

The Orchards at Gill Estates (Kerman, CA)

INITIAL STUDY – MITIGATED NEGATIVE DECLARATION

PUBLIC REVIEW DRAFT

May 2025



City of Kerman
Community Development Department
850 South Madera Avenue
Kerman, CA 93630



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1 INTRODUCTION

Precision Civil Engineering, Inc. (PCE) has prepared this Initial Study/Mitigated Negative Declaration (IS/MND) on behalf of the City of Kerman (City) to address the environmental effects of the proposed The Orchards at Gill Estates (“Project” or “proposed Project”). This document has been prepared in accordance with the California Environmental Quality Act (CEQA), Public Resources Code *Section 21000 et. seq.* The City of Kerman is the Lead Agency for this proposed Project. The site and the proposed Project are described in detail in **SECTION 2 ENVIRONMENTAL CHECKLIST FORM**.

1.1 Regulatory Information

An Initial Study (IS) is a document prepared by a lead agency to determine whether a project may have a significant effect on the environment. In accordance with California Code of Regulations Title 14 (Chapter 3, *Section 15000*, et seq.), also known as the CEQA Guidelines, *Section 15064 (a)(1)* states that an environmental impact report (EIR) must be prepared if there is substantial evidence in light of the whole record that the proposed project under review may have a significant effect on the environment and should be further analyzed to determine mitigation measures or project alternatives that might avoid or reduce project impacts to less than significant levels.

A negative declaration (ND) may be prepared instead if the lead agency finds that there is no substantial evidence in light of the whole record that the project may have a significant effect on the environment. An ND is a written statement describing the reasons why a proposed project, not otherwise exempt from CEQA, would not have a significant effect on the environment and, therefore, why it would not require the preparation of an EIR (CEQA Guidelines *Section 15371*). According to CEQA Guidelines *Section 15070*, a ND or mitigated ND shall be prepared for a project subject to CEQA when either:

a. The IS shows there is no substantial evidence, in light of the whole record before the agency, that the proposed project may have a significant effect on the environment, or

b. The IS identified potentially significant effects, but:

- 1. Revisions in the project plans or proposals made by or agreed to by the applicant before the proposed mitigated negative declaration and initial study are released for public review would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur is prepared, and*
- 2. There is no substantial evidence, in light of the whole record before the agency, that the proposed project as revised may have a significant effect on the environment.*

1.2 Document Format

This IS/MND contains five (5) chapters plus appendices. **SECTION 1 INTRODUCTION** provides bases of the IS/MND’s regulatory information and an overview of the Project. **SECTION 2 ENVIRONMENTAL CHECKLIST FORM** provides a detailed description of Project components. **SECTION 3 DETERMINATION** concludes that based on the Initial Study, a mitigated negative declaration will be prepared, identifies the environmental factors potentially affected based on the analyses contained in this IS, and concludes with the Lead Agency’s determination based upon those analyses. **SECTION 4 EVALUATION OF ENVIRONMENTAL IMPACTS** presents the CEQA checklist and environmental analyses for all impact areas and the mandatory findings of significance. A brief discussion of the reasons why the Project impact is anticipated to be potentially significant, less than significant with mitigation incorporated, less than significant, or why no impacts are expected is included. **SECTION 5 MITIGATION MONITORING AND**



REPORTING PROGRAM presents the mitigation measures recommended in the IS/MND for the Project. The Air Quality, Greenhouse Gas Emissions, and Energy Technical Memorandum (**Appendix A**), Biological Resource Assessment (**Appendix B**), CHRIS Search Record (**Appendix C**), NAHC SLF Results Letter (**Appendix D**), Noise Assessment (**Appendix E**), VMT Analysis (**Appendix F**), and Phase I Environmental Site Assessment (**Appendix G**) are provided at the end of this document.



2 ENVIRONMENTAL CHECKLIST FORM

This section describes the components of the proposed Project in more detail, including Project location, Project objectives, and required Project approvals.

2.1 Project Title

The Orchards at Gill Estates (Annexation (ANX) 2023-03, Rezone/Prezone (REZ) 2023-03, General Plan Amendment (GPA) 2023-02, Tentative Parcel Map (TPM) 2024-01, and Tentative Subdivision Map (TSM) 2023-03)

2.2 Lead Agency Name and Address

City of Kerman
Community Development Department
850 South Madera Avenue
Kerman, CA 93630

2.3 Contact Person and Phone Number

Lead Agency

City of Kerman
Community Development Department
Jerry Jones, Community Development Director
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Applicant

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Attn: Steve Brar
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2.4 Study Prepared By

Precision Civil Engineering
1234 O Street
Fresno, CA 93721
(559) 449-4500

2.5 Project Location

The Project Area is in the jurisdiction of the County of Fresno, California. The area is located on the south side of West Nielson Avenue between North Madera Avenue and North Del Norte Avenue (**Figure 2-1**), consisting of two (2) parcels that total approximately 40 acres (**Figure 2-2**). The area is identified by the Fresno County Assessor as Assessor's Parcel Numbers (APNs) 020-120-06 and 020-120-03S. ¹ The site is a portion of Section 1, Township 14 South, Range 17 East, Mount Diablo Base and Meridian.

2.6 Latitude and Longitude

The centroid of the Project Area is 36.73979213330913, -120.06413862520061.

¹ As described in Section 2.12-2.3, proposed development is limited to "Parcel 1" of Tentative Parcel Map 2024-01.

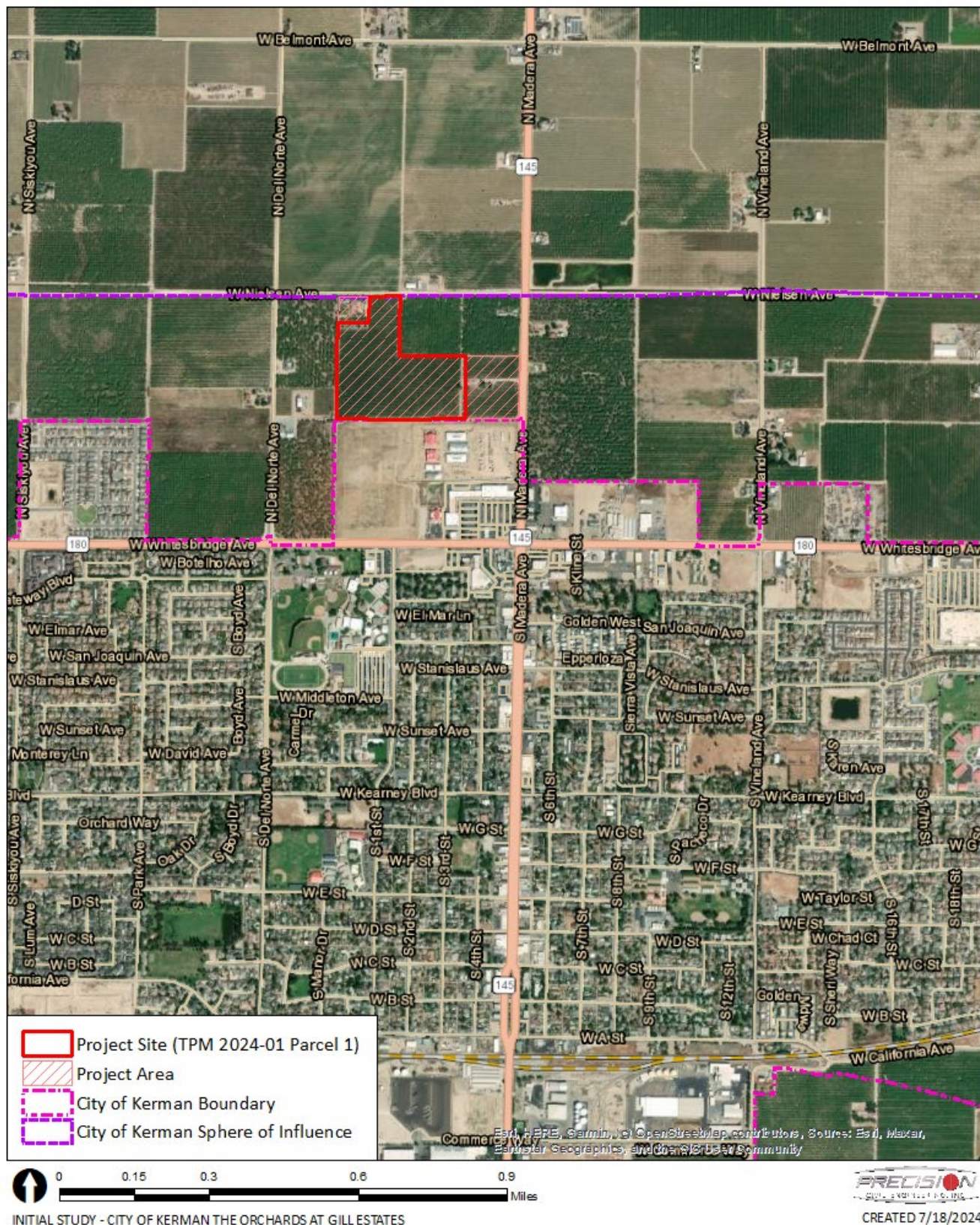


Figure 2-1 The Orchards at Gill Estates Project Location

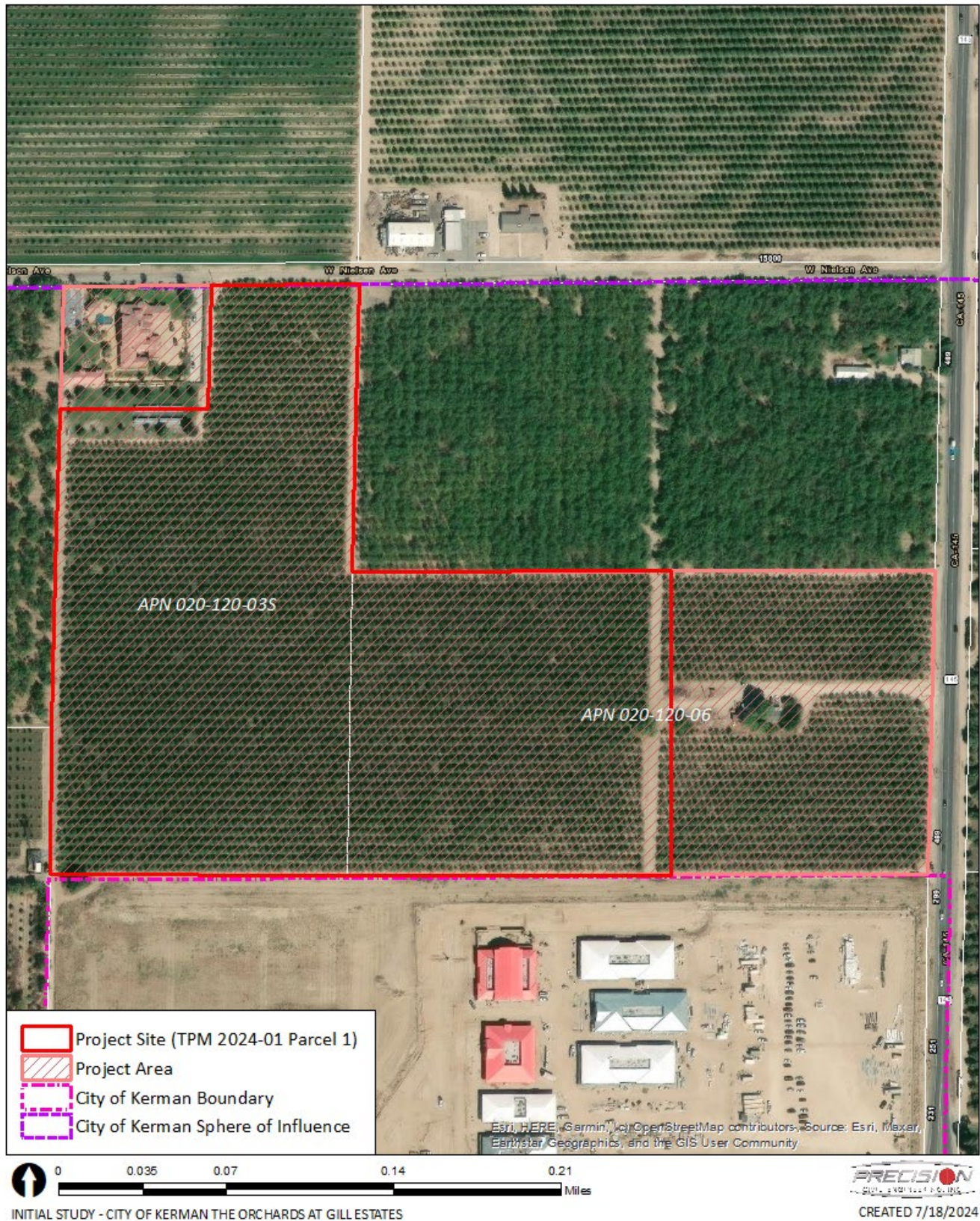


Figure 2-2 The Orchards at Gill Estates Project Aerial



2.7 General Plan Designation

The Project Area has a City of Kerman 2040 General Plan land use designation of MDR – Medium Density Residential (30.19 acres) and GC – General Commercial (9.64 acres) (**Figure 2-3**).

According to the General Plan, the MDR land use designation *“allows for residential development at a density of up to 12 units per gross acre. Development in this category could include a mix of single-family and multifamily residences, including duplexes, triplexes, fourplexes, and mobile homes.”* The MDR land use designation is compatible with the R-1-7, R-1-12, R-2, SD-R-5, SD-R-4.5, SD-R-3.5, PD-R-7, and PD-R-12 zoning districts. Typical uses of this land use designation include single-family detached dwellings, small-lot multifamily dwellings including duplexes, triplexes, fourplexes, and mobile homes, accessory dwelling units, and compatible public and quasi-public uses (e.g., churches, daycare centers, community centers, parks, and schools).

According to the General Plan, the GC land use designation identifies areas *“that are appropriate for shopping centers, retail uses, and offices. Development with this designation will have the following distinguishing features: landscaping, construction of off-street parking, regulated signs, and site plan review of new uses or extensive expansion of existing uses.”* The GC land use designation is compatible with the CG, CSP, and CS zoning districts. Typical uses of this land use designation include large retail stores and restaurants, personal service/repair, medical, and office uses. The maximum intensity permitted in the GC land use designation is 3.0 floor area ratio (FAR).

2.8 Zoning

The Project Area is outside City limits and located within the County of Fresno Agricultural Exclusive - 20 Acres (AE-20) and Limited Agricultural – 20 Acres (AL-20) zoning districts (**Figure 2-4**). Because the Project area is outside City limits, proposed development would require annexation and a pre-zone/rezone of the site to a zoning district consistent with the City of Kerman 2040 General Plan planned land use designation for the site. Parcels included in the annexation would also be pre-zoned to a zoning district consistent with the General Plan land use designation. Consistent zoning districts for the MDR land use designation are R-1-7, R-1-12, R-2, SD-R-5, SD-R-4.5, SD-R-3.5, PD-R-7, and PD-R-12. Consistent zoning districts for the GC land use designation are CG, CSP, and CS.

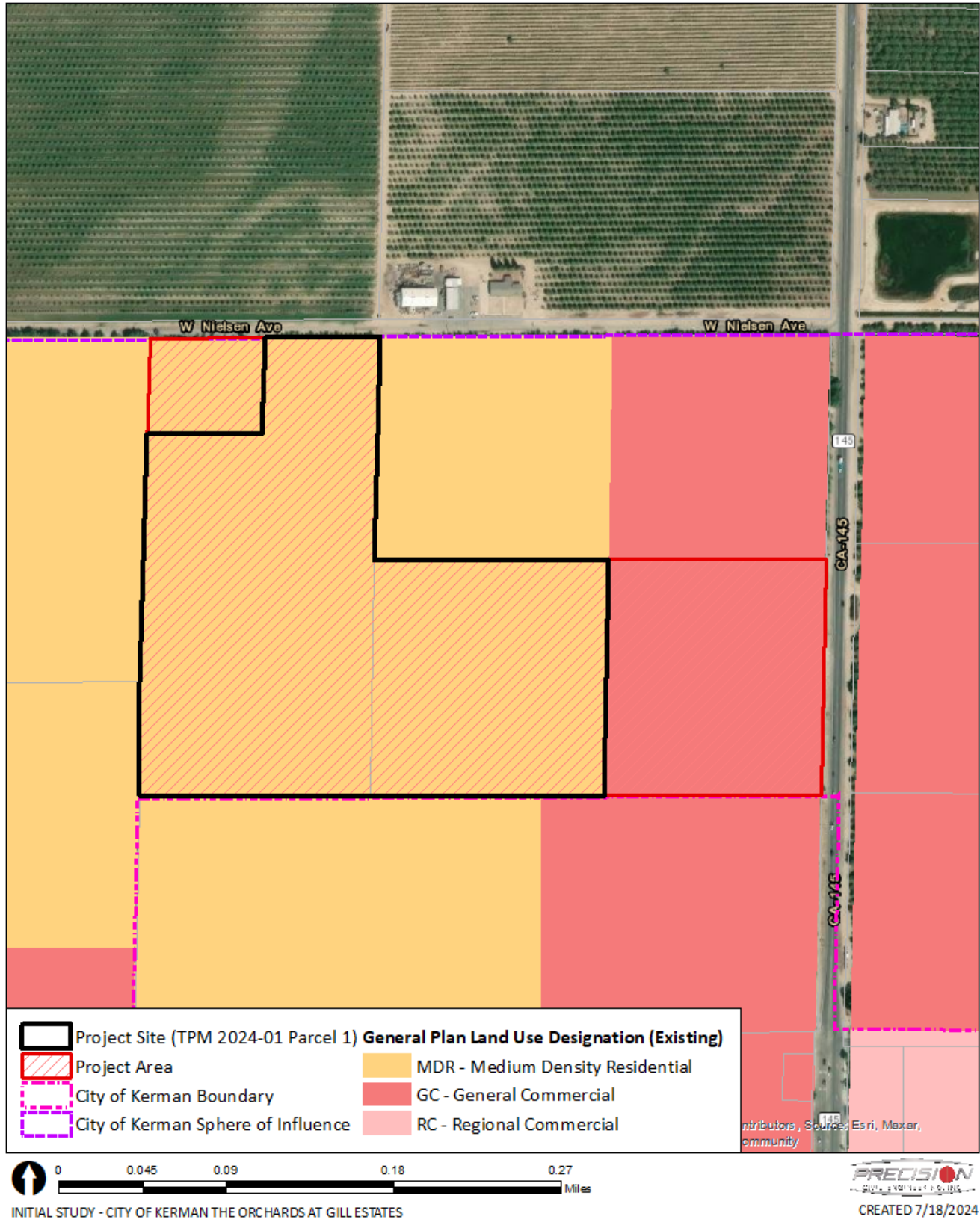


Figure 2-3 City of Kerman General Plan Land Use Designation Map (Existing)

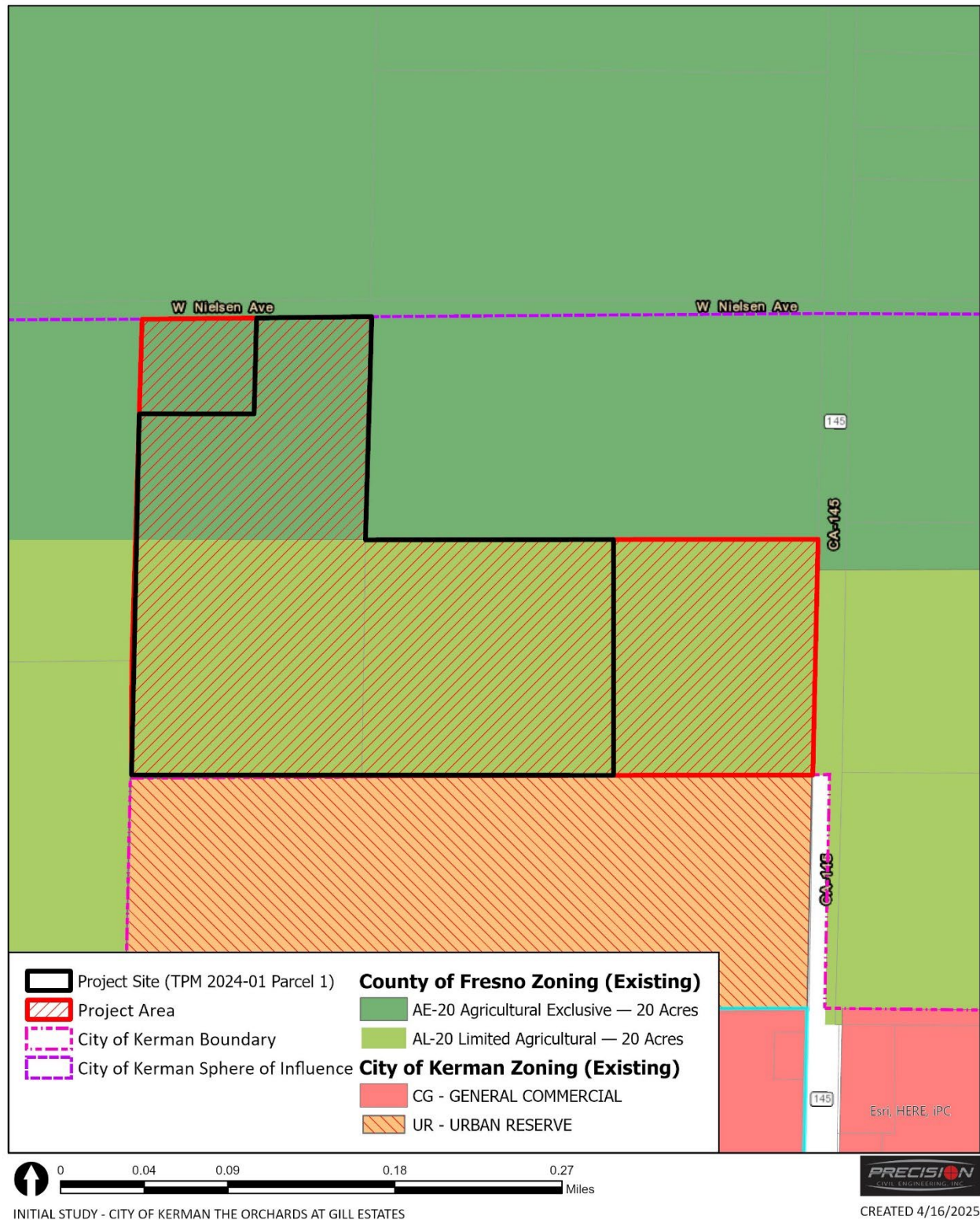


Figure 2-4 Zoning District Map (Existing)



2.9 Description of Project

Lifetime Communities (Applicant) proposed Annexation (ANX) 2023-03, Rezone/Prezone (REZ) 2023-03, General Plan Amendment (GPA) 2023-02, Tentative Parcel Map (TPM) 2024-01, and Tentative Subdivision Map (TSM) 2023-03 pertaining to two (2) parcels (APNs 020-120-06 and 020-120-03S) that total approximately 40 acres located on the south side of West Nielsen Avenue between North Madera Avenue and North Del Norte Avenue.

- ANX 2023-03 would annex two (2) parcels (APNs 020-120-06 and 020-120-03S) from the County of Fresno to the City of Kerman.
- GPA 2023-02 would amend the Kerman 2040 General Plan land use designation for portions of APN 020-120-06 from the General Commercial land use designation to the Mixed-Use land use designation (8.74 acres) and from General Commercial to Medium Density Residential (0.9 acres) (**Figure 2-5**).
- REZ 2023-03 would pre-zone the Medium Density Residential land use designation portion of the Project Area (30.39 acres) to the Smart Development Combining District – Residential – minimum 3,500 square feet (SD-R-3.5) zoning district and the Mixed-Use land use designation portion of the Project Area (8.74 acres) to the Mixed-Use zoning district. The proposed zoning districts would be consistent with the underlying planned land uses (**Figure 2-6**).
- TPM 2024-01 would split the Project Area into two (2) parcels and one (1) remainder, including a 28.35-acre “Parcel 1” that would accommodate TSM 2023-03 (“Project Site”), an 8.74-acre “Parcel 2” on the east portion of APN 020-120-06 with no development proposed at this time, and a 2.04-acre “Remainder” on the northwest corner with an existing single-family residence (**Figure 2-7**).
- TSM 2023-03 would subdivide Parcel 1 of TPM 2024-01 (28.35 acres) into 172 single-family lots (6.1 dwelling units per acre) that range in size from 3,690 square feet to 5,914 square feet, in addition to five (5) outlots. Outlot A (6,862 sf.) and Outlot B (5,040 sf.) are proposed along the south of the subdivision for public landscaping purposes. Outlot C (66,926 sf.) is proposed in the center of the subdivision as a park. Outlot D (2,280 sf.) is proposed along Nielsen Avenue for public landscaping purposes. Outlot E (34,217 sf.) is proposed on the northeast corner of the site as a stormwater basin. The Project also proposes an internal network of local streets and sidewalks with one (1) point of ingress/egress to Nielsen Avenue, one (1) point of ingress/egress to the northern property (APN 020-120-11), two (2) points of ingress/egress to the west, two (2) points of ingress/egress to Parcel 2, and one (1) point of ingress/egress to the south of the Project site. Currently, a road is being built along the southern boundary of the site that will provide access of the south ingress/egress to Madera Avenue.

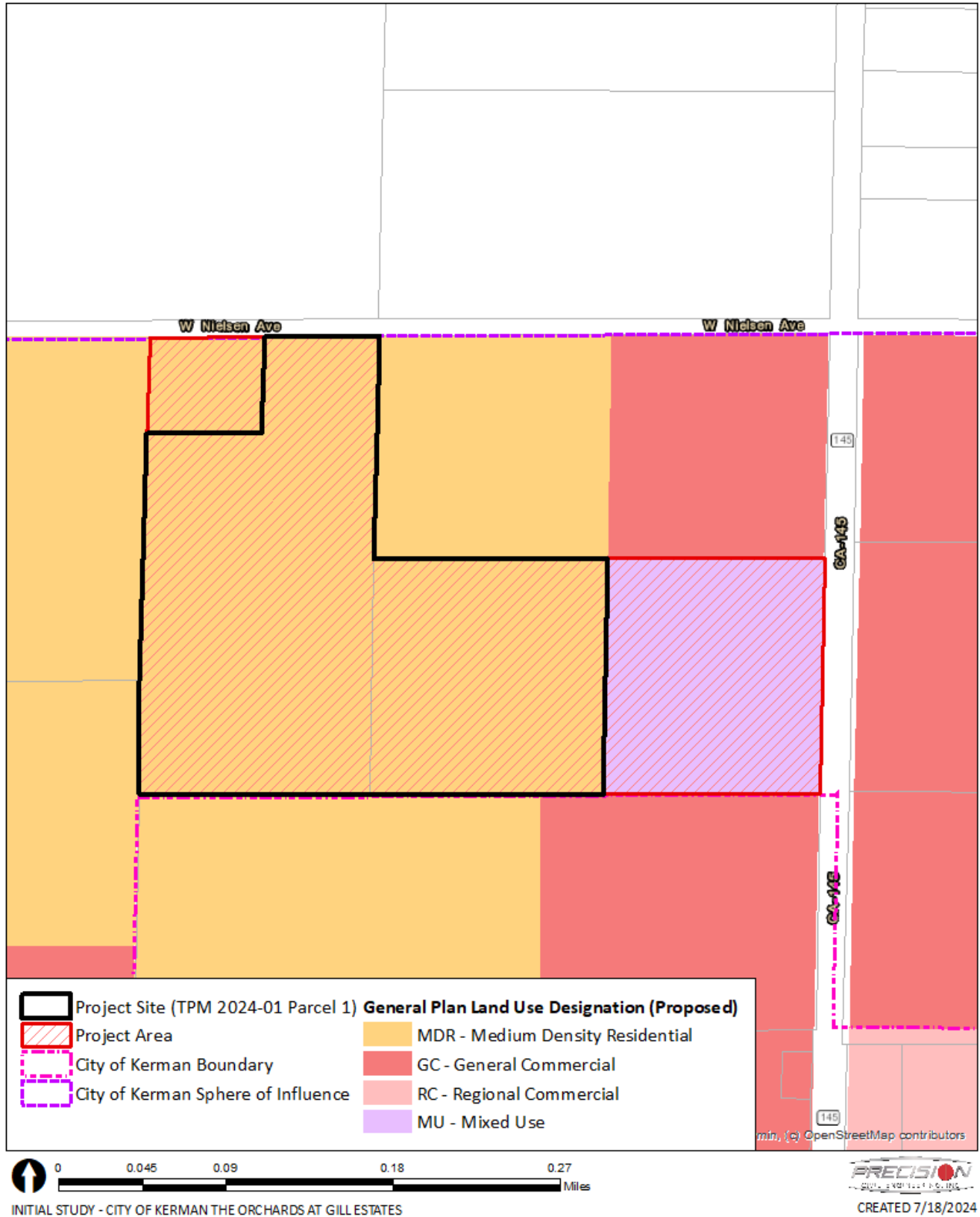


Figure 2-5 City of Kerman General Plan Land Use Designation Map (Proposed)

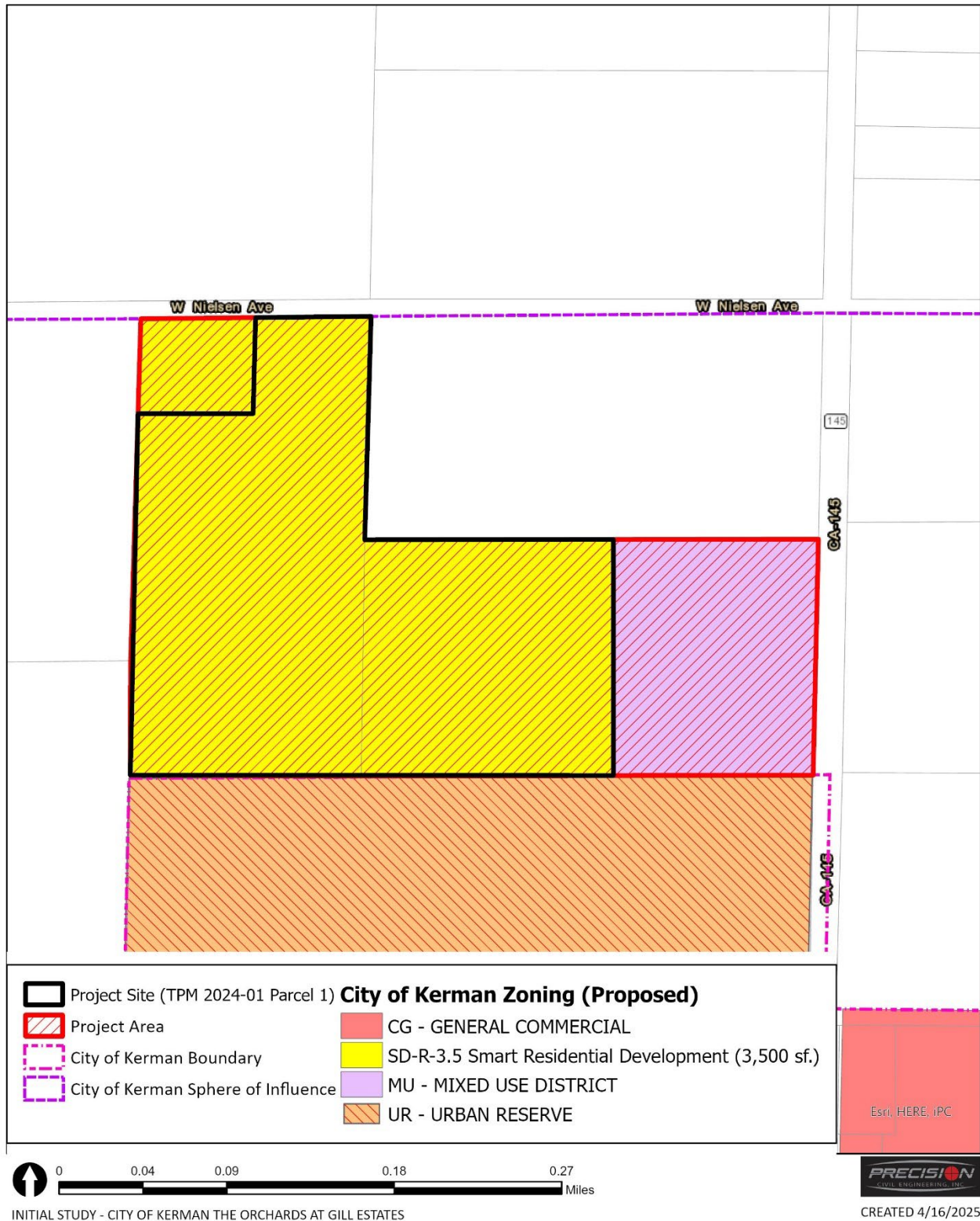


Figure 2-6 City of Kerman Zoning District Map (Proposed)







**PRELIMINARY UTILITY PLAN
FOR THE ORCHARDS AT GILL ESTATES**
PREPARED JUNE 6, 2023



Figure 2-9 Preliminary Utility Plan



2.10 Project Setting and Surrounding Land Uses

Project Setting

Historically, the parcels within the Project Area have been designated and operated as agricultural land. Before 1985, the Project Area has been in agricultural production (orchards or row crops). Most of the Project Area are currently in production as orchard and row crops. There is one (1) existing single-family residence and related structures (e.g., garage/shed) on the northwest corner of APN 020-120-03S and some structures for farm equipment at the center of APN 020-120-06.

Madera Avenue and Nielsen Avenue in proximity to the Project Area are paved, but do not currently have ultimate improvements; however, there is currently a street under construction along the south of the APN 020-120-06 which would include street improvements (i.e., curb, gutter, sidewalks, streetlights). The nearest roadway to the Project is North Madera Avenue located to the east of the Project Area adjacent to the parcel identified as APN 020-120-06 and West Nielsen Avenue located to the north of the Project Area adjacent to the parcel identified as APN 020-120-03S. Neither roadway is currently improved.

The parcels within the Project Area are relatively flat with a sandy loam soil type that is mostly well drained with more than 80-inch water table depth. The existing biotic site conditions and resources of these parcels can be defined primarily as ruderal and are highly disturbed due to agricultural production. There are several trees located around the existing structures on the site. No wetlands or water features are within or adjacent to the Project Area.

Surrounding Land Uses

As referenced in [Table 2-1](#), the Project Area is surrounded by agricultural land to the north, east, and west, and an elementary school and future school athletic facilities to the south. The properties to the west are planned for residential uses and properties to the east are planned for commercial uses within the City of Kerman Sphere of Influence (SOI). The properties to the south are planned for school and institutional uses within the City of Kerman City Limits. The properties to the north are zoned for agricultural use within the County of Fresno and reserved for urbanized uses as the City of Kerman SOI expands.

Table 2-1 Existing Uses, General Plan Designations, and Zoning districts of Surrounding Properties

Direction from the Project site	Existing Land Use	Planned Land Use	Zoning District
North	Agricultural	Urban Reserve (outside Kerman SOI)	AE-20 (County)
South	School	Schools/Institutional	UR – Urban Reserve
East	Agricultural	General Commercial	AE-20, AL-20 (County)
West	Agricultural	Medium Density Residential	AE-20, AL-20 (County)

2.11 Site Preparation

Site preparation would be limited to Parcel 1 of TPM 2024-01 (“Project Site”). Site preparation would include removal of the row crops as well as typical grading activities and minor excavation for installation of utility infrastructure for conveyance of water, sewer, stormwater, and irrigation. Site preparation, building, grading, encroachment, and site utilities permits would be subject to review and approval by the appropriate agency and/or department to ensure compliance with applicable codes and regulations. Compliance would be verified through the building permit and inspection process.



2.12 Project Construction and Phasing

Construction would be limited to Parcel 1 of TPM 2024-01 (“Project Site”). The Project phasing will be determined at the submission of the Final Map. No phasing is shown or proposed on the map at this time. Project phasing related to dates may change depending upon review and approval of the entitlement and building permits.

2.13 Project Components

This section describes the overall components of the Project, such as the proposed buildings, landscaping, vehicle and pedestrian circulation, and utilities. This section is limited to Parcel 1 of TPM 2024-01 (“Project Site”).

Site Layout and Elevations

As shown in **Figure 2-8**, the Project proposes the construction of 172 single-family lots (6.1 dwelling units per acre) that range in size from 3,690 square feet to 5,914 square feet, in addition to five (5) outlots for various purposes including public landscaping, parks, and a stormwater basin.

Building and Site Design Features

The Project would be built in accordance with all mandatory indoor water use requirements as outlined in the 2022 California Green Building Standards Code, Title 24, Part 11, Section 4.303 – Indoor Water Use and verified through the building permit process. As a residential development that contains plumbing fixtures and fittings, the Project shall comply with water-conserving measures for water closets, urinals, showerheads, and faucets. The Project proposes the use of low flow plumbing fixtures with flow rates that comply with requirements. In addition, as a residential development, the Project would be required to install submeters to measure water usage of individual units in accordance with the California Plumbing Code.

The Project would also be built in accordance with all mandatory outdoor water use requirements as outlined in the 2022 California Green Building Standards Code, Title 24, Part 11, Section 4.304 – Outdoor Water Use and verified through the building permit process. As a residential development that contains landscaping including trees, shrubs, ground cover/annual plants, and lawn, the Project shall comply with the updated Model Water Efficient Landscape Ordinance (MWELO) (California Code of Regulations, Title 23, Chapter 2.7, Division 2), as implemented and enforced through the building permit process.

Site Circulation and Parking

Access to the site would be provided by one (1) point of ingress/egress from West Nielsen Avenue and one (1) point of ingress/egress to the south, which connects to a roadway that is being built along the southern boundary of the site. This new roadway along the southern boundary will provide access to Madera Avenue. The Project also provides five (5) stub streets connections to future development of the surrounding area, including two (2) points of ingress/egress to the west (i.e., APNs 020-120-17S and 020-120-28S), two (2) points of ingress/egress to the east (i.e., TPM 2024-01 Parcel 2), and one (1) point of ingress/egress to the north (i.e., APN 020-120-11).

Internal circulation within the site would be provided by public streets. All roadways within the proposed subdivision, including the West Nielsen Avenue and south entrances, would be designed in accordance with City Standards and would have curb, gutter, and sidewalk. Outlots A, B, and D as shown along West Nielsen Avenue and south future road frontage are proposed to be dedicated to the City of Kerman for rights-of-way purposes. The rights-of-way would be improved in accordance with City standards. Turning radii are also proposed within the



subdivision per North Central Fire Protection District and City Standards for emergency access and solid waste vehicle access.

The project would be conditioned to meet the parking requirements of the Kerman Municipal Code which requires a minimum of two (2) covered parking spaces for each single-family detached dwelling unit. Additional parking would be allowed along the internal public streets.

Open Space and Landscaping

Private open space is proposed for each single-family lot, consisting of front, side, and rear yards. Common open space is proposed on Outlot C, which is approximately 66,926 square foot that would be dedicated for parks purposes. Landscaping is proposed as part of the roadway design in accordance with City Standards.

Public Services and Utilities

The Project would be annexed into City limits and thus, would be required to connect to water, wastewater, and stormwater services. Natural gas, electricity, telecommunications, and solid waste services are provided by private companies. In addition, the Project would be subject to fees for the construction, acquisition, and improvements for public services including but not limited to fire protection services, police protection services, and schools. Water, wastewater, and stormwater services are described below. **Figure 2-9** shows the proposed location of water, sewer, and drainage pipelines throughout the Project site.

Domestic water service would be provided to the site through proposed 8-inch and 12-inch water mains located throughout the site. These pipelines would connect to the City system through a connection point in the new street to the south of the Project Site.

Sanitary sewer service would be provided to the site through 6-inch and 8-inch sewer mains located throughout the site. These pipelines would connect to the City system through a connection point in the new street to the south of the Project Site.

A drainage basin is proposed on-site in Outlot E of the subdivision on a portion of the parcel identified as APN 020-120-03S. The basin was adequately sized to accommodate stormwater runoff from the site. Based on the proposed site grading, stormwater runoff will generally drain toward the basin through storm drains ranging 18-inch to 42-inch.

2.14 Required Project Approvals

The City of Kerman requires the following review, permits, and/or approvals for the proposed Project. Other approvals not listed below may be required as identified through the entitlement process.

- Annexation
- Pre-Zone/Rezone
- General Plan Amendment
- Tentative Tract Map
- Tentative Subdivision Map
- Development Plan
- Building Permit
- Grading Permit



- Encroachment Permit
- Site Utilities Permit
- Sign Permit

In addition, other agencies may have the authority to issue permits prior to implementation of the Project including but not limited to: North Central Fire Protection District, Fresno County Department of Public Health, Fresno Local Agency Formation Commission, San Joaquin Valley Air Pollution Control District, Pacific Gas & Electric, Sebastian Corp., Fresno Irrigation District, Caltrans, and California Regional Water Quality Control Board.

2.15 Technical Studies

The analysis of the Project throughout this Initial Study relied in part on the technical studies listed below prepared for the Project, as well as other sources, including, but not limited to, City of Kerman 2040 General Plan Environmental Impact Report (EIR) SCH No. 2019049018 prepared for the City of Kerman 2040 General Plan Update.

- **Appendix A:** Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum
- **Appendix B:** Biological Resource Assessment
- **Appendix C:** CHRIS Search Results
- **Appendix D:** NAHC Letter
- **Appendix E:** Noise Assessment
- **Appendix F:** VMT Analysis
- **Appendix G:** Phase I Environmental Site Assessment

2.16 Consultation with California Native American Tribes

The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the CEQA Guidelines. Pursuant to PRC *Section 21080.3.1*, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC *Section 21074(a)(1-2)*). According to the most recent census data, California is home to 109 currently recognized Indian tribes.

Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See PRC *Section 21083.3.2*.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC *Section 5097.96* and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC *Section 21082.3(c)* contains provisions specific to confidentiality.

A consultation list of tribes with traditional lands or cultural places located within Fresno County was requested and received from the California Native American Heritage Commission (NAHC) on February 28, 2024. The listed tribes



include Big Sandy Rancheria of Western Mono Indians, Cold Springs Rancheria of Mono Indians, Dumna Wo-Wah Tribal Government, Kings River Choinumni Farm Tribe, North Valley Yokuts Tribe, Table Mountain Rancheria, Tule River Indian Tribe, and Wuksache Indian Tribe/Eshom Valley Band. The NAHC also conducted a Sacred Lands File (SFL) search which was negative.

The City of Kerman conducted formal tribal consultation for the proposed Project pursuant to AB 52 (Chapter 532, Statutes 2014) and SB 18 (Chapter 905, Statutes 2004) on March 8, 2024, utilizing the consultation list of tribes received from the NAHC. The same tribes listed above were included in the formal consultation. Consultation for AB 52 ended on April 19, 2024, and consultation for SB 18 ended on June 6, 2024. Santa Rosa Rancheria Tachi Yokut Tribe and Table Mountain Rancheria responded, declining participation of tribal consultation.



3 DETERMINATION

3.1 Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this Project, as indicated by the checklist on the following pages.

- | | |
|---|--|
| <input type="checkbox"/> <i>Aesthetics</i> | <input type="checkbox"/> <i>Land Use Planning</i> |
| <input checked="" type="checkbox"/> <i>Agriculture and Forestry Resources</i> | <input type="checkbox"/> <i>Mineral Resources</i> |
| <input type="checkbox"/> <i>Air Quality</i> | <input checked="" type="checkbox"/> <i>Noise</i> |
| <input checked="" type="checkbox"/> <i>Biological Resources</i> | <input type="checkbox"/> <i>Population and Housing</i> |
| <input checked="" type="checkbox"/> <i>Cultural Resources</i> | <input type="checkbox"/> <i>Public Services</i> |
| <input type="checkbox"/> <i>Energy</i> | <input type="checkbox"/> <i>Recreation</i> |
| <input checked="" type="checkbox"/> <i>Geology and Soils</i> | <input type="checkbox"/> <i>Transportation</i> |
| <input checked="" type="checkbox"/> <i>Greenhouse Gas Emissions</i> | <input checked="" type="checkbox"/> <i>Tribal and Cultural Resources</i> |
| <input checked="" type="checkbox"/> <i>Hazards and Hazardous Materials</i> | <input type="checkbox"/> <i>Utilities and Service Systems</i> |
| <input type="checkbox"/> <i>Hydrology and Water Quality</i> | <input type="checkbox"/> <i>Wildfire</i> |

For purposes of this Initial Study, the following answers have the corresponding meanings:

“No Impact” means the specific impact category does not apply to the Project, or that the record sufficiently demonstrates that Project specific factors or general standards applicable to the Project will result in no impact for the threshold under consideration.

“Less Than Significant Impact” means there is an impact related to the threshold under consideration, but that impact is less than significant.

“Less Than Significant with Mitigation Incorporation” means there is a potentially significant impact related to the threshold under consideration, however, with the mitigation incorporated into the Project, the impact is less than significant. For purposes of this Initial Study “mitigation incorporated into the Project” means mitigation originally described in the GP PEIR and applied to an individual Project, as well as mitigation developed specifically for an individual Project.

“Potentially Significant Impact” means there is substantial evidence that an effect may be significant related to the threshold under consideration.

3.2 Determination

On the basis of this initial evaluation (to be completed by the Lead Agency):

- ☐ I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.



- ☐ I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT (EIR) is required.
- ☐ I find that the proposed Project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Approved By:

Jerry Jones, Community Development Director
City of Kerman, Community Development Department

6/10/25
Date



4 EVALUATION OF ENVIRONMENTAL IMPACTS

4.1 AESTHETICS

Except as provided in Public Resources Code <i>Section 21099</i> , would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				X
b) Substantially damage scenic resources, including, but not limited to, trees, rock out-croppings, and historic buildings within a state scenic highway?				X
c) In non-urbanized areas, substantially degrade the existing visual character or quality public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?			X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			X	

4.1.1 Environmental Setting

Historically, the Project Area has been designated and operated as agricultural land. Before 1985, the Project Area has been in agricultural production (orchards or row crops). Most of the Project Area are currently in production as orchard and row crops. There is one (1) existing single-family residence and related structures (e.g., garage/shed) on the northwest corner of APN 020-120-03S and some structures for farm equipment at the center of APN 020-120-06.

Madera Avenue and Nielsen Avenue in proximity of the Project Area are paved, but do not currently have ultimate improvements; however, there is currently a street under construction along the south of the APN 020-120-06 which would include street improvements (i.e., curb, gutter, sidewalks, streetlights). The nearest roadway to the Project is North Madera Avenue located to the east of the Project Area adjacent to the parcel identified as APN 020-120-06 and West Nielsen Avenue located to the north of the Project Area adjacent to the parcel identified as APN 020-120-03S. Neither roadway is currently improved.



The parcels within the Project Area are relatively flat with a sandy loam soil type that is mostly well drained with more than 80-inch water table depth. The existing biotic site conditions and resources of these parcels can be defined primarily as ruderal and are highly disturbed due to agricultural production. There are several trees located around the existing structures on the site. No wetlands or water features are within or adjacent to the Project Area.

As referenced in **Table 2-1**, the Project Area is surrounded by agricultural land to the north, east, and west, and an elementary school and future school athletic facilities to the south. The properties to the west are planned for residential uses and properties to the east are planned for commercial uses within the City of Kerman Sphere of Influence (SOI). The properties to the south are planned for school and institutional uses within the City of Kerman City Limits. The properties to the north are zoned for agricultural uses within the County of Fresno and reserved for urbanized uses as the City of Kerman SOI expands.

General Plan

The Kerman General Plan Conservation, Open Space, and Recreation Element helps to protect natural resources and habitats as well as enhancing important attributes to provide recreation for its residents. The General Plan does not identify any scenic vistas or corridors. General Plan policies applicable to the visual appearance and character of the City include:

Policy COS-1.1: Visual Resources Protection. *The City shall reserve the existing scenic qualities of the community by regulating entryways, view preservation, and landscaping.*

Policy COS-1.2: Night Skies Protection. *The City shall protect dark/night skies by encouraging measures that direct outdoor lighting downward and away from open space areas, without compromising the safety and security of the community.*

Policy COS-1.4: Landscaping Buffers. *The City shall integrate landscaping buffers that contribute to neighborhood character to increase safety at the park, and to reduce negative impacts on adjacent residences.*

City of Kerman Residential Design Guidelines

The City of Kerman Residential Design Guidelines provides developers with a clear understanding of the City's expectations for new residential development in the City.² The Residential Design Guidelines are used as the framework for evaluation and approval of residential projects. Section 2.2.13 guides the design, location, and level of illumination from lighting for neighborhood streets, alleys, parks, sidewalks, garage, etc., to conserve energy, prevent overly bright lighting and glare, and to ensure that the design blends into the landscape.

City of Kerman Municipal Code

City of Kerman Municipal Code (KMC) requires exterior lighting to be shown on the site plan for the submittal of a site plan review application (*KMC Section 17.14.030*). The direction of illumination, type of luminaire, and hooding or shielding devices needs to be shown for all exterior lighting. The approval of the site plan requires a finding on lighting, including:

² City of Kerman. 2014. City of Kerman Residential Design Guidelines. Accessed July 25, 2023, <https://cityofkerman.net/wp-content/uploads/2014/05/1KermanResidentialGuidelines-Nov192014.pdf>



Section 17.14.040 – Action by the city planner

C. The proposed lighting is so arranged as to deflect the light away from adjoining properties;

D. The proposed signs will not by size, location, or lighting interfere with traffic or limit visibility;

Additionally, the Smart Development Combining District (KMC Section 17.58.060(F)(6)) requires on-site common open space to be centrally located to promote visibility from surrounding units.

City of Kerman Standard Construction Details

The City's Standard Construction Details regulate the design and construction of streetlight and streetlight placement on local streets, collectors, cul-de-sacs, and divided arterial and expressway streets. These lighting standards ensure that all work conforms to the applicable sections of the specifications entitled "Standard Specifications, State of California, Business and Transportation Agency, Department of Transportation" and in accordance with the National Electrical Code. The luminaire and design of the lighting also prevents substantial light and glare. Decorative streetlights are also regulated to ensure the use of LED luminaire, numbering, materials, and design of all types of light.

California Scenic Highway Program

The California Scenic Highway Program was established in 1963 with the purpose of protecting and enhancing the natural scenic beauty of California highways and adjacent corridors, through special conservation treatment. A highway may be designated scenic depending upon how much of the natural landscape can be seen by travelers, the scenic quality of the landscape, and the extent to which development intrudes upon the traveler's enjoyment of the view. There are no officially designated State Scenic Highways in the City of Kerman, inclusive of the Project site. The closest eligible State Scenic Highway is State Route (SR) 168 in the City of Clovis, located approximately 18.5 miles northeast of the Project site.³

4.1.2 Impact Assessment

Except as provided in PRC Section 21099, would the Project:

a) Have a substantial adverse effect on a scenic vista?

No Impact. The Project Area is undeveloped and is surrounded by a school under construction to the south and agricultural lands to the north, east, and west. The site is generally flat and there are no long-range scenic views (e.g., mountain ranges) that can be seen from the Project Area due to row crops directly east of the site. Furthermore, the General Plan does not identify or designate scenic vistas or corridors within the general vicinity of the Project Area. As a result, the Project would not adversely affect scenic vistas and no impact would occur because of the Project.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

³ Caltrans. California State Scenic Highway System Map. Accessed on July 19, 2024, <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>



No Impact. According to the California State Scenic Highway Program, there are no officially designated State Scenic Highways in the City of Kerman, inclusive of the Project Area. As such, the proposed Project would not damage scenic resources, including trees, rock out-croppings, and historic buildings within a state scenic highway and no impact would occur.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact. The Project Area is adjacent to urbanized land under development. Project parcels are currently under agricultural operations with few public access points that would have a view of the site since the site can only be seen from West Nielsen Avenue and North Madera Avenue. In addition, through the entitlement process, development would be subject to compliance with applicable policies and regulations that govern scenic quality including but not limited to the General Plan, Residential Design Guidelines, Kerman Municipal Code, and California Building Code. Compliance would ensure that future development of the site would not conflict with applicable zoning and other regulations governing scenic quality. Therefore, a less than significant impact would occur.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant Impact. Generally, lighting impacts are associated with artificial lighting in evening hours either through interior lighting from windows or exterior lighting (e.g., street lighting, parking lot lighting, landscape lighting, cars, and trucks). Development of the Project site would incrementally increase the amount of light from streetlights, exterior lighting, and vehicular headlights. Such sources could create adverse effects on day or nighttime views in the area.

Project construction would also introduce light and glare resulting from construction activities such as construction equipment traversing the site that could adversely affect day or nighttime views. Although construction activities are anticipated to occur primarily during daylight hours, it is possible that some activities could occur during dusk or early evening hours (KMC **Section 9.26.020** permits construction work to take place between 7:00 am and 10:00 pm on any day for work that is accomplished pursuant to a building permit). Construction during these time periods could result in light and glare from construction vehicles or equipment. However, construction would occur primarily during daylight hours and would be temporary in nature. Once construction is completed, any light and glare from these activities would cease to occur.

Once developed, the Project would be required to comply with the applicable General Plan policies and the enforceable requirements and restrictions contained in the KMC intended to prevent light and glare impacts (See **Environmental Setting**). Further, compliance with Title 24 lighting requirements as verified through the Building Permit process would reduce impacts related to nighttime light. The lighting requirements cover outdoor spaces including regulations for mounted luminaires (i.e., high efficacy, motion sensor controlled, time clocks, energy management control systems, etc.). As such, conditions imposed on the Project by the City pursuant to the General Plan, Kerman Municipal Code, and Title 24 would result in a less than significant impact.



4.1.3 Mitigation Measures

None required.



4.2 AGRICULTURE AND FORESTRY RESOURCES

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?			X	
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?		X		
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				X
d) Result in the loss of forest land or conversion of forest land to non-forest use?				X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?			X	

4.2.1 Environmental Setting

Historically, the Project Area has been designated and operated as agricultural land. Before 1985, the Project Area has been in agricultural production (orchards or row crops). Most of the Project Area are currently in production as orchard and row crops. There is one (1) existing single-family residence and related structures (e.g., garage/shed) on the northwest corner of APN 020-120-03S and some structures for farm equipment at the center of APN 020-120-06. The Project Area is planned for residential and commercial use within Kerman's Sphere of Influence (SOI).

Farmland Monitoring and Mapping Program

The California Department of Conservation manages the Farmland Mapping and Monitoring Program (FMMP) that provides maps and data for analyzing land use impacts to farmland. The FMMP produces the Important Farmland Finder as a resource map that shows quality (soils) and land use information. Agricultural land is rated according to



soil quality and irrigation status, in addition to many other physical and chemical characteristics. The highest quality land is called “Prime Farmland” which is defined by the FMMP as *“farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.”*⁴ Maps are updated every two years. According to the FMMP, California Important Farmland Finder, the Project Area is primarily classified as “Prime Farmland” with areas of “Farmland of Statewide Importance” as defined below.⁵ **Figure 4-1** shows the farmland type classification within the Project Area. **Table 4-1** shows the acreage of each farmland type on the Project Area.

- **Prime Farmland (P):** Farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.
- **Farmland of Statewide Importance (S):** Farmland similar to Prime Farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.

Table 4-1 Farmland Type in the Project Area

	Project Site	Annexation area (Project site not included)	Total
Prime Farmland	22.87	10.75	33.62
Farmland of Statewide Importance	5.48	0.03	5.51

California Land Conservation Act

The California Land Conservation Act of 1965 (i.e., the Williamson Act) allows local governments to enter contracts with private landowners to restrict parcels of land for agricultural or open space uses. In return, property tax assessments of the restricted parcels are lower than full market value since the restricted parcels are assessed according to their restricted use rather than their development potential free of such restriction. The minimum initial term of a Williamson Act contract is 10 years and automatically renews annually upon its anniversary date; as such, the contract length is essentially indefinite unless appropriately cancelled. The Project Area is not subject to the Williamson Act

General Plan

The General Plan established goals, policies, and implementation program regarding the conservation of agricultural land within the city’s SOI, as listed below.

Goal LU-4: *To protect agricultural resources in Kerman, particularly prime agricultural land.*

⁴ California Department of Conservation. Important Farmland Categories. Accessed on July 22, 2024, <https://www.conservation.ca.gov/dlrp/fmmp/Pages/Important-Farmland-Categories.aspx>

⁵ California Department of Conservation. (2018). California Important Farmland Finder. Accessed on July 22, 2024, <https://maps.conservation.ca.gov/DLRP/CIFF/>



Policy LU-4.1 Agricultural Land Preservation. The City shall preserve and protect agricultural lands by directing development to areas within City limits that are designated for urban-level development, and away from agriculturally designated land to preserve open space and agricultural areas.

Policy LU-4.2 Agricultural Conservation Easements. The City shall consider purchasing agricultural conservation easements to mitigate the loss of agricultural land to urban development within the SOI. These easements must be on land of at least equal quality and size to the land being developed.

Policy LU-4.3 Agricultural Zoning within SOI. The City shall continue to encourage Fresno County to apply large-lot agricultural zoning (20-acre minimum) to unincorporated land within Kerman's Sphere of Influence.

Policy LU-4.5 Right to Farm Disclosure. The City shall require that property owners and applicants within 1,000 feet of agricultural land or agricultural operations sign and record a deed of notification to document that they were informed of the potential agricultural operations and agricultural conditions in the area.

Implementation Program H: Agricultural Mitigation Program. The City shall develop an Agricultural Mitigation Program to mitigate the loss of prime agricultural land to urban development within the SOI. This program shall be consistent with the California Department of Conservation's recommendations for the development of an Agricultural Mitigation Program to mitigate for the loss of prime agricultural land at a ratio of 1: 1.

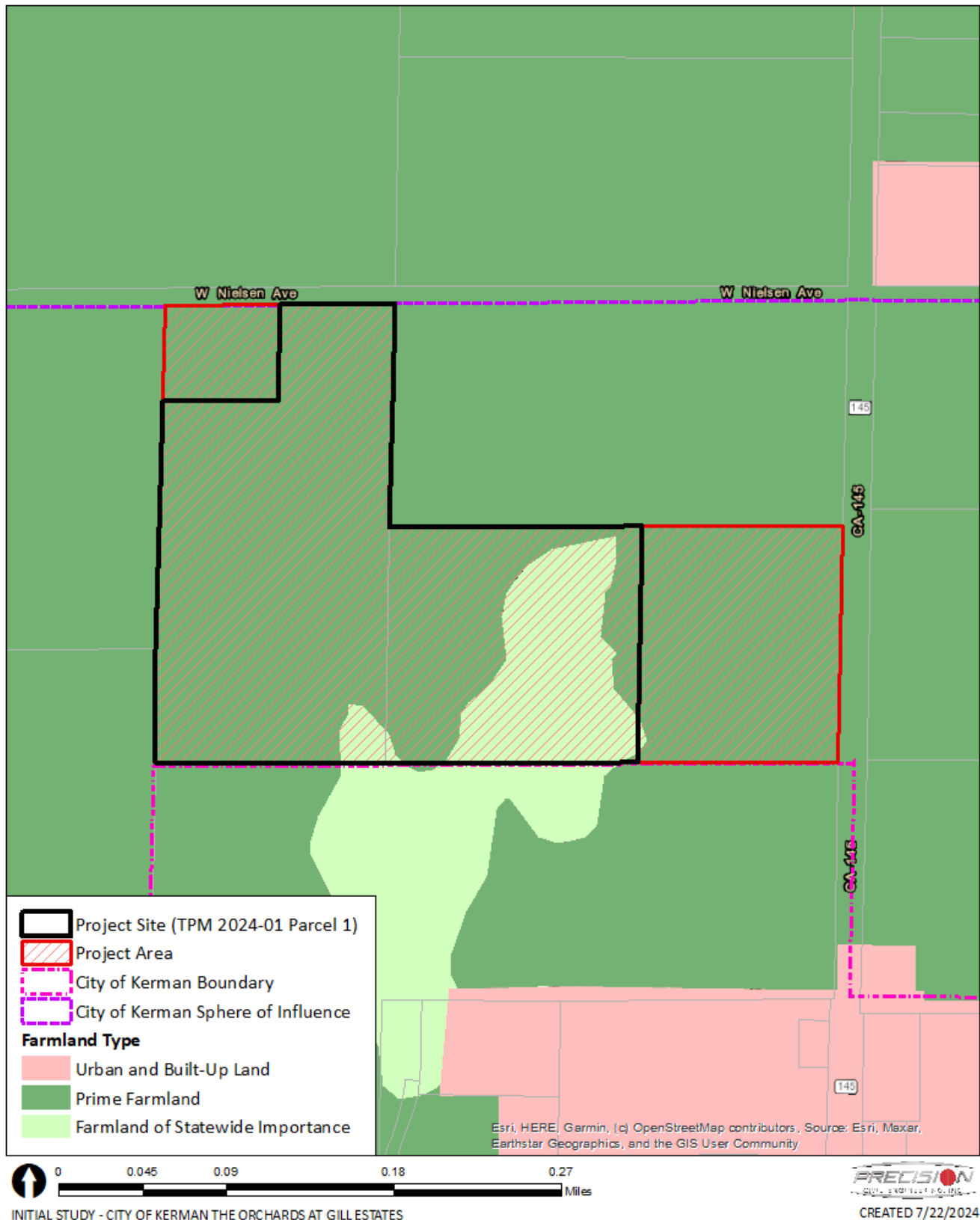


Figure 4-1 Farmland Type



4.2.2 Impact Assessment

Would the Project:

- a) *Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

Less than Significant Impact. According to the FMMP, California Important Farmland Finder, the Project Area is designated as “Prime Farmland” and “Farmland of Statewide Importance.” **Table 4-1** shows the acreage of each farmland type on the Project site and within the annexation area. The site is located within the SOI with a residential and commercial land use designation and would be amended to a residential and mixed-use land use designation and pre-zoned to zoning districts consistent with the land use designation. Therefore, development of the Project would convert Prime Farmland and Farmland of Statewide Importance to a non-agricultural use.

While the Project would result in the conversion of agricultural lands to a non-agricultural use, this conversion was evaluated under the Kerman General Plan Update EIR and related document titled Facts, Findings, and Statement of Overriding Considerations Regarding the Environmental Effects from the Environmental Impact Report. According to this document, “The 2040 General Plan land use diagram keeps the expanded areas designated for agriculture consistent with the current Fresno County General Plan agricultural designation and encourages future growth to occur within or adjacent to city limits and not extend outside the SOI. This greenbelt would provide a buffer between the residential, commercial, and industrial development within the city limits and preserve the existing agricultural land adjacent to and beyond the SOI to maintain agricultural lands and rural character of the city.”

In addition to this, the Findings of Fact also include the following analysis related to agricultural uses:

“The 2040 General Plan would result in changes to the existing land use designations by allowing the conversion of existing Prime Farmland, Unique Farmland and Farmland of Statewide Importance, specifically within the Sphere of Influence (SOI) to be converted to a mix of land uses, primarily for residential, industrial, or office use and would establish an urban reserve as shown in the 2040 General Plan Land Use Map in Section 2, Project Description, Figure 2-4. Provision of additional land adjacent to the City of Kerman for urban uses provides for orderly urban development and reduces the pressure on converting agricultural lands within more rural Fresno County to urban uses, which would have a greater impact on commercial agricultural operations in the region. Nevertheless, buildout of the 2040 General Plan would result in the loss of agricultural lands as indicated by the FMMP. Implementation of an Agricultural Mitigation Program to mitigate the loss of agricultural land to urban development within the SOI by preserving an equivalent amount and type of agricultural land would offset this impact.

By design, the 2040 General Plan would focus future development in underdeveloped areas and prioritize infill development where there is sufficient infrastructure capacity and public services. One of the themes of the 2040 General Plan is to have agricultural farming practices and urban uses exist harmoniously with conflicts limited through buffers at the City’s edge. The 2040 General Plan policies that would protect agricultural resources, particularly prime agricultural land, from premature future development are Goal LU-4 and Policies LU-4.1 to LU-4.4. The Conservation, Open Space, Parks and Recreation Element of the 2040 General Plan would provide conservation and protection of natural resources for agricultural use (see Goal COS-4 and Policies COS-4.4 and COS 4.7), the Economic Development Element would support and expand the agricultural industry and related tourism



(See Goal ED-2, and Policies ED-2.1 through ED-2.5); while the Land Use Element is designed to protect the continued operation of agricultural lands in and around Kerman (see Goal LU-3 and Policies LU-3.1 to LU-3.5, and Goal LU-4 and Policies LU-4.1 to LU-4.4).

Full buildout under the 2040 General Plan would result in the conversion of existing agricultural uses in the Planning Area to non-agricultural uses. Impacts would be potentially significant, but with implementation of Policy LU-4.2 to develop an Agricultural Mitigation Program consistent with the DOC's recommendations, the loss of Prime Farmland, Unique Farmland, and/or Farmland of Statewide Importance would be offset with the preservation of an equal acreage of similar prime agricultural land. With the incorporation of the DOC recommended Agricultural Mitigation Program policies (equal preservation) to the 2040 General Plan, impacts related to the conversion of Farmland to non-agricultural use would be less than significant, and no mitigation is required."

As such, the proposed policies in the 2040 General Plan would promote the preservation of scenic natural resources and the development of visual transitions to the city. Implementation of the policies LU-2.2, LU-2.4, LU-2.5, LU-2.6, LU-2.8, HE-1.3, and COS-1.2 would provide a sense of transition between active farmland within the planning area and development within the city, as well as visually attractive gateways into Kerman. Impacts would be less than significant.

b) Conflict with existing zoning for agricultural use or a Williamson Act contract?

Less than Significant Impact with Mitigation. The Project site is currently zoned for agricultural use by the County of Fresno and is almost entirely surrounded by existing agricultural uses and zoning. Development within the City's Sphere of Influence (SOI), however, is subject to annexation and the requirements of the City General Plan. The City's General Plan designates the site for MDR – Medium Density Residential and GC – General Commercial land uses. The Project proposes a General Plan Amendment to change the GC designation to MU – Mixed Use. As zoning must be consistent with the General Plan, the property will be legally required to be rezoned to corresponding residential and mixed-use zoning districts upon approval.

Upon entitlement approval, the Fresno County Local Agency Formation Commission (LAFCO) will review and approve the expansion of the City limits, specifically considering the Project's impact on agricultural land, as mandated by state law. Once approved by LAFCO and annexed into the City limits, the Project will no longer be subject to the County's agricultural zoning.

While the Project's proposed land uses are inconsistent with the existing County agricultural zoning, this conflict is considered less than significant because the City's General Plan has planned for urban development within its SOI. Consistency with the City's planned land uses will be achieved through the required General Plan Amendment and subsequent rezoning as part of the Project's approval process. Furthermore, the site is not under a Williamson Act contract.

However, given the existing agricultural uses and zoning that surrounds the Project site, there is the potential for the Project to conflict with the surrounding agricultural uses and zoning. Impacts could be potentially significant. To reduce potential conflicts between the proposed urban development and the surrounding agricultural uses, ***Mitigation Measure (MM) AG-1***, consistent with the City's standard practice, shall be implemented. Impacts would be less than significant with mitigation incorporated.



Mitigation Measure AG-1: *Reduce Conflicts Between Urban and Agricultural Uses. In order to reduce potential conflicts between urban and agricultural uses, the following measures shall be implemented:*

1. *Potential residents shall be notified about possible exposure to agricultural chemicals at the time of purchase / lease of property within the development. Notification shall be provided by the project proponent to the potential resident. Notification shall occur at the time of each property sale or lease agreement, as demonstrated through disclosure statements included in the purchase agreements or lease documents, with a signed acknowledgement by the buyer/lessee. Verification that this notification process has been consistently implemented shall be provided by the project proponent to the City of Kerman Community Development Department prior to the approval of occupancy for each property.*
 2. *A Right-to-Farm Covenant shall be recorded on each parcel map and residential tract map or be made a condition of each tract map or parcel map to protect continued agricultural practices in the area. The City of Kerman Community Development Department shall be responsible for requiring the condition as part of the tentative map approval. The project proponent shall be responsible for ensuring the covenant is recorded. Verification of recording shall occur by the City of Kerman Community Development Department prior to the final map approval.*
 3. *Potential residents and commercial tenants shall be informed of the Right-to-Farm Covenant at the time of purchase / lease of property within the development. Notification shall be provided by the project proponent to the potential resident. Verification shall occur at the time of each property sale or lease agreement, as demonstrated through disclosure statements included in the purchase agreements or lease documents, with a signed acknowledgement by the buyer/lessee. Verification that this notification process has been consistently implemented shall be provided by the project proponent to the City of Kerman Community Development Department prior to the approval of occupancy.*
- c) **Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?**

No Impact. The Project Area is not planned or zoned for forest land or timberland as defined by PRC 12220 (g). Further, the Project would not cause the rezoning of forest land, timberland, or timberland zoned Timberland Production. As a result, the Project would not conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production as defined by PRC 4526 or GC 5110(g) and no impact would occur.

d) **Result in the loss of forest land or conversion of forest land to non-forest use?**

No Impact. The Project Area does not contain forest land and is not planned or zoned for forest land or forest uses. Implementation of the Project would therefore not result in the loss of forest land or conversion of forest land to non-forest use. As a result, no impact would occur.

e) **Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?**

Less than Significant Impact. While the Project Area is zoned for agricultural uses within the County of Fresno, it is planned for urbanized uses by the City of Kerman. As analyzed under criteria a) and b), the Project would have a less than significant impact on the conversion of farmland to non-agricultural use since development of the site is



subject to annexation into Kerman's city limits, where it is planned for urbanized uses. In addition, the Project is adjacent to existing development (i.e., a school under construction to the south of the Project Area) within Kerman's city limits. As such, the proposed development would be generally consistent with the existing environment of the adjacent urbanized neighborhood and would follow the pattern of growth as planned in the General Plan. As a result, the Project would not involve additional changes in the existing environment that could result in the conversion of farmland to non-agricultural use or conversion of forest land to non-forest use that is not considered in the General Plan. Therefore, a less than significant impact would occur because of the Project.

4.2.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Agriculture and Forestry REsources related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.3 AIR QUALITY

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			X	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?			X	
c) Expose sensitive receptors to substantial pollutant concentrations?			X	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			X	

4.3.1 Environmental Setting

The Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum was prepared by LSA (dated July 30, 2024) to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or greenhouse gas (GHG) emissions generated from construction and/or operation of the proposed Project would cause significant impacts to air resources in the area.

It should be noted that the Memorandum analyzed the development of 179 single-family lots; however, only 172 single-family lots are proposed for the latest iteration of the Tentative Tract Map. This should not affect the outcome of the analysis since the proposed development of 172 lots would have a less impact than 179 lots that were analyzed in the Memorandum. In addition to the development of the Project Site (i.e., Parcel 1), the analysis also includes potential build-out of Parcel 2 under the Mixed Use land use designation, with the assumption of 150 multi-family dwelling units and 13,500 square-foot of commercial uses. While the emissions of both the proposed subdivision and Parcel 2 are analyzed, future development Parcel 2 may still require additional CEQA analysis when development is proposed.

The methodology follows the *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI) prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the quantification of emissions and evaluation of potential impacts to air resources. The modeling parameters, assumptions, findings report, and appendices are provided in **Appendix A**. Results are incorporated herein.

Background

Air quality is primarily a function of local climate, local sources of air pollution, and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the



atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and, for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The proposed project is in Fresno County and is within the jurisdiction of the SJVAPCD, which regulates air quality in the San Joaquin Valley Air Basin (SJVAB).

The SJVAB is comprised of approximately 25,000 square miles and covers all of seven counties including Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare, and the western portion of an eighth, Kern. The SJVAB is defined by the Sierra Nevada mountains in the east (8,000 to 14,000 feet in elevation), the Coast Ranges in the west (averaging 3,000 feet in elevation), and the Tehachapi mountains in the south (6,000 to 8,000 feet in elevation). The valley is topographically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay. An aerial view of the SJVAB would simulate a "bowl" opening only to the north. These topographic features restrict air movement through and out of the basin.

Both the State of California and federal government have established health-based Ambient Air Quality Standards (AAQS) for six criteria air pollutants: carbon monoxide (CO), ozone (O₃), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), lead (Pb), and suspended particulate matter (particulate matter less than 2.5 microns in diameter [PM_{2.5}] and particulate matter less than 10 microns in diameter [PM₁₀]). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O₃ and NO₂, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO₂, and Pb are considered local pollutants that tend to accumulate in the air locally.

Air quality monitoring stations are located throughout the nation and are maintained by the local air districts and State air quality regulating agencies. Data collected at permanent monitoring stations are used by the United States Environmental Protection Agency (USEPA) to identify regions as "attainment" or "nonattainment" depending on whether the regions meet the requirements stated in the applicable National Ambient Air Quality Standards (NAAQS). Nonattainment areas are imposed with additional restrictions as required by the USEPA. In addition, different classifications of attainment (e.g., marginal, moderate, serious, severe, and extreme) are used to classify each air basin in the State on a pollutant-by-pollutant basis. The classifications are used as a foundation to create air quality management strategies to improve air quality and to comply with the NAAQS. As shown in **Table 4-2**, the SJVAB is designated as nonattainment by federal standards for O₃ and PM_{2.5} and nonattainment by State standards for O₃, PM₁₀, and PM_{2.5}.

Table 4-2 Attainment Status of Criteria Pollutants in the San Joaquin Valley Air Basin

Pollutant	State	Federal
Ozone (1-hour)	Revoked	Nonattainment/Severe
Ozone (8-hour)	Nonattainment/Extreme	Nonattainment
PM ₁₀	Attainment	Nonattainment
PM _{2.5}	Nonattainment	Nonattainment
Carbon Monoxide	Attainment/Unclassified	Attainment/Unclassified
Nitrogen Dioxide	Attainment/Unclassified	Attainment
Lead	No Designation/Classification	Attainment



Sulfur Dioxide	Attainment/Unclassified	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified

Source: San Joaquin Valley Air Pollution Control District (2024).

PM_{10} = particulate matter less than 10 microns in diameter

$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter

Ozone levels, as measured by peak concentrations and the number of days over the State 1-hour standard, have declined substantially as a result of aggressive programs by the SJVAPCD and other regional, State, and federal agencies. The reduction of peak concentrations represents progress in improving public health; however, the SJVAPCD still exceeds the State standard for 1-hour and 8-hour ozone levels. In addition, the SJVAB was designated as a serious nonattainment area for the federal 1997 8-hour ozone level in June 2004. The USEPA lowered the 1997 0.80 parts per million (ppm) national 8-hour ozone standard to 0.75 ppm in 2008 and then to 0.70 ppm on October 1, 2015. The valley is classified as nonattainment for the 1-hour and 8-hour ozone standards at the State and federal levels, although a request for redesignation as attainment of the 1-hour ozone standard was submitted to the USEPA in 2014. During the 2021–2023 period, the Fresno-Sierra Air Monitoring Station located at Blythe Avenue and Chennault Avenue (i.e., the closest monitoring station to the project site monitoring ozone) recorded the following exceedances of the State and federal 1-hour and 8-hour ozone standards:

- The federal 8-hour ozone standard had 15 exceedances in 2021, 5 exceedances in 2022, and 11 exceedances in 2023.
- The State 8-hour ozone standard had 16 exceedances in 2021, 5 exceedances in 2022, and an unknown number of exceedances in 2023.
- The federal 1-hour ozone standard had no exceedances during the 3-year period.
- The State 1-hour ozone standard had 6 exceedances in 2021, 1 exceedance in 2022, and an unknown number of exceedances in 2023.

Federal and State standards have also been established for $PM_{2.5}$ over 24-hour and yearly averaging periods. $PM_{2.5}$, because of the small size of individual particles, can be especially harmful to human health. $PM_{2.5}$ is emitted by common combustion sources such as cars, trucks, buses, and power plants, in addition to ground-disturbing activities. On February 7, 2024, the USEPA strengthened the NAAQS for $PM_{2.5}$ by revising the primary (health-based) annual standard from 12.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 9.0 $\mu\text{g}/\text{m}^3$; however, a new attainment designation has not been issued. The SJVAB is considered a nonattainment area for the $PM_{2.5}$ standard at the State and federal levels. During the 2021–2023 period, the Fresno-Tranquility Station located at 32650 West Adams Avenue (i.e., the closest monitoring station to the project site monitoring $PM_{2.5}$) recorded the following exceedances of the federal 24-hour $PM_{2.5}$ standards:

- The State 24-hour $PM_{2.5}$ standard had 12 exceedance in 2021, 12 exceedance in 2022, and an unknown number in 2023.
- The federal 24-hour $PM_{2.5}$ standards had 7 exceedances in 2021 and no exceedances in 2022 and 2023.

The SJVAPCD is classified as a PM_{10} nonattainment area at the State level and was redesignated from serious nonattainment to attainment of the federal PM_{10} standard in 2008. Because the SJVAPCD was redesignated from nonattainment to attainment, a PM_{10} maintenance plan was adopted in 2007 and is required to be updated every 10 years. From 2021 to 2023, the Fresno-Drummond Station located at 4706 East Drummond Street (the closest



monitoring station to the project site monitoring PM₁₀) recorded the following exceedances of the federal and State 24-hour PM₁₀ standards:

- The State 24-hour PM₁₀ standards had 20 exceedances in 2021, 133 exceedances in 2022, and an unknown number of exceedances in 2023.
- The federal 24-hour PM₁₀ standards had no exceedances in the 3-year period.

No exceedances of the State or federal CO standards have been recorded at any of the region's monitoring stations since 1991. The SJVAB is currently considered an attainment area for State and federal 8-hour and 1-hour CO standards.

Toxic Air Contaminants

The public's exposure to toxic air contaminants (TACs) is a significant environmental health issue in the State of California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. Health and Safety Code §39655 defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to Subsection (b) of United States Code (USC) Title 42, Section 7412, is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through the California Air Resources Board (CARB), is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (the Tanner Air Toxics Act), AB 2588 (the Air Toxics "Hot Spot" Information and Assessment Act of 1987), and Senate Bill (SB) 25 (the Children's Environmental Health Protection Act). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once TACs are identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.

Air toxics from stationary sources are also regulated in California under AB 2588 (the Air Toxics "Hot Spot" Information and Assessment Act of 1987). Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the designated air quality management district or air pollution control district. High-priority facilities are required to perform a Health Risk Assessment (HRA) and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

To date, CARB has designated nearly 200 compounds as TACs. Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines (DPM).



City of Kerman 2040 General Plan

The City of Kerman General Plan Public Health and Safety Element includes objectives and policies that work to protect public health, agricultural crops, and natural resources from air pollution. The following policies related to air quality are applicable to the proposed Project:

Policy PH-7.1: Regional Coordination for Air Quality. *The City shall continue to participate in regional planning efforts to meet air quality goals.*

Policy PH-7.4: Construction Best Management Practices. *The City shall require new projects to incorporate economically feasible SJVAPCD construction best management practices as conditions of approval, if the project exceeds the most recent SJVAPCD SPAL screening levels at the time of preparation.*

Policy PH-7.5: Toxic Air Contaminants (TACs) and Health Risks Assessments (HRA). *The City shall require new development projects that produce Toxic Air Contaminants (TACs) or other health risks to retain a qualified professional to complete a SJVAPCD-compliant evaluation of all stationary source developments near sensitive receptors to determine if a project-specific Health Risks Assessment (HRA) would be required prior to approval. If required, the City shall require all identified TAC risks from the HRA to be mitigated to meet current SJVAPCD TAC thresholds.*

Policy PH-7.7: Regional Coordination for Air Quality. *The City shall support programs that educate the public on climate change and encourage residents and businesses to become involved in activities and lifestyle changes that will aid in reduction of greenhouse gas emissions.*

Methodology

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips.

The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. The construction schedule of the proposed project is not yet known. Therefore, this analysis utilizes a CalEEMod default construction schedule, which anticipates construction to begin in February 2025 and take place for approximately 27 months, ending in 2027. This represents a conservative analysis, because if the proposed construction activities should occur at a later timeframe, estimated emissions would be expected to decrease into the future due to technological advances and the implementation of forthcoming regulatory requirements. The proposed Project would not require the import or export of soil, which was also included in CalEEMod. This analysis also assumes use of Tier 2 construction equipment. The proposed project would also comply with the SJVAPCD Regulations VIII measures for fugitive dust. Other detailed construction information is currently unavailable; therefore, this analysis utilizes CalEEMod default assumptions.



Construction Health Risk Assessment

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed Project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed Project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

Operational Emissions

The air quality analysis includes estimating emissions associated with long-term operation of the proposed Project. Consistent with the SJVAPCD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the Project.

As discussed previously in the Project Description section, the proposed project would include the construction of 172 single-family residential units and associated site improvements.⁶ The proposed project analysis was conducted using land use codes Single Family Housing, City Park, and Other Asphalt Surfaces. In addition, consistent with the project's Trip Generation, the analysis for the potential build-out of Parcel 2 under the Mixed Use Development land use designation assumed 150-multifamily dwelling units and 13,500 sf of commercial uses. Therefore, this analysis was conducted using land codes Apartments Low Rise and Strip Mall. Trip generation rates used in CalEEMod were based on the project's Trip Generation, which identifies 1,011 average daily trips for the multifamily housing and 735 average daily trips for the commercial uses. Trip generation rates used in CalEEMod for the project were based on the project's Trip Generation, which identifies that the proposed project would generate approximately 1,688 average daily trips. In addition, consistent with SJVAPCD Rule 4901, this analysis assumes that the proposed project would not include any wood burning (or natural gas) fireplaces. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions.

The total emissions for the proposed single family residential development on Parcel 1, along with the maximum build-out that would be allowed on proposed Parcel 2 under the Mixed-Use land use designation were summed and compared to applicable regional thresholds recommended by the SJVAPCD.

⁶ As discussed in the beginning of the Environmental Settings, the development of 179 single-family lots is analyzed; however, only 172 single-family lots are proposed for the latest iteration of the Tentative Tract Map. This should not affect the outcome of the analysis since the proposed development of 172 lots would have a less impact than 179 lots that were analyzed.



Thresholds of Significance

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Regional Emissions Thresholds

The SJVAPCD defines emissions thresholds in the GAMAQI, established based on the attainment status of the air basin in regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. The related impacts are discussed further in the Project Impacts section. The SJVAPCD regional emission thresholds for construction and operation are shown in **Table 4-3**.

Table 4-3 Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (Tons per Year)					
	CO	NOx	ROG	SOx	PM ₁₀	PM _{2.5}
Construction	100	10	10	27	15	15
Operations	100	10	10	27	15	15

Source: *Guidance for Assessing and Mitigating Air Quality Impacts (SJVAPCD 2015)*.

CO = carbon monoxide

NOX = nitrogen oxides

PM2.5 = particulate matter less than 2.5 microns in size

PM10 = particulate matter less than 10 microns in size

ROG = reactive organic gas

SJVAPCD = San Joaquin Valley Air Pollution Control District

SOX = sulfur oxides

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the SJVAB, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

Health Risk Thresholds

Both the State and federal governments have established health-based AAQS for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For



TACs, “substantial” is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the SJVAB:

- MICR: MICR is the estimated probability of a maximum exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations, 350 days per year. The SJVAPCD’s Update to the District’s Risk Management Policy to Address the OEHHA Revised Risk Assessment Guidance Document states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 20 in 1 million.
- Chronic HI: Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multipathway consideration when applicable. The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.
- Acute HI: Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level. The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

4.3.2 Impact Assessment

Would the Project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant Impact. The proposed Project is in a region classified as a nonattainment area. The main purpose of the air quality plan is to bring the area into compliance with the requirements of the federal and State air quality standards. To bring the San Joaquin Valley into attainment, the SJVAPCD adopted the 2022 Plan for the 2015 8-Hour Ozone Standard in December 2022 to satisfy CAA requirements and ensure attainment of the 75 parts per billion (ppb) 8-hour ozone standard.

To ensure the SJVAB’s continued attainment of the USEPA PM₁₀ standard, the SJVAPCD adopted the 2007 PM₁₀ Maintenance Plan in September 2007. The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 PM_{2.5} Standards in November 2018 to address the USEPA 1997 annual PM_{2.5} standard of 15 µg/m³ and 24-hour PM_{2.5} standard of 65 µg/m³, the 2006 24-hour PM_{2.5} standard of 35 µg/m³, and the 2012 annual PM_{2.5} standard of 12 µg/m³.

CEQA requires that certain proposed projects be analyzed for consistency with the applicable air quality plan. For a project to be consistent with SJVAPCD air quality plans, the pollutants emitted from a project should not exceed the SJVAPCD emission thresholds or cause a significant impact on air quality. In addition, emission reductions achieved through implementation of offset requirements are a major component of the SJVAPCD air quality plans. As discussed below, the proposed Project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. Therefore, the proposed Project would not conflict with or obstruct implementation of SJVAPCD air quality plans and would have a less than significant impact.



b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

Less than Significant Impact. The SJVAB is currently designated nonattainment for the federal and State standards for O₃ and PM_{2.5}. In addition, the SJVAB is in nonattainment for the PM₁₀ standard. The SJVAB's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of an ambient air quality standard. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The following analysis assesses the potential construction- and operation-related air quality impacts.

Construction Emissions

During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by excavation activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, reactive organic gases (ROGs), directly emitted PM_{2.5} or PM₁₀, and TACs (e.g., DPMs).

Project construction would include site preparation, grading, building construction, paving, and architectural coating activities. Construction-related effects on air quality from the proposed project would be greatest during the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM₁₀ emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM₁₀ emissions would depend on soil moisture, silt content of soil, wind speed, and amount of operating equipment. Larger dust particles would settle near the source, whereas fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The SJVAPCD has established Regulation VIII measures for reducing fugitive dust emissions (PM₁₀). With the implementation of Regulation VIII measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM₁₀ emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SO_x), NO_x, ROGs, and some soot particulate (PM_{2.5} and PM₁₀) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.



Construction emissions were estimated for the project using CalEEMod and are summarized in [Table 4-4](#).

Table 4-4 Short-Term Regional Construction Emissions

Construction Year	Annual Pollutant Emissions (Tons per Year)					
	ROG	NOx	CO	SOx	Total PM ₁₀	Total PM _{2.5}
2025	0.1	3.1	2.4	<0.1	0.3	0.2
2026	0.1	2.5	2.1	<0.1	0.1	0.1
2027	1.1	0.4	0.4	<0.1	<0.1	<0.1
Maximum Emissions	0.1	3.1	2.4	<0.1	0.3	0.2
SJVAPCD Threshold	10.0	10.0	100.0	27.0	15.0	15.0
Significant?	No	No	No	No	No	No

As shown in [Table 4-4](#), construction emissions associated with the proposed Project would not exceed the SJVAPCD's thresholds for ROG, NOx, CO, SOx, PM₁₀, and PM_{2.5} emissions. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. Construction emissions associated with the proposed Project would be less than significant with implementation of Regulation VIII. Therefore, construction of the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or State ambient air quality standard.

Operational Air Quality Impacts

Long-term air pollutant emission impacts associated with the proposed Project are those related to mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment).

Mobile source emissions include ROG and NOx emissions that contribute to the formation of ozone. Additionally, PM₁₀ emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source.

Typically, area source emissions consist of direct sources of air emissions located at the Project Area, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment and the use of consumer products.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. [Table 4-5](#) provides the proposed Project's estimated operational emissions.

Table 4-5 Project Operational Emissions

Emission Type	Annual Pollutant Emissions (Tons per Year)					
	ROG	NOx	CO	SOx	Total PM ₁₀	Total PM _{2.5}
Mobile Sources	2.0	2.1	14.5	<0.1	3.6	1.0
Area Sources	2.6	0.1	3.4	<0.1	0.2	0.2
Energy Sources	<0.1	0.6	0.3	<0.1	<0.1	<0.1
Total Project Emissions	4.6	2.8	18.2	<0.1	3.8	1.2
SJVAPCD Threshold	10.0	10.0	100.0	27.0	15.0	15.0



Significant?	No	No	No	No	No	No
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The results shown in **Table 4-5** indicate the proposed project would not exceed the significance criteria for annual ROG, NOx, CO, Sox, PM₁₀, or PM_{2.5} emissions. Therefore, operation of the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed Project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed Project Area. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed Project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate Project vicinity are not available. Ambient CO levels monitored at Fresno station located at 3727 North First Street (i.e., the closest station to the project site monitoring CO) showed a highest recorded 1-hour concentration of 2.2 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.8 ppm (the State standard is 9 ppm) during the past 3 years. The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis. Reduced speeds and vehicular congestion at intersections result in increased CO emissions.

As described in the **Environmental Setting**, the proposed Project is estimated to generate 1,688 average daily trips. Therefore, given the extremely low level of CO concentrations in the Project Area and the lack of traffic impacts at any intersections, Project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the Project would not result in any project-related impacts on CO concentrations.

To summarize, construction emissions, operational emissions, and CO concentrations as a result of the Project do not exceed applicable federal or state ambient air quality standards. As such, the Project would have a less than significant impact.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact. Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. The Project Area is surrounded primarily by agricultural uses. The closest



sensitive receptors to the Project Area include rural residences located to the north and the east of the project site within 500 feet. The nearest worker receptor to the Project Area is located approximately 750 feet south of the project site. The nearest school receptor to the Project Area is Harvest Elementary School, located immediately south of the Project site.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed Project. **Table 4-6** identifies the results of the analysis assuming the use of Tier 2 construction equipment as proposed by the Project. Model snapshots of the sources are shown in Attachment C in **Appendix A**.

Table 4-6 Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Residential Receptor Risk	9.53	0.007	0.000
Worker Receptor Risk	0.45	0.016	0.000
School Receptor	0.03	<0.001	0.000
SJVAPCD Significance Threshold	20.0 in one million	1.0	1.0
Significant?	No	No	No

Source: Compiled by LSA (July 2024).

SJVAPCD = San Joaquin Valley Air Pollution Control District

As shown in **Table 4-6**, the maximum cancer risk for the residential MEI would be 9.53 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker MEI risk would be lower at 0.45 in one million and the school MEI would be 0.03 in one million, which would not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index (HI) would be 0.007 for the residential MEI, 0.016 for the worker MEI, and less than 0.001 for the school MEI, which is below the threshold of 1.0. In addition, the total acute HI would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations and would have a less than significant impact.

Furthermore, the proposed Project would include the construction of a 172-unit, single-family residential development. As identified in **Table 4-5**, Project operational emissions of criteria pollutants would be below SJVAPCD significance thresholds; thus, they are not likely to have a significant impact on sensitive receptors. In addition, the proposed Project would be required to implement District Rule 9510, Indirect Source Review (ISR). Implementation of Rule 9510 would reduce operational emissions of NO_x and PM₁₀ by 33.3 percent and 50 percent, respectively. Compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to gasoline vapors to a level that is not significant. Once the proposed Project is constructed, the proposed Project would not be a source of substantial emissions. Therefore, implementation of the proposed Project would not result in new sources of TACs. Therefore, the Project would not expose sensitive receptors to substantial levels of TACs and would have a less than significant impact.



d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than Significant Impact.

Odor

The SJVAPCD addresses odor criteria within the GAMAQI. The district has not established a rule or standard regarding odor emissions, rather, the district has a nuisance rule: *“Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact.”*

During Project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the Project Area and would readily dissipate. Therefore, the proposed Project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Naturally Occurring Asbestos

The Project is in Fresno County, which is among the counties found to have serpentine and ultramafic rock in their soils. However, according to the California Geological Survey, no such rock has been identified in the Project vicinity. When demolition is proposed during construction, the demolition of existing buildings may expose asbestos used in building materials. However, the proposed Project would not involve any demolition or renovation as no current development exists on the Project Area. Therefore, the potential risk for naturally occurring asbestos during Project construction is small and would not be significant.

Valley Fever

The Project Area is surrounded primarily by residential uses. The closest sensitive receptors to the Project Area include a single-family home located east of the project site within 105 feet. Except under high wind conditions, this distance is sufficient that particulate matter would settle prior to reaching the nearest sensitive receptor. In addition, crosswinds influenced by the adjacent roadways would help dissipate any particulate matter associated with the construction phase of the Project. Therefore, any Valley fever spores suspended with the dust would not be anticipated to reach the sensitive receptors. However, during Project construction, it is possible that workers could be exposed to Valley fever through fugitive dust. Dust control measures, consistent with SJVAPCD Regulation VIII, would reduce the exposure to the workers and sensitive receptors. Therefore, dust from the construction of the Project is not anticipated to significantly add to the existing exposure of people to Valley fever.

As a result, the Project would have a less than significant impact on other emissions adversely affecting a substantial number of people

4.3.3 Mitigation Measures

None required.



4.4 BIOLOGICAL RESOURCES

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) 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. Fish and Wildlife Service?		X		
b) 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 US Fish and Wildlife Service?				X
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
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?		X		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
f) Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.				X



4.4.1 Environmental Setting

A Biological Resource Assessment was conducted by Argonaut Ecological Consulting, Inc., on April 10, 2024, and is provided in **Appendix B**. The assessment includes assessing the types of current habitats and sensitive species associated with the habitats. The biological evaluation methods include performing site reconnaissance, reviewing public and commercial databases, historical and current aerial photographs, and other published information and data. The respective assessment was conducted specifically for APNs 020-120-06 and 020-120-03S. The following environmental setting summarizes information from the Biological Resource Assessment.

Methodology

Data and Literature Review

Documents and sources of information used to prepare this evaluation include the following:

- Aerial photography (Google Earth®, Bing®, and historic aerials).
- California Department of Fish and Wildlife, California Natural Diversity Database (CNDDB/RareFind - Recent version with updates) EcoAtlas 2023.
- U.S. Department of Agriculture, Natural Resources Conservation Service, Soil Survey of Fresno County (Soils mapper).
- U.S. Fish and Wildlife Service, National Wetland Inventory Map.
- U.S. Fish and Wildlife Service, Information for Planning and Consultation (IPaC).
- U.S. Geological Survey, Historical Topographic Map, Kerman Quadrangle, 1924, University of Texas, Austin, Perry-Castañeda Map Collection.

Aerial Photography and Wetland Mapping

Historical aerial photographs dating back to the 1990s of the Study Area (identified as APNs 020-120-06 and 020-120-03S) were reviewed to identify site features and determine land-use changes over time. No significant changes in land use have occurred outside the construction of a large residential home in the northwest corner of the Study Area, sometime between 2006 and 2009. Wetland mapping and aerial photographs were also reviewed to determine if the Study Area recently or historically supported wetlands.

Field Investigation

A site investigation was performed on March 21, 2024. Soils, vegetation, and drainage patterns within the Study Area were inspected to determine the habitat present and suitability for species of concern. Walking transects were used to provide full coverage.

Physical Resources

Climate

The Study Area climate is typical of the central San Joaquin Valley, with long, hot, dry summers and cool, mild winters. In the winter, rainfall averages approximately 9.99 inches per year, falling mainly between November and April (Western Regional Climate Center, 2004). During 2021 total rainfall, the Fresno region had a total of 8.22 inches; in 2022, there was a total of 5.43 inches. Since the fall of 2022, the regional rainfall totaled 21 inches (through May 2023) near Fresno.



Topography, Drainage, and Soils

The Study Area is located within the Central Valley, at approximately 220 above sea level. Site drainage appears to be to the northwest. The nearest stream is the San Joaquin River, roughly six miles north and northwest of the Study Area. There are four soil types within the Study Area: Hanford sandy loam, silty substratum (75% of the Study Area), Tujunga loam sandy, 0 to 3 percent slopes (13.5%), Hanford coarse sandy loam (7.5 %), and Hesperia sandy loam, deep (4.2%).

Land Use

The Study Area has been used for several decades as agricultural land (row crops) and orchards (aerial photographs show the area in crop production since before 1985). A large residential home is located at the northwest corner (constructed in the mid-2000s). There is also a farm equipment area and some structures on the study area's eastern half. Similar land uses surround the Study Area. However, immediately south of the Study Area, the parcel appears to have been recently converted to another use, based on a recent aerial photograph (2023). The use appears to be either agricultural warehouse or commercial. The land conversion immediately south of the Study Area occurred between 2021 and 2022.

Habitat

There are several California habitat classification systems. Most classification systems describe natural communities without established developed or agricultural habitat classifications. CALVEG is a USDA Forest Service classification system that provides a comprehensive spatial dataset of existing vegetation covering California. The data were created using a combination of automated systematic procedures, remote sensing classification, photo editing, and field-based observations.

There are several California habitat classification systems. Most classification systems describe natural communities without established developed or agricultural habitat classifications. CALVEG is a USDA Forest Service product providing a comprehensive spatial dataset of existing vegetation cover over California. The data were created using a combination of automated systematic procedures, remote sensing classification, photo editing, and field-based observations. Analyses are based “on a crosswalk of the CALVEG classifications to the California Wildlife Habitat Relationships (CWHR).” Calveg lists the site as an “agricultural/nonnative/ruderal” habitat.

The Study Area is orchards except for the large home site in the northwest corner and the equipment laydown area on the eastern parcel. It appears the orchards were planted in 2016. Interspersed within the orchards are forbs such as Johnson grass (*Sorghum halepense*), bromes (e.g., *Hordeum murinum*, bromes), and other weedy grasses.

No ground squirrels were observed. Several bird species (mourning dove, crows, etc.) were observed onsite. There is one potential suitable nest tree (mature tree) but no raptor nest.

Historically (starting in 2023), there is a portion of a man-made irrigation channel that appears to have begun at a set of wells immediately north of the Study Area. This ditch is an isolated ditch (not a tributary to a waters) terminated northeast near the intersection of N. Colorado Avenue and W. Belmont Avenue (roughly ¾ of a mile). No portion of this ditch is within the Study Area or along the roadway of N. Madera Avenue. It appears a portion of the ditch has been reestablished along W. Nielson Avenue, east of N. Madera Avenue.



Waters/Wetland

No wetland features exist within the Study Area. The accuracy of the National Wetland Inventory Mapping was confirmed in the field. The excavated ditch north of the Study Area boundary is identified as RSUBFx: "Riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded, excavated." In common parlance, this refers to an excavated channel/ditch. No evidence of this feature was found during the field review, and it appears it has been removed.

Special Status Species

A query of the California Natural Diversity Database (CNDDDB) and the USFWS IPaC was performed to determine which special status species could be present within the Study Area. No critical habitat exists for any species within or near the Study Area. The CNDDDB Bios mapping is shown in Figure 5. This map shows the location of known records of special-status species near the Study Area. Table 1 in the Biological Resource Assessment shows a summary of the potential occurrence and impact of special status species in or near the Study Area. Most species are assessed as being absent while one (1) species is assessed as likely absent:

- **San Joaquin kit fox:** No denning habitat within or near the Study Area. It could occasionally forage in the area if the species is in the area.

Conclusion

The Biological Resource Assessment identified the following conclusions and recommended mitigation measures to avoid any potential impacts to special status species.

- The Study Area has been in agricultural (orchard) production for numerous decades. The only developed portion of the Study Area is an existing home parcel in the northwest corner.
- The habitat is limited as a result of the intensive agricultural use. The habitat is limited to orchards and ruderal habitats (weedy species along the rows). There is a single large mature tree, but there are no raptor nests in the tree.
- There are no aquatic resources (jurisdictional or otherwise) within the Study Area or adjacent to the Study Area.
- The Study Area does not support any habitat for special-status species.

4.4.2 Impact Assessment

Would the Project:

- a) *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 Wildlife or the U.S. Fish and Wildlife Service?*

Less than Significant with Mitigation Incorporated. The Project Area is currently used for agricultural uses (row crops and orchards). There is one (1) existing single-family residence and related structures (e.g., garage/shed) on the northwest corner of APN 020-120-03S and some structures for farm equipment at the center of APN 020-120-06. The existing biotic site conditions and resources of the Project Area can be defined as agricultural/nonnative/ruderal according to Calveg and is disturbed due to annual discing. There are several trees



located around the existing structures on the site. No wetlands or water features are within or adjacent to the Project Area.

As described in the **Environmental Setting**, the site conditions provide low suitability for habitat for any candidate, sensitive, or special-status species that may occur on the Project Area or vicinity. However, San Joaquin kit fox could occasionally forage in the area if the species is present in the area. Therefore, to reduce impacts to the San Joaquin kit fox that may occur during site construction and development, the Project shall incorporate **Mitigation Measure (MM) BIO-1**. Through incorporation of the mitigation measure, potentially significant impacts would be reduced to less than significant with mitigation incorporated and the Project would not 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 CDFW or USFWS.

Mitigation Measure BIO-1: San Joaquin kit fox Avoidance. *The following measures shall be implemented to avoid any potential impact to San Joaquin kit fox during construction. These measures are designed to avoid and minimize any impact on San Joaquin kit fox in the unlikely event an individual is present within the Study Area at any time during construction. A description of the measures shall be included in the construction plans submitted to the City of Kerman Community Development Department by the project proponent during the building permit process for each phase of construction. Incorporation of measures shall be verified by the City of Kerman Community Development Department prior to issuance of building permits for each phase.*

1. **Prior to Construction:** *Prepare and conduct an employee education program prior to the start of construction. The program shall consist of a brief presentation by persons knowledgeable in kit fox biology and legislative protection to explain endangered species concerns to contractors, their employees, and military and/or agency personnel involved in the Project. The program shall include the following: A description of the San Joaquin kit fox and its habitat needs; a report of the occurrence of kit fox in the Project area; an explanation of the status of the species and its protection under the Endangered Species Act; and a list of measures being taken to reduce impacts to the species during Project construction and implementation (as summarized below). A fact sheet conveying this information shall be prepared for distribution to the previously referenced people and anyone else who may enter the Project site.*
2. **Avoidance and Minimization Measures During Construction:** *The following measures shall be included within the worker education program and in any Project specification and contract.*
 - a. *Project-related vehicles shall observe a daytime speed limit of 20 mph throughout the site in all Project areas, except on county roads and State and Federal highways; this is particularly important at night when kit foxes are most active. No nighttime construction shall occur, given the species is primarily nocturnal.*
 - b. *To prevent inadvertent entrapment of kit foxes or other animals during the construction phase of a Project, all excavated, steep-walled holes or trenches more than 2 feet deep shall be covered at the close of each working day by plywood or similar materials. If the trenches cannot be closed, one or more escape ramps constructed of earthen fill or wooden planks shall be installed. Before such holes or trenches are filled, they shall be thoroughly inspected for trapped animals. If at any time a trapped or injured kit fox is discovered, the Service and the California Department of Fish and Game (CDFG) shall be contacted as noted under measure 13 referenced below.*
 - c. *Kit foxes are attracted to den-like structures such as pipes and may enter stored pipes and become trapped or injured. All construction pipes, culverts, or similar structures with a diameter of 4-inches or greater that*



are stored at a construction site for one or more overnight periods shall be thoroughly inspected for kit foxes before the pipe is subsequently buried, capped, or otherwise used or moved in any way. If a kit fox is discovered inside a pipe, that section of pipe shall not be moved until the Service has been consulted. If necessary, and under the direct supervision of the biologist, the pipe may be moved only once to remove it from the path of construction activity until the fox has escaped.

- d. All food-related trash items such as wrappers, cans, bottles, and food scraps shall be disposed of in securely closed containers and removed at least once a week from a construction or Project site.*
 - e. No firearms shall be allowed on the Project site.*
 - f. No pets, such as dogs or cats, shall be permitted on the Project site to prevent harassment, mortality of kit foxes, or destruction of dens.*
 - g. The use of rodenticides and herbicides in Project areas shall be restricted. This is necessary to prevent primary or secondary poisoning of kit foxes and the depletion of prey populations on which they depend. All uses of such compounds shall observe labels and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Food and Agriculture, and other State and Federal legislation, as well as additional Project-related restrictions deemed necessary by the Service. If rodent control must be conducted, zinc phosphide shall be used because of a proven lower risk to kit fox.*
 - h. A representative shall be appointed by the Project proponent who will be the contact source for any employee or contractor who might inadvertently kill or injure a kit fox or who finds a dead, injured or entrapped kit fox. The representative will be identified during the employee education program, and their name and telephone number shall be provided to the Service.*
 - i. Upon completion of the Project, all areas subject to temporary ground disturbances, including storage and staging areas, temporary roads, etc., shall be re-contoured if necessary and revegetated, if possible, to promote restoration of the area to pre-Project conditions.*
 - j. Any contractor or employee responsible for inadvertently killing or injuring a San Joaquin kit fox shall immediately report the incident to their representative. This representative shall contact the CDFG immediately in the case of a dead, injured, or entrapped kit fox.*
 - k. The Sacramento Fish and Wildlife Office and CDFG shall be notified in writing within three working days of the accidental death or injury to a San Joaquin kit fox during Project-related activities. Notification must include the date, time, and location of the incident or the finding of a dead or injured animal and any other pertinent information.*
 - l. New sightings of kit fox shall be reported to the California Natural Diversity Database (CNDDDB). A copy of the reporting form and a topographic map marked with the location of where the kit fox was observed shall also be provided to the U.S. Fish and Wildlife Service.*
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?*

No Impact. According to the General Plan and Biological Resource Assessment, there are no known riparian habitats or other sensitive natural communities identified on the Project Area. In addition, the site does not contain any water features that would provide habitat for riparian species. Further, the site consists of ruderal, non-native vegetation. For these reasons, it can be determined that the Project Area does not provide any riparian or sensitive natural community habitat and thus, no impact would occur because of the Project.



- c) *Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

No Impact. Based on the search of the NWI, the Project Area does not contain any federally protected wetlands. As a result, it can be determined that the Project Area would not result in any impact on state or federally protected wetlands and no impact would occur because of the Project.

- d) *Would the Project 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?*

Less than Significant with Mitigation Incorporated. Wildlife movement corridors are linear habitats that function to connect two (2) or more areas of significant wildlife habitat. These corridors may function on a local level as links between small habitat patches (e.g., streams in urban settings) or may provide critical connections between regionally significant habitats (e.g., deer movement corridors).

Wildlife corridors typically include vegetation and topography that facilitate the movements of wild animals from one area of suitable habitat to another, in order to fulfill foraging, breeding, and territorial needs. These corridors often provide cover and protection from predators that may be lacking in surrounding habitats. Wildlife corridors generally include riparian zones and similar linear expanses of contiguous habitat.

As concluded in the Biological Resource Assessment, the habitat value of the Project Area for wildlife is limited, and the site does not contain suitable habitat that could support wildlife species in nesting, breeding, foraging, or escaping from predators. However, though unlikely, San Joaquin kit fox could pass through the site or attempt to forage within the area. To reduce impacts to the San Joaquin kit fox, **MM BIO-1** is implemented. As such, it can be determined that the Project would not interfere with wildlife movement and a less than significant impact with mitigation incorporated.

- e) *Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

Less than Significant Impact. KMC Chapter 12.20—*Trees and Shrubs in Public Places* establishes standards and regulations related to the planting, maintenance, and removal of trees and shrubs along public streets. There are several trees within the Project Area. Development of Parcel 1 would remove nine (9) existing trees. However, since none of these trees are within public streets, removal of the trees would not be subject to KMC Chapter 12.20. As such, the Project would have a less than significant impact.

- 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?*

No Impact. There are no adopted Habitat Conservation Plans, Natural Community Conservation Plans, or other approved local, regional, or state habitat conservation plans applicable to the Project Area. As such there would be no impact.

4.4.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Biological Resources related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.5 CULTURAL RESOURCES

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in <i>Section 15064.5</i> ?		X		
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to <i>Section 15064.5</i> ?		X		
c) Disturb any human remains, including those interred outside of formal cemeteries?			X	

4.5.1 Environmental Setting

Generally, the term ‘cultural resources’ describes property types such as prehistoric and historical archaeological sites, buildings, bridges, roadways, and tribal cultural resources. As defined by CEQA, cultural resources are considered “historical resources” that meet criteria in *Section 15064.5(a)* of the CEQA Guidelines. If a Lead Agency determines that a Project may have a significant effect on a historical resource, then the Project is determined to have a significant impact on the environment. No further environmental review is required if a cultural resource is not found to be a historical resource.

California Historical Resource Information System Record Search

The Southern San Joaquin Valley Information Center (SSJVIC) was requested to conduct a California Historical Resources Information System (CHRIS) Record Search for the Project Area and surrounding “Cultural Resource Project Area” (0.5-mile radius from perimeter of Project Area). Results of the CHRIS Record Search were provided on March 4, 2024 (Record Search File Number 24-085). Full results are provided in [Appendix C](#).

The CHRIS Record Searches generally review file information based on results of Class III pedestrian reconnaissance surveys of Project sites conducted by qualified individuals or consultant firms which are required to be submitted, along with official state forms properly completed for each identified resource, to the Regional Archaeological Information Center. Guidelines for the format and content of all types of archaeological reports have been developed by the California Office of Historic Preservation, and reports will be reviewed by the regional information centers to determine whether they meet those requirements.

The results of the SSJVIC CHRIS Record Search indicate:

- (1) There has been one (1) previous cultural resource study completed within the Project Area, FR-02501.
- (2) There have been ten (10) additional cultural resource studies completed within the Cultural Resource Project Area: FR-00245, 00246, 00247, 00663, 02414, 02505, 02506, 02582, 02754, and 03140.
- (3) There are no recorded resources within the Project Area, and it is not known if any exist there. There is one (1) recorded resource within the Cultural Resource Project Area, P-10-007097, the Houghton Canal.



- (4) The State Office of Historic Preservation Built Environment Resources Directory (OHP BERD), which includes listings of the California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and the National Register of Historic Places, lists no previously recorded buildings or structures within or adjacent to the proposed Project Area.

Further, the SSJVIC provided the following comments and recommendations:

- (1) Prior to ground disturbance activities, we recommend a qualified, professional consultant conduct a field survey to determine if cultural resources are present.
- (2) Contact the Native American Heritage Commission (NAHC) for a list of Native American individuals/organizations that can assist with information regarding traditional, cultural, and religious heritage values that may not be included in the CHRIS Inventory. Consult NAHC's "Sacred Lands Inventory" file to determine what sacred resources, if any, exist within this Project Area and the way in which these resources might be managed.

California Native American Heritage Commission (NAHC)

A consultation list of tribes with traditional lands or cultural places located within Fresno County was requested and received from the California Native American Heritage Commission (NAHC) on February 28, 2024. The listed tribes include North Fork Rancheria of Mono Indians, Northern Valley Yokut / Ohlone Tribe, Picayune Rancheria of the Chukchansi Indians, Santa Rosa Rancheria Tachi Yokut Tribe, Table Mountain Rancheria, Tule River Indian Tribe, and Wuksachi Indian Tribe/Eshom Valley Band. The NAHC also conducted a Sacred Lands File (SLF) check which received negative results. Correspondence is provided in **Appendix D**.

AB 52 and SB 18 Tribal Consultation

The City of Kerman conducted formal tribal consultation for the proposed Project pursuant to AB 52 (Chapter 532, Statutes 2014) and SB 18 (Chapter 905, Statutes 2004) on March 8, 2024, utilizing the consultation list of tribes received from the NAHC. The same tribes listed above were included in the formal consultation. Consultation for AB 52 ended on April 19, 2024, and consultation for SB 18 ended on June 6, 2024. Santa Rosa Rancheria Tachi Yokut Tribe and Table Mountain Rancheria responded, declining participation of tribal consultation.

General Plan

The Kerman General Plan Conservation, Open Space, Parks and Recreation Element identifies the following policies related to historic and cultural resources.

Goal COS-3 *To protect sites and structures of historical and cultural significance, and to enhance the availability of new cultural amenities.*

Policy COS-3.1 Tribal Consultation Requirements Compliance. *The City shall continue to comply with SB 18 and AB 52 by consulting with local California Native American tribes. If archaeological resources of Native American origin are identified during Project construction, a qualified archaeologist shall consult with Kerman to begin native American consultation procedures. Appropriate Native American tribes shall be contacted by the City or qualified archaeologist. As part of this process, it may be determined that archaeological monitoring may be required; a Native American monitor may also be required in addition to the archaeologist. The Project proponent shall fund the costs of the qualified archaeologist and Native*



American monitor (as needed) and required analysis and shall implement any mitigation determined to be necessary by the City, qualified archaeologist, and participating Native American tribe.

Policy COS-3.5 Discretionary Development Review for Cultural Resources. *The City shall review discretionary development Projects, as part of any required CEQA review, to identify and protect important archaeological, paleontological, and cultural sites and their contributing environment from damage, destruction, and abuse. Consistent with CEQA findings, the City shall require Project-level mitigation to include accurate site surveys, consideration of Project alternatives to preserve archaeological and paleontological resources, provisions for resource recovery, and preservation measures when displacement is unavoidable.*

The General Plan also Identifies the Plaza Veterans Park as of particular significance because it retains much of its early 20th Century form. The City also recognizes the importance of new cultural programs and events to enhance the quality of life of residents as part of the city's cultural resources.

4.5.2 Impact Assessment

Would the Project:

a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Less than Significant with Mitigation Incorporated. Based on the CHRIS Records Search conducted on March 4, 2024, there are no known local, state, or federal designated historical resources pursuant to *Section 15064.5* in the Project Area. While there is no evidence that historical resources exist on the Project Area, there is some possibility that hidden and buried resources may exist with no surface evidence that may be impacted by future physical development. In the event of the accidental discovery and recognition of previously unknown historical resources before or during construction activities, the Project shall also incorporate ***Mitigation Measure (MM) CUL-1*** to assure construction activities do not result in significant impacts to any potential historical resources discovered below ground surface. Thus, if such resources were discovered, implementation of the required mitigation measures would reduce the impact to less than significant. As a result, the Project would have a less than significant impact with mitigation incorporated.

Mitigation Measure CUL-1: *In order to avoid the potential for impacts to historic and prehistoric archaeological resources, the following measures shall be implemented, as necessary, in conjunction with the construction of each phase of the Project:*

Mitigation Measure CUL-1: *In order to avoid the potential for impacts to historic and prehistoric archaeological resources, the following measures shall be implemented in conjunction with the construction of each phase of the Project:*

If previously unknown historical, archeological, cultural, or paleontological resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified archeologist, historical resources specialist, or paleontologist, shall be consulted to determine whether the resource requires further study. Notification of discovery shall be provided to the City of Kerman Community Development Department.

The qualified archeologist, historical resources specialist, or paleontologist shall make recommendations to the project proponent on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA



Guidelines and City's policies and procedures related to historical, cultural, and paleontological resources. Notification of the measures shall be provided to the City of Kerman Community Development Department.

If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the project proponent, who shall notify the City of Kerman Community Development Department. Appropriate measures for significant resources could include avoidance or capping, preservation in-place, recordation, additional archeological resting, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the City of Kerman Community Development Department approves the measures to protect these resources. Any historical, archeological, cultural, or paleontological artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less than Significant Impact with Mitigation Incorporated. Based on the CHRIS Records Search conducted March 4, 2024, there are no known archeological resources pursuant to *Section 15064.5* in the Project Area. While there is no evidence that archeological resources exist, there is some possibility that existing structures qualify as historical resources or hidden and buried resources may exist with no surface evidence that may be impacted by future physical development. In the event of the accidental discovery and recognition of previously unknown historical resources before or during construction activities, the Project shall incorporate **MM CUL-1** as described under criterion a) to ensure construction activities do not result in significant impacts to any potential archeological resources discovered above or below ground surface. Thus, if such resources were discovered, implementation of the required mitigation measures would reduce the impact to less than significant. As a result, the Project would have a less than significant impact with mitigation incorporated.

c) Disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant Impact. There is no evidence that human remains exist in the Project Area. Nevertheless, there is some possibility that a non-visible buried site may exist and may be uncovered during ground disturbing construction activities which would constitute a significant impact. If any human remains are discovered during construction, then the Project would be subject to CCR *Section 15064.1*), PRC *Section 5097.98*, and California Health and Safety Code *Section 7050.5*. Regulations contained in these sections address and protect human burial remains. Compliance with these regulations would ensure impacts to human remains, including those interred outside of formal cemeteries, are less than significant.

4.5.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Cultural Resources related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.6 ENERGY

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

4.6.1 Environmental Setting

The Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum was prepared by LSA (dated July 30, 2024). The modeling parameters, assumptions, findings report, and appendices are provided in [Appendix A](#). Results are incorporated herein.

It should be noted that the Memorandum analyzed the development of 179 single-family lots; however, only 172 single-family lots are proposed for the latest iteration of the Tentative Tract Map. This should not affect the outcome of the analysis since the proposed development of 172 lots would have a less impact than 179 lots that were analyzed in the Memorandum. In addition to the development of the Project Site (i.e., Parcel 1), the analysis also includes potential build-out of Parcel 2 under the Mixed Use land use designation, with the assumption of 150 multi-family dwelling units and 13,500 square-foot of commercial uses. While the emissions of both the proposed subdivision and Parcel 2 are analyzed, future development Parcel 2 may still require additional CEQA analysis when development is proposed.

Electricity

Electricity is a manmade resource. The production of electricity requires the consumption or conversion of energy resources (including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources) into energy. Electricity is used for a variety of purposes (e.g., lighting, heating, cooling, and refrigeration, and for operating appliances, computers, electronics, machinery, and public transportation systems).

According to the most recent data available, in 2022, California's electricity was generated primarily by natural gas (47.5 percent), renewable sources (52.2 percent), large hydroelectric (7.2 percent), nuclear (8.7 percent), coal (less than 1.0 percent), and other unspecified sources. Total electric generation in California in 2022 was 287,220 gigawatt-hours (GWh), up 3.4 percent from the 2021 total generation of 277,764 GWh.⁴

The Project Area receives its electricity from Pacific Gas and Electric (PG&E). According to the California Energy Commission (CEC), total electricity consumption in the PG&E service area in 2022 was 104,695.0 GWh (35,245.7 GWh for the residential sector and 69,449.3 GWh for the nonresidential sector). Total electricity consumption in Fresno County in 2022 was 8,384.4 GWh (or 8,384,408,687 kilowatt-hours [kWh]).



Natural Gas

Natural gas is a nonrenewable fossil fuel. Fossil fuels are formed when layers of decomposing plant and animal matter are exposed to intense heat and pressure under the surface of the Earth over millions of years. Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas is found in naturally occurring reservoirs in deep underground rock formations. Natural gas is used for a variety of uses (e.g., heating buildings, generating electricity, and powering appliances such as stoves, washing machines and dryers, gas fireplaces, and gas grills).

Natural gas consumed in California is used for electricity generation (45 percent), residential uses (21 percent), industrial uses (25 percent), and commercial uses (9 percent). California continues to depend on out-of-state imports for nearly 90 percent of its natural gas supply.

PG&E is the natural gas service provider for the project site. According to the CEC, total natural gas consumption in the PG&E service area in 2022 was 4,449.2 million therms (1,866.2 million therms for the residential sector and 2,583.0 million therms for the nonresidential sector). Total natural gas consumption in Fresno County in 2022 was 319.4 million therms (319,435,645 therms).

Fuel

Petroleum is also a nonrenewable fossil fuel. Petroleum is a thick, flammable, yellow-to-black mixture of gaseous, liquid, and solid hydrocarbons that occurs naturally beneath the Earth's surface. Petroleum is primarily recovered by oil drilling. It is refined into a large number of consumer products, primarily fuel oil, gasoline, and diesel.

The average fuel economy for light-duty vehicles (autos, pickups, vans, and sport utility vehicles [SUVs]) in the United States has steadily increased from about 14.9 miles per gallon (mpg) in 1980 to 22.9 mpg in 2021. Federal fuel economy standards have changed substantially since the Energy Independence and Security Act was passed in 2007. This act, which originally mandated a national fuel economy standard of 35 mpg by year 2020, applies to cars and light trucks of Model Years 2011 through 2020. In March 2020, the USEPA and National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy standards for Model Years 2024–2026 Passenger Cars and Light Trucks, further detailed below.

Gasoline is the most-used transportation fuel in California, with 97 percent of all gasoline being consumed by light-duty cars, pickup trucks, and SUVs. According to the most recent data available, in 2022, total gasoline consumption in California was 316,425 thousand barrels or 1,597.6 trillion British Thermal Units (BTU). Of the total gasoline consumption, 299,304 thousand barrels or 1,511.2 trillion BTU were consumed for transportation. Based on fuel consumption obtained from CARB's California Emissions Factor Model, Version 2021 (EMFAC2021), approximately 366.2 million gallons of gasoline and approximately 157.8 million gallons of diesel will be consumed from vehicle trips in Fresno County in 2024.

City of Kerman 2040 General Plan

The City's General Plan Energy Resource Conservation section under the Conservation, Open Space, and Recreation Element includes objectives and policies that work to minimize energy consumption and reduce greenhouse gas emissions as part of the statewide effort to combat climate change. The following policies related to energy are applicable to the proposed project:



Policy COS-5.1: Reduction of Fossil Fuels Reliance. The City shall promote the development and use of renewable energy resources (e.g., solar, thermal, wind, tidal) to reduce dependency on petroleum-based energy sources.

Policy COS-5.3: Sustainable Building Practices. The City shall promote sustainable building practices that incorporate a “whole systems” approach to design and construction that consumes less energy, water, and other non-renewable resources, such as facilitating passive ventilation and effective use of daylight.

Policy COS-5.4: Renewable Energy Features in New Projects. During the development review process, the City shall encourage projects to integrate features that support the generation, transmission, efficient use, and storage of renewable energy sources.

Policy COS-5.6: Electric Vehicle Charging. The City shall encourage and support expanding Electric Vehicle (EV) charging stations and the purchase of electric vehicles.

Policy COS-5.7: Energy Conservation Awareness. The City shall increase awareness about energy efficiency and conservation to encourage residents, businesses, and industries to conserve energy.

Moreover, the City’s General Plan has an Energy Conservation and Sustainable Development objective under the Housing Element which aims to encourage energy efficiency in all new and 2015–2023 housing. The following policies related to sustainability and energy are applicable to the proposed project:

Policy HE-6.1: Energy Conservation in New Housing. The City shall encourage the use of energy conserving techniques in the siting and design of new housing.

Policy HE-6.2: State Energy Conservation Requirements. The City shall actively implement and enforce all State energy conservation requirements for new residential construction.

Methodology

The analysis focuses on the four sources of energy that are relevant to the proposed Project: natural gas, electricity, the equipment fuel necessary for project construction, and vehicle fuel necessary for Project operations. For the purposes of this analysis, the amounts of electricity, natural gas, construction fuel, and fuel use from operations are quantified and compared to that consumed in Fresno County. The electricity and natural gas uses of the proposed project are analyzed on an annual basis. Electricity and natural gas uses were estimated for the Project using default energy intensities by land use type in CalEEMod.

4.6.2 Impact Assessment

Would the Project:

- a) ***Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?***

Less than Significant Impact.

Construction Energy Demand

The anticipated construction schedule assumes that the proposed Project would be built in approximately 27 months. Construction-specific phases were assessed for their energy consumption under each construction sub-phase: grading, site preparation, building construction, paving, and architectural coating activities.



Construction would require energy for the manufacture and transportation of construction materials, preparation of the site for grading and building activities, and construction of the building. All or most of this energy would be derived from nonrenewable resources. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. However, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the Project. Energy (i.e., fuel) usage on the Project Area during construction would be temporary in nature and would be relatively small in comparison to the State’s available energy sources.

Operation Energy Demand

Energy use associated with the proposed Project would consist of natural gas, electricity, and vehicle fuel use associated with Project operations.

Table 4-7 shows the estimated potential increased electricity, gasoline, and diesel demand associated with the proposed project. The electricity and natural gas rates are from the CalEEMod analysis, while the gasoline and diesel rates are based on the traffic analysis in conjunction with USDOT fuel efficiency data and using the USEPA’s fuel economy estimates for 2020 and the California diesel fuel economy estimates for 2021.

Table 4-7 Estimated Annual Energy Use of Proposed Project

	Electricity Use (kWh per year)	Natural Gas Use (kBtu per year)	Gasoline (gallons per year)	Diesel (gallons per year)
Proposed Project	1,673,038	69,653	173,093	132,007

Source: Compiled by LSA (July 2024).

kBTU = thousand British thermal units; kWh = kilowatt hours

As shown in **Table 4-7**, the estimated increase in electricity demand associated with the operation of the proposed Project would be 1,673,038 kWh per year. Total electricity consumption in Fresno County in 2022 was 8,384,408,687 kWh; therefore, operation of the proposed Project would negligibly increase the annual electricity consumption in Fresno County by approximately less than 0.1 percent.

As shown in **Table 4-7**, the estimated increase in natural gas demand associated with the operation of the proposed Project would be 69,653 therms per year. Total natural gas consumption in Fresno County in 2022 was 319,435,645 therms; therefore, operation of the proposed Project would negligibly increase the annual electricity consumption in Fresno County by approximately less than 0.1 percent.

In addition, the Project would result in energy usage associated with motor vehicle gasoline to fuel Project-related trips. As shown above in **Table 4-7**, the proposed Project would result in the consumption of 173,093 gallons of gasoline and 132,007 gallons of diesel per year. Based on fuel consumption obtained from EMFAC2021, approximately 343.3 million gallons of gasoline and approximately 155.8 million gallons of diesel will be consumed from vehicle trips in Fresno County in 2027. Therefore, vehicle trips associated with the proposed Project would increase the annual fuel use in Fresno County by approximately 0.1 percent for gasoline fuel usage and approximately 0.1 percent for diesel fuel usage. The proposed Project would result in fuel usage that is a small fraction of current annual fuel use in Fresno County, and fuel consumption associated with vehicle trips generated by Project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region. Therefore, gasoline demand generated by vehicle trips associated with the proposed Project would be a minimal fraction of gasoline and diesel fuel consumption in California.



Furthermore, the proposed Project would be constructed using energy efficient modern building materials and construction practices, and the proposed Project also would use new modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed Project would be consistent with typical usage rates for residential uses; however, energy consumption is largely a function of personal choice and the physical structure and layout of buildings.

PG&E is the private utility that would supply the proposed project's electricity. In 2021, a total of 50 percent of PG&E's delivered electricity came from renewable sources, including solar, wind, geothermal, small hydroelectric, and various forms of bioenergy. PG&E reached California's 2020 renewable energy goal in 2017 and is positioned to meet the State's 60 percent by 2030 renewable energy mandate set forth in SB 100. In addition, PG&E plans to continue to provide reliable service to its customers and upgrade its distribution systems as necessary to meet future demand. As such, the proposed Project would not result in a potential significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less than Significant Impact. The CEC recently adopted the 2023 Integrated Energy Policy Report. The 2023 Integrated Energy Policy Report provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The 2023 Integrated Energy Policy Report covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecasts, and the California Energy Demand Forecast.

As indicated above, energy usage on the Project Area during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. In addition, energy usage associated with operation of the proposed Project would be relatively small in comparison to the region's available energy sources, and energy impacts would be negligible at the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the Project's total impact on regional energy supplies would be minor, the proposed Project would not conflict with or obstruct California's energy conservation plans as described in the CEC's 2023 Integrated Energy Policy Report. Therefore, the proposed Project would not lead to new or substantially more severe energy impacts. As such, the Project would have a less than significant impact.

4.6.3 Mitigation Measures

None required.



4.7 GEOLOGY AND SOILS

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Directly or Indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				X
ii. Strong seismic ground shaking?			X	
iii. Seismic-related ground failure, including liquefaction?			X	
iv. Landslides?				X
b) Result in substantial soil erosion or the loss of topsoil?			X	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?			X	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				X
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?				X
f) Directly or indirectly destroy a unique paleontological resource or site or		X		



unique geologic feature?				
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4.7.1 Environmental Setting

The City of Kerman is in the San Joaquin Valley which is one of the two large valleys comprising the Great Valley Geomorphic Province. The San Joaquin Valley is surrounded by Sierra Nevada (east), Coast Ranges (west), Tehachapi (south), and the Sacramento Valley (north). A brief discussion of the likelihood of seismic activities to occur in or affect Fresno is provided below. The following discussion is based on the Fresno County Multi-Jurisdictional Hazard Mitigation Plan (HMP) adopted in May 2018 as well as the Kerman General Plan Public Health and Safety Element.⁷

Faulting

There are no known active faults in the city, inclusive of the Project Area. No Alquist-Priolo Earthquake Fault zoning has been established for the city. The nearest active fault and Alquist-Priolo Fault zoning to the city is the Ortigalita Fault, which is located approximately 46 miles west of the Project Area.⁸ Due to the distance from an active fault, there is low potential for ground rupture in the city.

Ground Shaking

According to the HMP, Kerman is in an area that is seismically active; however, the potential for dangerous seismic activity is slight. This is due to the city’s long distance to faults. The most notable past earthquake in Kerman is the Coalinga earthquake in 1983, which measured magnitude 6.7 on the Richter scale. The earthquake did not cause any damage in Kerman but was felt by residents.

Liquefaction

Liquefaction primarily occurs in areas of recently deposited sands and silts and in areas of high groundwater levels. Susceptible areas include sloughs and marshes that have been filled in and developed over. In addition to necessary soil conditions, liquefaction is induced by intense and prolonged ground shaking, usually above a ground acceleration of 0.3g before liquefaction occurs within sandy soil with relative densities typical of the San Joaquin alluvial deposits. Based on historic aerial imagery and search of the National Wetlands Inventory (**Section 4.10**), the Project Area does not include former or current waters (streams, drainages, wetlands) that have been drained, filled, and developed.

Erosion

Wind and flowing water are the primary agents of erosion in the San Joaquin Valley. Two types of areas with moderate to high erosion potential are identified by the HMP: soils in the Sierra Nevada and foothills on slopes over 30 percent and soils in the western San Joaquin Valley and Coast Ranges. According to the HMP, Kerman has a low significance for erosion hazards.

⁷ County of Fresno. (2018). Fresno County Multi-Jurisdictional Hazard Mitigation Plan. Accessed on August 5, 2024, <https://www.fresnocountyca.gov/files/sharedassets/county/public-health/fresno-county-hmp-final.pdf>

⁸ California Department of Conservation. “CGS Seismic Hazard Program: Alquist-Priolo Fault Hazard Zones.” Accessed on August 5, 2024, <https://gis.data.ca.gov/maps/ee92a5f9f4ee4ec5aa731d3245ed9f53/explore?location=37.213952%2C-117.946341%2C7.19>



Ground Subsidence

Ground subsidence is the settling or sinking of surface soil deposits with little or no horizontal motion. Soils with high silt or clay content are subject to subsidence. While the County of Fresno identifies a significant hazard significance for subsidence due to heavy groundwater withdrawal, Kerman has a low significance for subsidence hazards. Areas with potential for subsidence hazards are in western Fresno County over 26 miles southwest from the Project Area, as mapped in the HMP.

Subsurface Soils

A search of the Web Soil Survey by the USDA Natural Resources Conservation Service indicates that the following soils comprise the annexation boundary and Project site. **Figure 4-2** shows the location of these soils. ⁹

***Ha:** Hanford coarse sandy loam, 0 to 2 percent slopes, well drained, very low runoff, with no potential of flooding and ponding. The depth to water table is more than 80 inches. The Ha soils account for 7.5% of the Project Area.*

***Hg:** Hanford sandy loam, silty substratum, 0 to 2 percent slopes, well drained, very low runoff, with no potential of flooding and ponding. The depth to water table is more than 80 inches. The Hg soils account for 75.1% of the Project Area.*

***Hsm:** Hesperia sandy loam, deep, 0 percent slope, well drained, negligible runoff, with rare potential of flooding and no potential of ponding. The depth to water table is more than 80 inches. The Hsm soils account for 3.9% of the Project Area.*

***TzbA:** Tujunga loamy sand, 0 to 3 percent slopes, somewhat excessively drained, very low runoff, with occasional potential of flooding and no potential of ponding. The depth to water table is more than 80 inches. The TzbA soils account for 13.5% of the Project Area.*

California Building Code

The California Code of Regulations (CCR) Title 24 is assigned to the California Building Standards Commission, which, by law, is responsible for coordinating all building standards. The California Building Code incorporates by reference the International Building Code with necessary California amendments. About one-third of the text within the California Building Standards Code has been tailored for California earthquake conditions. These standards are applicable to all new buildings and are required to provide the necessary safety from earthquake related effects emanating from fault activity.

General Plan

The Kerman General Plan includes objectives and policies relevant to natural hazards in the Public Health and Safety Element to mitigate for earthquakes, liquefaction, flooding, landslides, and erosion:

***Goal PH-4:** To prevent the loss of life and personal property by reducing the risk and magnitude of hazards from natural and man-made hazards, including earthquakes, floods, fires, and climate change.*

⁹ United States Department of Agriculture Natural Resources Conservation Service. "Web Soil Survey." Accessed on August 5, 2024, <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>



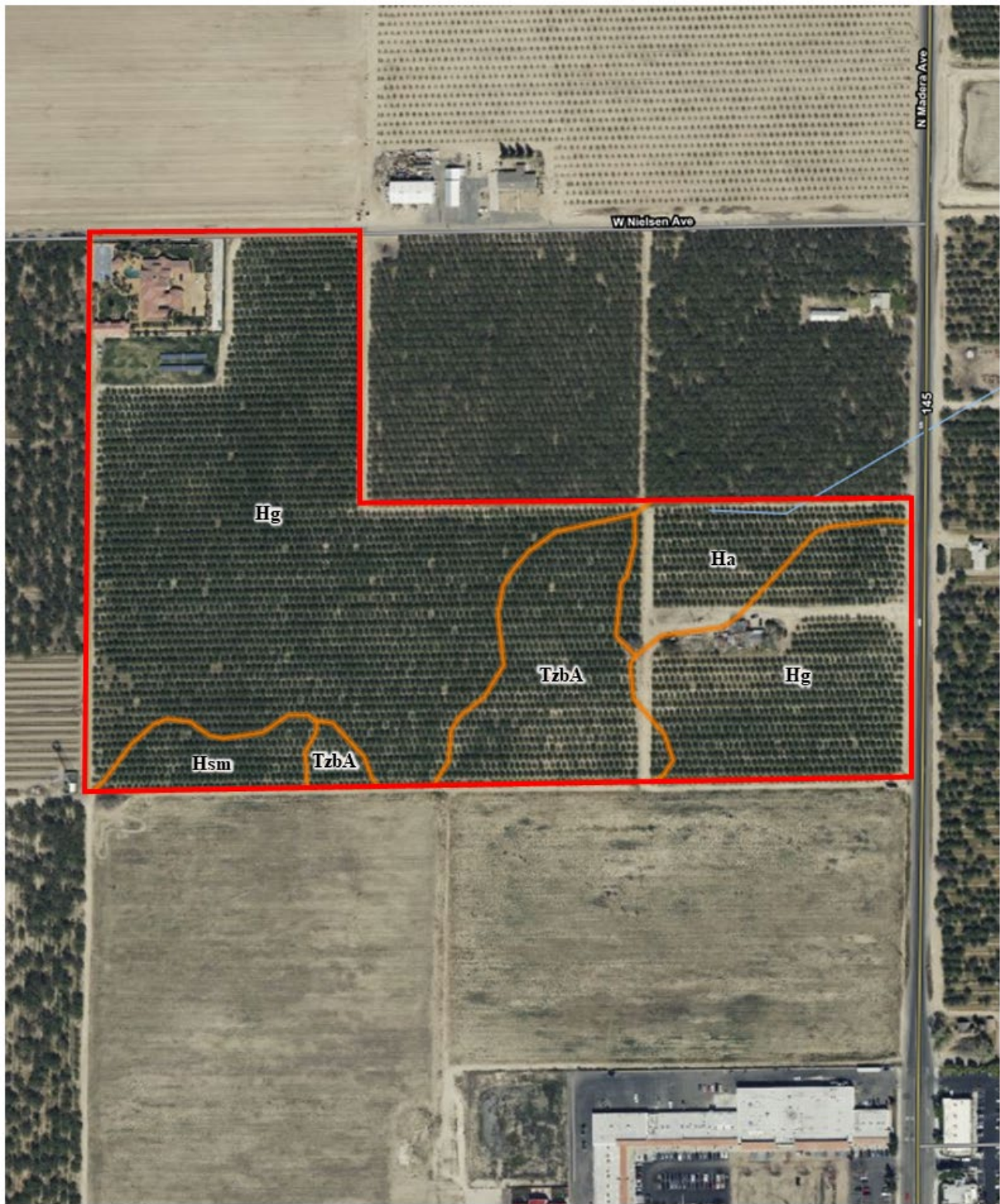
Policy PH-4.1: Hazard Mitigation Plan. The City shall continue to actively participate in and implement the Fresno County Multi-Hazard Mitigation Plan to reduce risks from natural disasters.

Policy PH-4.2: Mitigation Funding. The City shall continue to pursue funding opportunities to implement Kerman Projects that are identified in the Fresno County Multi-Hazard Mitigation Plan.

Policy PH-4.3: Building Regulations for Seismic Safety. The City shall require all new development to be constructed in accordance with the current seismic safety design standards at the time of initial building plan submittal.

Goal PH-5: To protect residents and employees from potential hazards from unreinforced masonry buildings and other substandard buildings.

Policy PH-5.1 Unreinforced Masonry Buildings Abatement/Rehabilitation. The City shall continue to abate or rehabilitate unreinforced masonry buildings, as defined by the Uniform Housing Code.



Project Location

Figure 4-2 Soils Map



4.7.2 Impact Assessment

Would the Project:

a) *Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:*

- i. *Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.*

No Impact. There are no known active earthquake faults in Kerman, inclusive of the Project Area, nor is Kerman within an Alquist-Priolo earthquake fault zone as established by the Alquist-Priolo Fault Zoning Act. Thus, the Project would not cause rupture of a known earthquake fault and therefore, would have no impact.

- ii. *Strong seismic ground shaking?*

Less than Significant Impact. The Project Area is in a zone with a low potential for dangerous seismic activity. Future development would be required to comply with current seismic protection standards in the CBC which would significantly limit potential damage to structures and thereby reduce potential impacts including the risk of loss, injury, or death. Compliance with the CBC would ensure a less than significant impact.

- iii. *Seismic-related ground failure, including liquefaction?*

Less than Significant Impact. There are no known active earthquake faults in Kerman and Kerman has historically been subject to low to moderate ground shaking. The Project Area is in an area with low susceptibility to liquefaction with no known geologic hazards or unstable soil conditions. Due to the distance from an active fault, there is low potential for ground rupture. Further, the Project Area is primarily made up of sandy loam soils that are well drained, which are less susceptible to liquefaction than silt or sands. In addition, development would be required to comply with CBC, the city's grading and drainage standards, and specific requirements that address liquefaction. For these reasons, the Project does not have any aspect that could result in seismic-related ground failure including liquefaction and a less than significant impact would occur because of the Project.

- iv. *Landslides?*

No Impact. The topography of the Project Area is relatively flat with stable, native soils, and the site is not in the immediate vicinity of rivers or creeks that would be more susceptible to landslides. Therefore, no impact would occur because of the Project.

b) *Result in substantial soil erosion or the loss of topsoil?*

Less than Significant Impact. Soil erosion and loss of topsoil can be caused by natural factors, such as wind and flowing water, and human activity. Development of the Project Area would require typical site preparation activities such as grading and trenching which may result in the potential for short-term soil disturbance or erosion impacts. Construction would also involve the use of water which may cause further soil disturbance. Such impacts would be addressed through compliance with regulations set by the State Water Resources Control Board (SWRCB). Namely, the SWRCB requires sites larger than one (1) acre to comply with the General Permit for Discharges of Storm Water Associated with Construction Activity. The General Permit requires the development of a Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer (QSD). The SWPPP estimates the sediment risk



associated with construction activities and includes best management practices (BMP) to control erosion. BMPs specific to erosion control cover erosion, sediment, tracking, and waste management controls. Implementation of the SWPPP minimizes the potential for the Project to result in substantial soil erosion or loss of topsoil. With these provisions in place, impacts to soil and topsoil by the Project would be considered less than significant.

- c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?*

Less than Significant Impact. Ground subsidence is the settling or sinking of surface soil deposits with little or no horizontal motion. Soils with high silt or clay content are subject to subsidence. Subsidence typically occurs in areas with groundwater withdrawal or oil or natural gas extraction. The topography of the site is relatively flat with stable, native soils and no apparent unique or significant landforms. Furthermore, the Project Area is in an area of low significance for seismic activity due to its distance from faults. Such factors minimize the potential for other geologic hazards such as landslides, lateral spreading, subsidence, liquefaction, or collapse. Therefore, any development on the native, stable soils is unlikely to become unstable and result in geologic hazards. In addition, the Project would be required to comply with current seismic protection standards in the CBC which would significantly limit potential seismic-related hazards such as landslides, lateral spreading, subsidence, liquefaction, or collapse. Compliance with the CBC would ensure a less than significant impact.

- d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?*

No Impact. The Project Area is relatively flat with native soils of sandy loam, which is not expansive. Sandy loam soils are not classified as expansive soil, as defined in Table 18-1-B of the Uniform Building Code and would not create substantial direct or indirect risks to life or property. Thus, no impact would occur because of the Project.

- e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?*

No Impact. The Project Area is proposed to be annexed into Kerman's City limits and thus, would be required to connect to the city's wastewater services. Thus, no permanent septic tanks or alternative wastewater disposal systems would be installed, and no impact would occur.

- f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?*

Less than Significant Impact with Mitigation Incorporated. There are no known paleontological resources or unique geological features known to the City in the Project Area. Nevertheless, there is some possibility that a non-visible, buried site may exist and may be uncovered during ground disturbing construction activities which would constitute a significant impact. However, **Mitigation Measure (MM) CUL-1** requires that if unknown paleontological resources are discovered during construction activities, work would cease until a qualified paleontologist determined the appropriate course of action. With implementation of **MM CUL-1-1**, the Project would have a less-than-significant impact.

4.7.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Geology and Soils related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.8 GREENHOUSE GAS EMISSIONS

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?		X		
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			X	

4.8.1 Environmental Setting

The Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum was prepared by LSA (dated July 30, 2024). The modeling parameters, assumptions, findings report, and appendices are provided in [Appendix A](#). Results are incorporated herein.

It should be noted that the Memorandum analyzed the development of 179 single-family lots; however, only 172 single-family lots are proposed for the latest iteration of the Tentative Tract Map. This should not affect the outcome of the analysis since the proposed development of 172 lots would have a less impact than 179 lots that were analyzed in the Memorandum. In addition to the development of the Project Site (i.e., Parcel 1), the analysis also includes potential build-out of Parcel 2 under the Mixed Use land use designation, with the assumption of 150 multi-family dwelling units and 13,500 square-foot of commercial uses. While the emissions of both the proposed subdivision and Parcel 2 are analyzed, future development Parcel 2 may still require additional CEQA analysis when development is proposed.

The methodology follows the *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI) prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the quantification of emissions and evaluation of potential impacts to air resources. The modeling parameters, assumptions, findings report, and appendices are provided in [Appendix A](#). Results are incorporated herein.

Background

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO₂);
- Methane (CH₄);
- Nitrous oxide (N₂O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF₆).



Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally occurring GHGs (e.g., CO₂, CH₄, and N₂O), some gases (e.g., HFCs, PFCs, and SF₆) are completely new to the atmosphere.

Certain gases (e.g., water vapor) are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere (“atmospheric lifetime”). The GWP of each gas is measured relative to CO₂, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO₂ over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO₂ equivalents (CO₂e).

City of Kerman 2040 General Plan

The City’s General Plan contains policies indirectly related to GHGs and climate change. This includes measures to improve transit efficiency, reduce truck idling, increase ridesharing, promote mixed land uses, and requiring the implementation of energy saving features such as solar energy systems, water efficient landscaping, and energy efficient, sustainable building standards. The following policies related to GHG emissions from the General Plan are applicable to the proposed Project:

Policy CIRC-2.5: Greenhouse Gas Reduction. *The City shall strive to achieve VMT reductions consistent with the California Air Resources Board (CARB) 2017 Scoping Plan statewide greenhouse gas (GHG) emission reduction goals of 40 percent below 1990 emissions levels by 2030, or the latest guidance from CARB, as updated.*

Policy CIRC-5.1: Alternative Modes of Transportation. *The City shall encourage project site designs and subdivision street and lot designs that support alternative modes of transportation, including public transit, bicycling, and walking.*

Policy CIRC-5.2: Active Transportation. *The City shall encourage bicycling, walking, taking public transit, and carpooling as alternatives to driving single-passenger vehicles to reduce VMT, traffic congestion, and associated emissions from additional automobile use.*

Policy HE-1.6: Higher-Density, Mixed-Use, and Transit-Oriented Development. *The City shall promote development of higher-density housing, mixed-use, and transit-oriented development in areas located along major transportation corridors and transit routes and served by the necessary infrastructure.*

Policy COS-5.2: GHG Reduction in Coordination with Regional Agencies. *The City shall work with FCOG and the San Joaquin Valley Air Pollution Control District to develop and implement regional plans for the reduction of GHG emissions.*



Policy PH-4.5: Urban Greening. The City shall promote the use of urban greening techniques, such as cool pavement technology, parking lot shading, landscaping, and other methods to offset climate change impacts and reduce greenhouse gas emissions for discretionary development and City-initiated projects.

Methodology

GHG emissions associated with the Project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

Thresholds of Significance

Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, this analysis evaluates the GHG emissions based on the project's consistency with applicable State GHG reduction goals.

4.8.2 Impact Assessment

Would the Project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?***

Less than Significant Impact with Mitigation Incorporated. The following sections describe the proposed Project's construction- and operation-related GHG impacts and consistency with applicable GHG reduction plans.

Construction Greenhouse Gas Emissions

Construction activities associated with the proposed Project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO₂, CH₄, and N₂O. Furthermore, CH₄ is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

The SJVAPCD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are encouraged to quantify and disclose GHG emissions that would occur during construction. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed Project would be approximately 820.0 metric tons of CO₂e (MT CO₂e) per year. Construction GHG emissions were amortized over the life of the Project (assumed to be 30 years) and added to the operational emissions. When annualized over the life of the Project, amortized construction emissions would be approximately 27.3 MT CO₂e per year.

Operational Greenhouse Gas Emissions

Long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions would include Project-generated vehicle trips to and from the project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions would be generated at off-site utility providers as a result of increased electricity demand generated by the project. Waste source emissions generated by the proposed project include



energy generated by land filling and other methods of disposal related to transporting and managing Project generated waste. In addition, water source emissions associated with the proposed Project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

Following guidance from the SJVAPCD, GHG emissions for operation of the Project were calculated using CalEEMod. Based on the analysis results, summarized in **Table 4-8**, the proposed Project would result in emissions of approximately 5,192.6 MT CO₂e per year. These estimated emissions are provided for informational purposes, and the significance of the proposed Project is further analyzed below.

Table 4-8 Greenhouse Gas Emissions

Emission Type	Operational Emissions (metric tons per year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
Mobile Sources	3,685.0	0.2	0.2	3,750.4
Area Sources	107.6	0.2	<0.1	111.8
Energy Sources	1,156.6	0.2	<0.1	1,161.9
Water Sources	20.6	0.9	<0.1	52.0
Waste Sources	25.4	2.5	0.0	88.7
Amortized Construction Emissions				27.3
Total Project Operational Emissions				5,192.1

Source: Compiled by LSA (July 2024).

CH₄ = methane; CO₂ = carbon dioxide; CO₂e = carbon dioxide equivalent; N₂O = nitrous oxide

As discussed, the SJVAPCD has not established a numeric threshold for GHG emissions. The significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds or consistency with a regional GHG reduction plan (such as a Climate Action Plan [CAP]). Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, the proposed Project was analyzed for consistency with the 2022 Scoping Plan.

The 2022 Scoping Plan includes key project attributes that would reduce operational GHG emissions in its Appendix D, *Scoping Plan Appendix D Local Actions*. As discussed in this document, absent of consistency with an adequate, geographically specific GHG reduction plan such as a CEQA-qualified CAP, the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions.

The Project's consistency with key project attributes from the 2022 Scoping Plan that would be applicable to residential and mixed-use development is shown in **Table 4-9**. Residential and mixed-use projects that have all of the key project attributes as outlined in **Table 4-9** would be considered to accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals as outlined in the 2022 Scoping Plan.

Table 4-9 Project Consistency with 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
Transportation Electrification	Provides EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the CALGreen Code at the time of project approval.	Consistent with Mitigation. . CALGreen requires provision of infrastructure to accommodate Level 2 EV chargers for at least 10 percent of the total parking spaces and that at least half of the required EV chargers be equipped with J1772 connectors. Implementation of Mitigation Measure GHG-1 would be



		required to ensure the proposed project would provide electric vehicle charging. With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with this key project attribute.
VMT Reduction	Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).	Consistent. The Project Area is located in an area with a mix of land uses, including agricultural, residential and commercial uses that are presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). Therefore, the proposed Project would be consistent with this key project attribute.
	Does not result in the loss or conversion of natural and working lands.	Consistent. The Project Area is located on land that is designated as Prime Farmland or Farmland of State Importance, and conversion of the Project Area to nonagricultural uses would represent the loss of Prime Farmland. However, the Kerman 2040 General Plan <i>Policy LU-4</i> requires the development of an Agricultural Mitigation Program and equal preservation of similar agricultural land. With the implementation of this policy, the loss of farmland that would occur under the rezoning of the proposed project site was found to have a less than significant impact. With the implementation of General Plan <i>Policy LU-4</i> and equal preservation of farmland, the proposed Project would be consistent with this key project attribute.
	Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), is in proximity to existing transit stops (within a half mile), or satisfies more detailed and stringent criteria specified in the region's SCS.	Consistent. The proposed Project would result in less than 20 residential dwelling units per acre. However, the Project Area is located within 0.5 mile of a transit stop. The proposed Project would also provide pedestrian infrastructure connecting to neighboring uses, and would allow for the future development of services and employment opportunities for the proposed Project residents that generally serve to reduce VMT. As such, the Project would promote initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation. As such, the proposed Project would be consistent with this key project attribute.
	Reduces parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or sf); or providing residential parking supply at a ratio of less than one parking space per dwelling unit; or for multifamily residential development, requiring	Consistent. The proposed Project would consist of 172 single-family residential units. The proposed Project would not include reduced parking. However, the Project Area is located within 0.5 mile of a transit stop. The proposed Project would also provide pedestrian infrastructure connecting to neighboring uses. As such, the Project would promote initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation and would facilitate the future development of services and employment opportunities consistent with the proposed change in land use



	parking costs to be unbundled from costs to rent or own a residential unit.	designation. Although the proposed Project would not have reduced parking, it would still be consistent with the intent of this measure for reducing VMT.
	At least 20 percent of units included are affordable to lower-income residents.	Consistent. The proposed Project would not include affordable residential units. However, the proposed Project would include residential units that would be in close proximity to commercial uses and would allow residents to live within a 0.5-mile radius distance to the commercial zones. Although the proposed Project would not include affordable housing, the proposed Project would provide needed single-family housing. Therefore, the proposed Project would be consistent with this key project attribute.
	Results in no net loss of existing affordable units.	Consistent. The proposed Project would not result in the removal of any existing residential units. As such, the proposed Project would be consistent with this key project attribute.
Building Decarbonization	Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.	Consistent. The proposed Project would be consistent with State building code requirements as Title 24 advances to implement the building decarbonization goals from the 2022 Scoping Plan. As such, the proposed Project would be consistent with this key project attribute.

Source: Compiled by LSA (July 2024).

CALGreen Code = California Green Building Standards Code; EV = electric vehicle; GHGs = greenhouse gases; SCS = Sustainable Communities Strategy; sf = square foot/feet; VMT = vehicle miles traveled

The proposed Project would be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to building electrification. It is not yet known whether the proposed Project would include the electric vehicle charging; therefore, implementation of **Mitigation Measure GHG-1** would be required to ensure the proposed Project would provide electric vehicle charging consistent with CALGreen and the 2022 Scoping Plan Key Attribute. With implementation of **Mitigation Measure GHG-1**, the proposed Project would be consistent with this design element. Therefore, with **Mitigation Measure GHG-1**, the proposed Project would be consistent with all project attributes in the 2022 Scoping Plan GHG emission thresholds. As such, the proposed Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment with mitigation incorporated.

Mitigation Measure GHG-1 Prior to the approval of building permits, in order to meet with all project attributes in the 2022 Scoping Plan greenhouse gas emission thresholds, the project proponent shall present documentation to the satisfaction of the City of Kerman Community Development Department that each residential unit shall provide electric vehicle charging capabilities that meet the requirements of the latest version of the California Green Building Standards Code (CALGreen) Tier 2 Voluntary Standards as part of the final project designs.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant Impact. The proposed Project is further analyzed for consistency with the goals of the 2022 Scoping Plan and Fresno COG's RTP.

2022 Scoping Plan



The following discussion evaluates the proposed Project according to the goals of the 2022 Scoping Plan, EO B-30-15, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,³³ to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts (including new technologies and new policy) and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As demonstrated in the preceding section, the proposed Project would be consistent with the project Key Attributes from the Scoping Plan. Therefore, the proposed Project would support State goals aimed to conserve and reduce consumption of resources (e.g., energy and water). In addition, the proposed Project would be required to comply with the latest Title 24 standards of the CCR, established by the CEC, regarding energy conservation and green building standards. Therefore, the proposed Project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. The Project would comply with the CALGreen Code, which includes a variety of different measures, including the reduction of wastewater and water use. In addition, the proposed Project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed Project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed Project. The second phase of Pavley II (LEV III) Advanced Clean Cars Program will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the Project Area would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed Project would not conflict with the identified transportation and motor vehicle measures.

Fresno COG's 2022 RTP/SCS



The Fresno COG RTP/SCS reflects transportation planning for Fresno County through 2046. The vision, goals, and policies in the 2022 RTP are intended to serve as the foundation for both short and long-term planning and guide implementation activities. The core vision in the 2022 RTP is to create a region of diverse, safe, resilient, and accessible transportation options that improve the quality of life for all residents by fostering sustainability, equity, a vibrant economy, clean air, and healthy communities. The 2022 RTP contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as forecast development that is generally consistent with regional-level general plan data. The actions in the 2022 RTP address all transportation modes (e.g., highways, local streets and roads, mass transportation, rail, bicycle, and aviation facilities and services) and consists of short and long-term activities that address regional transportation needs. While the actions are organized by the five key policy areas, many of them support multiple goals and policies. Some actions are intended to support the SCS and reduce GHG emissions directly, while others are focused on the RTP's broader goals. The 2022 RTP does not require that local General Plans, Specific Plans, or zoning be consistent with the 2022 RTP but provides incentives for consistency for governments and developers.

The proposed Project would not interfere with the Fresno COG's ability to achieve the region's GHG reductions. Furthermore, the proposed Project is not regionally significant per *State CEQA Guidelines* Section 15206, and it would not conflict with the 2022 RTP targets because those targets were established and are applicable on a regional level. The proposed Project is consistent with growth assumptions used in the 2022 RTP. Therefore, it is anticipated that implementation of the proposed Project would not interfere with Fresno COG's ability to implement the regional strategies outlined in the 2022 RTP.

The proposed Project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP and would be consistent with applicable State plans and programs designed to reduce GHG emissions. Therefore, the proposed Project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing GHG emissions. As such, the Project would have a less than significant impact.

4.8.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Greenhouse Gas Emissions related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.9 HAZARDS AND HAZARDOUS MATERIAL

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			X	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			X	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?		X		
e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project Area?				X
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			X	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			X	

4.9.1 Environmental Setting

For the purposes of this section, the term “hazardous materials” refers to “injurious substances,” which include flammable liquids and gases, poisons, corrosives, explosives, oxidizers, radioactive materials, and medical supplies and waste. These materials are either generated or used by various commercial and industrial activities. Hazardous



wastes are injurious substances that have been or will be disposed. Potential hazards arise from the transport of hazardous materials, including leakage and accidents involving transporting vehicles. There also are hazards associated with the use and storage of these materials and wastes. Hazardous materials are grouped into the following four categories based on their properties:

- Toxic: causes human health effect
- Ignitable: has the ability to burn
- Corrosive: causes severe burns or damage to materials
- Reactive: causes explosions or generates toxic gases

“Hazardous wastes” are defined in California Health and Safety Code *Section 25141(b)* as wastes that: “...because of their quantity, concentration, or physical, chemical, or infectious characteristics, [may either] cause or significantly contribute to an increase in mortality or an increase in serious illness or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.” A hazardous waste is any hazardous material that is discarded, abandoned, or slated to be recycled. If improperly handled, hazardous materials and hazardous waste can result in public health hazards if released into the soil or groundwater or through airborne releases in vapors, fumes, or dust. Soil and groundwater having concentrations of hazardous constituents higher than specific regulatory levels must be handled and disposed of as hazardous waste when excavated or pumped from an aquifer. The California Code of Regulations, Title 22, *Sections 66261.20-24* contains technical descriptions of toxic characteristics that could cause soil or groundwater to be classified as hazardous waste.

Hazardous waste generators may include industries, businesses, public and private institutions, and households. Federal, state, and local agencies maintain comprehensive databases that identify the location of facilities using large quantities of hazardous materials, as well as facilities generating hazardous waste. Some of these facilities use certain classes of hazardous materials that require risk management plans to protect surrounding land uses. The release of hazardous materials would be subject to existing federal, State, and local regulations and is similar to the transport, use, and disposal of hazard materials.

Regulatory Setting

The California Environmental Protection Agency (CalEPA) was established in 1991 to protect the environment. CalEPA oversees the Unified Program through Certified Unified Program Agencies (CUPAs), which consolidates six (6) environmental programs to ensure the handling of hazardous waste and materials in California. The local CUPA in Fresno County, HazMat Compliance Program, oversees the following six (6) CUPA programs: ¹⁰

- Hazardous Materials Business Plan (HMBP)
- California Accidental Release Program (CalARP)
- Underground Storage Tank Program (UST)
- Aboveground Storage Tank Program (APSA)
- Hazardous Waste Generator Program

¹⁰ County of Fresno. HazMat Compliance: The Designated CUPA. Accessed on August 23, 2023, <https://www.fresnocountyca.gov/Departments/Public-Health/Environmental-Health/HazMat-Compliance-The-Designated-CUPA>



- Tiered Permitting Program

The Department of Toxic Substances Control (DTSC) is another agency in California that regulates hazardous waste, conducts inspections, provide emergency response for hazardous materials-related emergencies, protect water resources from contamination, removing wastes, etc. DTSC acts under the authority of Resource Conservation and Recovery Act (RCRA) and California Health and Safety Code. The DTSC implements California Code of Regulations (CCR) Title 22 Division 4.5 to manage hazardous waste. Government Code *Section 65962.5* requires that DTSC shall compile and update at least annually a list of:

- (1) All hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code (“HSC”).*
- (2) All land designated as hazardous waste property or border zone property pursuant to Article 11 (commencing with Section 25220) of Chapter 6.5 of Division 20 of the Health and Safety Code.*
- (3) All information received by the Department of Toxic Substances Control pursuant to Section 25242 of the Health and Safety Code on hazardous waste disposals on public land.*
- (4) All sites listed pursuant to Section 25356 of the Health and Safety Code.*
- (5) All sites included in the Abandoned Site Assessment Program.*

This list of hazardous waste sites in California, referred to as the Cortese List, is then distributed to each city and county. According to the CCR Title 22, soils excavated from a site containing hazardous materials are considered hazardous waste, and remediation actions should be performed accordingly. Cleanup requirements are determined case-by-case by the jurisdiction.

Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment (ESA) was performed at the Project site in accordance with the current Standards for Practice for Phase I ESA per the American Society for Testing and Materials (ASTM): E1527-21 guidelines. The respective analyses were conducted specifically for APN 020-120-03S and 020-120-06. The Phase I ESA was performed by TECHNICON Engineering Services, Inc., in order to provide an indication whether hazardous materials and or soil contamination may be present on the Project site. The report (dated March 7, 2024) is attached as **Appendix G**. Results are incorporated herein.

The ASTM E1527-21 defines recognized environmental conditions as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized as environmental conditions. De minimis conditions generally do not present a material risk of harm to public health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

ASTM E1527-21 defines recognized environmental conditions (RECs) as “(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject



property under conditions that pose a material threat of a future release to the environment.” This assessment has revealed no evidence of RECs in connection with the subject property.

ASTM E1527-21 defines controlled recognized environmental conditions (CRECs) as “a recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitation or other property use limitations).” This assessment has revealed no evidence of CRECs in connection with the subject property.

ASTM E1527-21 defines historical recognized environmental conditions (HRECs) as “a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations).” This assessment has revealed no evidence of HRECs in connection with the subject property.

Based on the findings, no further environmental investigation is warranted at this time. However, this assessment recommend that the empty drum be properly disposed.

Record Search

The United States Environmental Protection Agency (EPA) Superfund National Priorities List (NPL)¹¹, California Department of Toxic Substance Control’s EnviroStor database ¹², and the State Water Resources Control Board’s GeoTracker database ¹³ include hazardous release and contamination sites. A search of each database was conducted on August 6, 2024. The searches revealed no hazardous material release sites on the Project Area. The closest hazardous site is the Kerman proposed elementary school and high school athletic facilities school investigation cleanup site located south to the Project Area. The potential contaminants of concern are from past agricultural uses; however, no further action is required as of October 7, 2016 for this site.

General Plan

The General Plan include objectives and policies relevant to hazards and hazardous materials in its Public Health and Safety Element:

Goal PH-6 To protect residents from exposure to hazardous materials and wastes.

Policy PH-6.1 Avoidance of Natural Resources Contamination. The City shall require that uses generating hazardous materials and wastes do not contaminate air, water, or soil resources.

¹¹ United States Environmental Protection Agency. Superfund National Priorities List. Accessed August 6, 2024, <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1>

¹² California Department of Toxic Substances Control. Envirostor. Accessed August 6, 2024, <https://www.envirostor.dtsc.ca.gov/public/>

¹³ California State Water Resources Control Board. GeoTracker. Accessed August 6, 2024, <https://geotracker.waterboards.ca.gov/>



Policy PH-6.2 Location of New Hazardous Uses. The City shall require that proposed activities and land uses that use, store, or dispose of hazardous materials or wastes be located in the industrial area in the southern portion of the city.

Policy PH-6.3 Emergency Preparedness Plan for New Projects with Hazardous Materials. The City shall require new Projects that are using, producing, or generating hazardous materials, such as cold storage facilities, prepare an emergency preparedness plan.

Policy PH-6.4 Household Hazardous Waste Education. The City shall support educational programs that inform the public about household hazardous waste and proper disposal methods.

Policy PH-6.5 Integrated Pest Management Practices. The County shall encourage and support the use of Integrated Pest Management practices to reduce pesticide use and human health risks.

Policy PH-6.6 Notification of Pesticide Application. The City will work to obtain notification of the application of restricted materials (pesticides applied by spray techniques) for areas inside or within the ¼ mile of the Kerman Planning Area.

4.9.2 Impact Assessment

Would the Project:

- a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?***

Less than Significant Impact. The Project proposes a residential development on Parcel 1. The type of hazardous materials that would be associated with Project operations are those typical of residential uses such as cleaning supplies and HVAC equipment. Because of the proposed residential use, it is not expected that the Project would routinely transport, use, or dispose of hazardous materials other than those typical of residential uses and such materials would not be of the type or quantity that would pose a significant hazard to the public.

Some appliances and electronics used or stored by residents may contain hazardous components (e.g., refrigerants, oils, etc.); however, these hazardous components are regulated by the EPA under the Toxic Substances Control Act and Clean Air Act and transport of such components are regulated by the U.S. Department of Transportation, Office of Hazardous Materials Safety as implemented in California by Title 13 of the California Code of Regulations (CCR), California Building Code, and Uniform Fire Code, as adopted by the City. Through compliance with regulations, appliances and electronics associated with the Project are not expected to create a significant hazard to the public or the environment.

The Project also includes a General Plan Amendment that changes Parcel 2 of the Project Area from the General Commercial land use designation to the Mixed Use land use designation. According to the Kerman Municipal Code Section 17.45, the Mixed Use District permits or conditionally permits all uses within the General Commercial, Neighborhood Commercial, Professional and Administrative Office, and R-3 Multiple-Family Residential Districts. As such, future development of Parcel 2 could include retail, restaurant, services, offices, and residential uses. Since no development is proposed on Parcel 2 as part of the Project, future development of Parcel 2 is not analyzed here. Future development of Parcel 2 would require additional environmental review under CEQA.



Potential impacts during construction of the Project could result from the use of fuels and lubricants for construction equipment. However, these impacts would be short-term and temporary, and would be reduced to less than significant levels through compliance with local, state, and federal regulations including but not limited to compliance with EPA's oil spills prevention and preparedness regulations, California Office of Emergency Services implementation of hazardous materials accident prevention, and California Department of Toxic Substance Control permitting, and regulations as administered by Fresno County, in addition to standard equipment operating practices as indicated in operator manuals. Therefore, the Project would have a less than significant impact.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact. As described under criterion a), it is not anticipated that the Project itself would involve any operations that would require routine transport, use, or disposal of hazardous materials and therefore is not anticipated to create a significant hazard to the public or the environment through release of hazardous materials, including any reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. While potential impacts would occur through construction-related transport and disposal of hazardous materials, such impacts would be short-term and temporary, and would be reduced to less than significant levels through compliance with local, state, and federal regulations in addition to standard equipment operating practices as described under criterion a). Therefore, the Project would have a less than significant impact.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant Impact. An elementary school is located adjacent to the Project Area, south of the Project site. As described under criteria a) and b) above, the Project is not anticipated to emit hazard emissions or handle hazardous materials, substances, or water that would pose a risk or threat to the school or surrounding area. Therefore, a less than significant impact would occur.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less than Significant with Mitigation Incorporated. According to NPL, EnviroStor, and GeoTracker, the Project site does not include any hazardous material release sites pursuant to Government Code *Section 65962.5*. The Phase 1 ESA found no evidence of RECs, CRECs, and HRECs in connection with the subject property. However, according to the site reconnaissance conducted on February 22, 2024, the structure on the southeastern portion of the site was constructed prior to the 1978 ban on the manufacture of friable asbestos containing material. In addition, since the site has historically been operated with agricultural uses, there is a potential for agricultural pesticides on site.

Mitigation Measure HAZ-1, HAZ-2, and HAZ-3 establish further assessment to ensure that the items of concern are assessed. As such, the Project would not create a significant hazard to the public or the environment with mitigation measures incorporated. Impacts would be less than significant.

Mitigation Measure HAZ-1: Asbestos Survey. *Prior to the demolition or renovation of any existing structure on site, an Asbestos Survey shall be conducted to determine the quantity of asbestos-containing construction material to be removed in the Project. As regulated by National Emission Standards for Hazardous Air Pollutants (NESHAP), the inspection must be conducted by a Cal-OSHA Certified Asbestos Consultant (CAC). The Asbestos Survey report shall*



be submitted to the City of Kerman Community Development Department for review and approval. Alternatively, if the developer is opting to treat all of the material as RACM and will notify as such, the survey may be bypassed.

A completed and signed Asbestos Notification Form must be submitted to the San Joaquin Valley Air Pollution Control District (SJVAPCD) 10 working days prior to the commencement of any regulated asbestos (RACM) abatement. If it is determined that there are asbestos-containing materials or soils on site, the developer shall utilize specialists/professionals for asbestos removal/abatement to reduce potential health risks to construction workers. Demolition activities that would expose construction workers and/or the public to asbestos-containing materials shall be conducted in accordance with the applicable regulations, including, but not limited to:

- *San Joaquin Valley Air Pollution Control District*
- *California Health and Safety Code (Section 39650 et seq.)*
- *California Code of Regulations (Title 8, Section 1529)*
- *California Occupational Safety and Health Administration regulations (California Code of Regulations, Title 8, Section 1529 [Asbestos] and Section 1532.1 [Lead])*
- *Code of Federal Regulations (Title 40, Part 61 [asbestos], Title 40, Part 763 [asbestos], and Title 29, Part 1926 [asbestos and lead])*

Mitigation Measure HAZ-2: Lead-Based Paint Inspection. *Prior to the demolition of any existing structure on site, a lead-based paint inspection is required to determine whether the lead-based paint is present in or on the original building materials. The inspection shall be conducted on-site by a state-certified Lead Inspector or Assessor in accordance with the California Code of Regulations, Title 8, Section 1532.1. The investigation report shall be submitted to the City of Kerman Community Development Department for review and approval prior to issuance of a demolition permit.*

If it is determined that lead-based paint exists on site, the project proponent shall utilize professionals for lead-based paint removal to reduce potential health risks to construction workers and/or the public. Pursuant Section 1532.1, construction workers must establish and implement a compliance program, and provide a written Pre-Job Notification to the nearest Division of Occupational Safety and Health Cal/OSHA office 24 hours before the start of a project. ***Mitigation Measure HAZ-3: Test for Agricultural Pesticides.*** *Prior to building permit approval for the first construction phase, a limited Phase II investigation shall be conducted to assess the surface soil of the project site for residual organochlorine and lead arsenate pesticides. The Phase II investigation shall be conducted in accordance with guidelines developed by the Department of Toxic Substances Control (DTSC) and Environmental Protection Agency (EPA) for site assessments. The Phase II investigation shall estimate the potential threat to public health and the environment if concentrations of pesticides are encountered using methods outlined in DTSC's Preliminary Endangerment Assessment Guidance Manual and DTSC's Screening Level Human Health Risk Assessment guidance for implementing screening level risk analysis. The Phase II investigation shall be submitted to the City of Kerman Community Development Department for review and approval. If the Phase II testing reveals concentrations of organochlorine pesticides and lead arsenic above health-based screening levels for residential exposure, remediation of the site shall be required to address residual organochlorine and lead arsenate pesticides above health-based level of concern. Remediation may include excavation and disposal of impacted soil or capping elevated areas beneath paved areas. The Construction Contractor shall implement the recommendations outlined in the Phase II.*



e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?

No Impact. The nearest public airport or public use airport is the Fresno-Chandler Executive Airport located approximately 13.2 miles east of the Project Area. The Project Area is not located within any land use plan or within two (2) miles of a public airport or public use airport. As such, the Project would not result in a safety hazard for people residing or working in the Project Area and no impact would occur.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact. The Project would not involve any new or altered infrastructure associated with evacuation, emergency response, and emergency access routes within the City of Kerman or County of Fresno. Construction may require lane closure; however, these activities would be short-term and access through West Nielsen Avenue would be maintained through standard traffic control. Following construction, this roadway would continue to provide access to the site. Furthermore, the Project would be subject to compliance with applicable standards for on-site emergency access including turn radii and fire access. Therefore, through the compliance, the Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan and impacts would be less than significant.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

Less than Significant Impact. Development of the Project would increase paved areas, decreasing the probability of wildfires. In addition, the site is not identified by Cal Fire to be in a Moderate, High, or Very High Fire Hazard Severity Zone (FHSZ). Future development of the site would result in the construction of structures and installation of infrastructure that would be reviewed and conditioned by the city for compliance with all applicable standards, specifications, and codes. In addition, any structure occupied by humans would be required to be constructed in adherence to the Wildland Urban Interface Codes and Standards of the CBC Chapter 7A. Compliance with such regulations would ensure that the Project meets standards to help prevent loss, injury, or death involving wildland fires. For these reasons, the Project would have a less than significant impact.

4.9.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Hazards and Hazardous Material related mitigation measure as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.10 HYDROLOGY AND WATER QUALITY

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			X	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?			X	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:				
i. Result in a substantial erosion or siltation on- or off-site;			X	
ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site:			X	
iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			X	
iv. Impede or redirect flood flows?			X	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to Project inundation?			X	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			X	



4.10.1 Environmental Setting

The Project proposed to be annexed into Kerman's city limits and would be required to connect to the city's water and stormwater services. The city's water and stormwater services are described as follows.

Water

The City's Public Works Department Water Division is responsible for the City's wells, distribution lines, water meters, and back-flow prevention systems. The 2020 Urban Water Management Plan (UWMP), adopted July 2022, analyzes data to ensure adequate urban water supplies for the future, promotes water conservation policies and programs, and provides mechanisms for response during water drought conditions. According to the 2022 UWMP, the city provides potable water services to approximately 16,016 residents, and 3,767 metered connections within its service area as of 2020. The UWMP Projected a service population of 24,354 residents by 2045. The city owns and operates six (6) active wells to extract groundwater from the Kings Subbasin. These wells have individual capacities ranging from 900 gallons per minute (gpm) to 1,500 gpm, with a total of 6,700 gpm.¹⁴

The General Plan proposes a dual water system, including a primary system to provide potable water for domestic uses from deep wells and a secondary system that provides non-potable water for landscaping, industrial, and fire protection from surface water and/or shallow groundwater. The General Plan includes the following goals and policies in its Conservation, Open Space, and Recreation Element and Public Facilities and Services Element to promote water conservation, as listed below.

Goal COS-4 *To effectively manage water resources by adequately planning for the development, conservation, and protection of water resources for present and future generations.*

Policy COS-4.3 Native and Drought-Tolerant Plants. *The City shall require the use of native and drought-tolerant plants for new landscaping in existing and future parks and street medians.*

Policy COS-4.6 Water Use Efficiency for New Development. *The City shall encourage new development and majority retrofits of existing development to incorporate water conservation techniques. Such techniques include requiring low-flow plumbing fixtures in new construction that meet or exceed the California Plumbing Code, use of graywater for landscaping, retention of stormwater runoff for groundwater recharge, use of reclaimed water for outdoor irrigation (where available), and landscape water efficiency standards that meet or exceed the standards in the California Model Water Efficiency Landscape Ordinance.*

Goal PFS-2 *To ensure a quality and reliable water supply to meet the needs of residents, businesses, and the agricultural industry.*

Policy PFS-2.1 Water, Sewer, and Storm Drainage Infrastructure. *The City shall continue to install and upgrade water, sewer, and storm drainage infrastructure to meet current and Projected growth demand, as well as current water quality standards.*

Policy PFS-2.4 Kerman Wastewater Treatment Plant. *The City should preclude the intrusion of any land uses that are incompatible with operation of the Kerman Waste Water Treatment Plant.*

¹⁴ City of Kerman. (2022). Final 2020 Urban Water Management Plan. Accessed August 7, 2024, <https://cityofkerman.net/DocumentCenter/View/437/2020-UWMP-PDF>



***Policy PFS-2.5 Pollutants from Water Run-off.** During the development review process, the City shall require new development to provide facilities and/or measures to reduce pollutants in water run-off prior to entering the city's stormwater collection system. Options could include bioswales and other best management practices currently available at time of development.*

***Policy PFS-2.8 Groundwater Recharge.** The City shall support adequate groundwater recharge by developing storm ponding and retention basins where feasible. In some areas these ponds or basins can be incorporated into a recreational area or used as wildlife habitat area or may be required by new development to offset impacts associated with new nonpermeable surfaces.*

Stormwater

The City's Public Works Department Storm Water Management Division manages Kerman's storm drain system and monitors storm water quality. The City maintains stormwater facilities within existing rights-of-way. The City's stormwater system consists of a system of drains and ponding basins located throughout the City. The stormwater ponding basins consist of 11 percolation basins that provide groundwater recharge. The percolated stormwater is subsequently pumped as groundwater for local crop irrigation. Average annual precipitation in the Kerman area is 11 inches.

4.10.2 Impact Assessment

Would the Project:

- a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?***

Less than Significant Impact. The Project Area is undeveloped and therefore would require grading, excavation, and loading activities associated with construction which could temporarily increase runoff, erosion, and sedimentation. Typical sources of potential construction-related stormwater pollution would be the handling, storage, and disposal of construction materials that contain pollutants, the maintenance and operation of construction equipment, and earth moving activities. The potential for construction-related stormwater pollution would be significantly minimized through preparation of the required SWPPP (**Section 4.7**) in compliance with the General Permit for Discharges of Storm Water Associated with Construction Activity. The SWPPP estimates the sediment risk associated with construction activities and includes best management practices (BMP) to control erosion. BMPs specific to erosion control cover erosion, sediment, tracking, and waste management controls. Implementation of the SWPPP minimizes the potential for the Project to result in substantial soil erosion or loss of topsoil. These provisions minimize the potential for the Project to violate any waste discharge requirements or otherwise substantially degrade surface or ground water quality. Further, runoff resulting from the Project would be managed by the Storm Water Management Division in compliance with the Storm Drainage Master Plan in addition to approved grading and drainage plans. Thus, compliance with existing regulations including the General Construction Permit, BMPs, and Storm Drainage Master Plan would ensure potential impacts related to water quality and waste discharge are less than significant.



b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

Less than Significant Impact. The City's long-term water resource planning for existing and future demand is addressed in the City's 2020 Urban Water Management Plan (UWMP). The City's sole source of water supply is the underlying groundwater basin, Kings Subbasin. The City currently has six (6) wells throughout the community, with an existing well capacity range from 900 to 1,500 gallons per minute (gpm). The total combined capacity is approximately 6,700 gpm, 9.65 million gallons per day (MGD), and 3,522 million gallons per year (MGY).

As population and development within the city increases, the UWMP indicates that additional wells and storage tanks will be added to the water system to meet the growing demand. These increases are accounted for in the UWMP projections, which are based on the 2040 General Plan. In the General Plan, the Project Area is planned for Medium Density Residential and General Commercial uses. The Project proposes a General Plan Amendment that would change the General Commercial to Mixed Use land use designations (Parcel 2 of the Project Area). The development of Parcel 1 would be consistent with the permitted density of the Medium Density Residential land use and would not result in a higher density that would not have been previously accounted for.

Existing and future water demands for residential uses are shown in **Table 4-10**. As shown, the City anticipates 3,520 single-family residential users, 215 multi-family residential users, and 201 commercial connections in 2025. Water demand for both use types is expected to increase to 3,828 for single-family residential users, 234 for multi-family residential users, and 219 for commercial connections by 2030. The residential portion of the Project (Parcel 1) is anticipated to be developed and operational between 2025 and 2030. No development is proposed for the mixed use portion (Parcel 2) at this time. Since Parcel 1 would be developed within the density allowed in the underlying planned land use designation, it can be assumed that the Project would be accommodated by existing groundwater supplies and impacts would be less than significant. However, future development of Parcel 2 would introduce multi-family residential connections in place of some commercial connections due to the proposed change in the underlying land use designation. Whether this would cause a significant impact on groundwater supplies is discussed below.

Table 4-10 City of Kerman Existing and Future Water Demands by Use Type

Use Type	2020	2025	2030
Single Family Residential	3,237 metered connections	3,520 connections	3,828 connections
Multi-Family Residential	198 metered connections	215 connections	234 connections
Commercial	185 metered connections	201 connections	219 connections

The City's 5-year average per capita water use is 164 gallons per day (gpd). With an average household size of 3.44, the proposed mixed-use portion (Parcel 2), estimated at 174 units (assuming Parcel 2 is developed at the maximum permitted density 20 du/ac), could house approximately 598 residents and generate a demand of roughly 98,072 gpd (35.8 million gallons annually). The 2020 UWMP projects a city population growth from 16,016 in 2020 to 24,354 in 2045 (an average annual growth rate of 1.69%). Considering the existing population plus the potential 598 residents from Parcel 2, the total would be 16,614. This leaves capacity for an additional 7,740 residents within the 2045 UWMP projection. Furthermore, pending residential projects (Whispering Falls - 174 units, Crown-Schaad - 163 units, and Del Norte-Estates - 300 units) could add another 2,191 residents. Even with these developments and Parcel 2 fully built out (total population of 18,207), the City would remain within the 2045 UWMP projected population of 24,354, with capacity for an additional 6,140 residents. Therefore, impacts would be less than significant.



Furthermore, adherence to connection requirements and recommendations pursuant to the City's water conservation efforts (e.g., compliance with California Plumbing Code, efficient appliances, efficient landscaping, etc.) should not negatively impact water supply or impede water management. In particular, the Project would be built accordance with all mandatory outdoor water use requirements as outlined in the applicable California Green Building Standards Code, Title 24, Part 11, Section 4.304 – Outdoor Water Use and verified through the building permit process. As a residential development that would contain landscaping pursuant to KMC regulations, the Project shall comply with the updated Model Water Efficient Landscape Ordinance (MWELO) (California Code of Regulations, Title 23, Chapter 2.7, Division 2), as implemented and enforced through the building permit process. Therefore, through compliance, the potential for the Project to substantially decrease groundwater supplies is limited and impacts would be less than significant.

In addition, development of the Project Area would increase impervious surfaces which could increase stormwater runoff and reduce groundwater recharge. According to the UWMP, the City maintains stormwater facilities within existing rights-of-way. The City's stormwater system consists of a system of drains and ponding basins located throughout the city. The stormwater ponding basins consist of 11 percolation basins that provide groundwater recharge. The percolated stormwater is subsequently pumped as groundwater for local crop irrigation.

As previously described, a drainage basin is proposed on-site at the northeastern corner of Parcel 1. The basin was sized to adequately accommodate stormwater runoff from the site. Based on the proposed site grading, stormwater runoff will generally drain toward the basin through storm drains ranging 18-inch to 42-inch. Further, runoff resulting from the Project would be managed by the Storm Water Management Division in compliance with the Storm Drainage Master Plan in addition to approved grading and drainage plans. Thus, compliance would ensure potential impacts related to groundwater recharge are less than significant.

Overall, based on the information collected from the UWMP and the City of Kerman, the proposed Project would not generate significantly greater water demand than would otherwise occur with a higher intensity land use. As a result, it can be presumed that the existing and planned water distribution system and supplies should be adequate to serve the Project, and the Project would thereby not interfere substantially with groundwater recharge or impede sustainable groundwater management of the basin. In addition, adherence to connection requirements and recommendations pursuant to the City's water supply planning efforts (i.e., compliance with California Plumbing Code, efficient appliances, efficient landscaping, etc.) should not negatively impact the City's water provision. Lastly, compliance with approved grading and drainage plans would ensure impacts to groundwater recharge are less than significant. For these reasons, a less than significant impact would occur.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:

1. i. Result in substantial erosion or siltation on- or off-site?

Less than Significant Impact. Erosion is a natural process in which soil is moved from place to place by wind or from flowing water. The effects of erosion within the Project Area can be accelerated by ground-disturbing activities associated with development. Siltation is the settling of sediment to the bed of a stream or lake which increases the turbidity of water. Turbid water can have harmful effects to aquatic life by clogging fish gills, reducing spawning habitat, and suppressing aquatic vegetation growth.



Implementation of the proposed Project would result in the development of ruderal land that has undergone significant disturbance (i.e., annual discing, agricultural operations). Bare soils, common within agricultural land, are more susceptible to erosion than an already developed urban land, thus it is expected erosion could occur on-site. During construction activities, and in compliance with the Project's SWPPP, construction-related erosion controls and BMPs would be implemented to reduce potential impacts related to erosion and siltation. These BMPs would include, but are not limited to, covering and/or binding soil surfaces to prevent soil from being detached and transported by water or wind, and the use of barriers such as straw bales and sandbags to control sediment. Together, the controls and BMPs are intended to limit soil transportation and erosion and construction impacts related to on- and off-site improvements.

Development of the site would also result in an increase in the amount of impervious surface, which could increase the volume of runoff. However, the impervious surface area would significantly reduce the amount of exposed soil which would minimize the potential for erosion and siltation. In addition, the Project would be required to maintain the overall site drainage pattern in accordance with an approved grading and drainage plan. According to the Project's preliminary utility plan, the site will drain northwest into the proposed drainage basin through storm drains ranging 18-inch to 42-inch. The basin was sized to adequately accommodate stormwater runoff from the site. Therefore, compliance with requirements would reduce or eliminate the Project's potential to substantially alter the existing drainage pattern of the site as to cause substantial erosion or siltation and impacts would be less than significant.

ii. Substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

Less than Significant Impact. During construction, the site's vegetation and soil would be disturbed, thereby temporarily altering the natural hydrology of the site. In turn, this could increase the volume and velocity of stormwater runoff which could increase the potential for flooding on- or off-site. As previously discussed, development of the site would require compliance with the SWPPP, approved grading and drainage plan, and implementation of BMPs that would control and direct runoff. Compliance would ensure that construction impacts related to the alteration of the site's natural hydrology and the potential increase in runoff that would result in flooding on- or off-site would be less than significant.

iii. Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less than Significant Impact. Development of the site would disturb the site's vegetation and soil and temporarily alter the natural hydrology of the site. However, compliance with the SWPPP, approved grading and drainage plan, and implementation of BMPs that would control, and direct runoff would reduce construction impacts related to alteration of the site's natural hydrology and the potential increase in runoff or polluted runoff in excess of existing or planned stormwater drainage systems. Therefore, construction would not result in the creation or contribution of additional sources of runoff or polluted runoff in exceedance of the existing or planned stormwater drainage systems and impacts would be less than significant.

Regarding operational impacts, development of the site would result in an increase in the impervious surface area which would increase runoff from the site. However, compliance with the approved grading and drainage plans



would reduce the potential for the Project to cause substantial additional polluted runoff or runoff in excess of existing or planned stormwater drainage systems. A less than significant impact would occur.

2. iv. Impede or redirect flood flows?

Less than Significant Impact. Although the construction of the proposed Project would increase impervious surfaces, the Project would be required to maintain the site's drainage pattern through Project-specific grading and drainage plans that would be reviewed and approved by the City prior to the issuance of building permits. Through compliance, the potential for the Project to impede or redirect flood flows would be minimized or eliminated and a less than significant impact would occur.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to Project inundation?

Less than Significant Impact. The Project site is designated as Zone X on the most recent Flood Insurance Rate Map (FIRM) No. 06019C2075H dated February 18, 2009 (see **Figure 4-3**).¹⁵ Zone X is a flood hazard area with a 0.2 percent annual chance of flood hazard and one (1) percent annual chance flood with average depth less than one foot or with drainage areas of less than one (1) square mile. In addition, the Project site is not in a tsunami or seiche zone (i.e., standing waves on rivers, reservoirs, ponds, and lakes), therefore the risk of inundation is unlikely. For these reasons, the Project would have a less than significant impact.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less than Significant Impact. A groundwater sustainability plan was adopted for the Kings Groundwater Sub-basin on November 21, 2019, by the North Kings Groundwater Sustainability Agency (NKGSA), of which the City of Kerman is a member.¹⁶ The goal of the Kings Basin and NKGSA was to ensure that the subbasin maintains a reliable water supply for current and future beneficial uses without experiencing undesirable results through 2040. The proposed Project is required to comply with the adopted plan (North Kings Groundwater) to meet the 2040 sustainability deadline for the basin. During the preparation of the City's 2020 UWMP, the city coordinated with the North Kings Groundwater Sustainability Agency, Fresno Irrigation District, County of Fresno, and Kings Basin Water Authority to ensure that the city's UWMP is in compliance with the goals of these agencies. As such, compliance with the City's 2020 UWMP would ensure that the Project does not conflict or obstruct the implementation of the NKGSA plan. As mentioned above, impacts to groundwater supplies from the proposed Project will not be beyond those analyzed in the General Plan, PEIR, or UWMP. The City does not have a single water quality control plan, but it does manage water quality through regular monitoring, annual reporting, municipal codes regulating water wells and conservation, and oversight from the Regional Water Quality Control Board. The Project would be required to comply with all applicable regulations. For these reasons, a less than significant impact would occur because of the Project.

4.10.3 Mitigation Measures

None required.

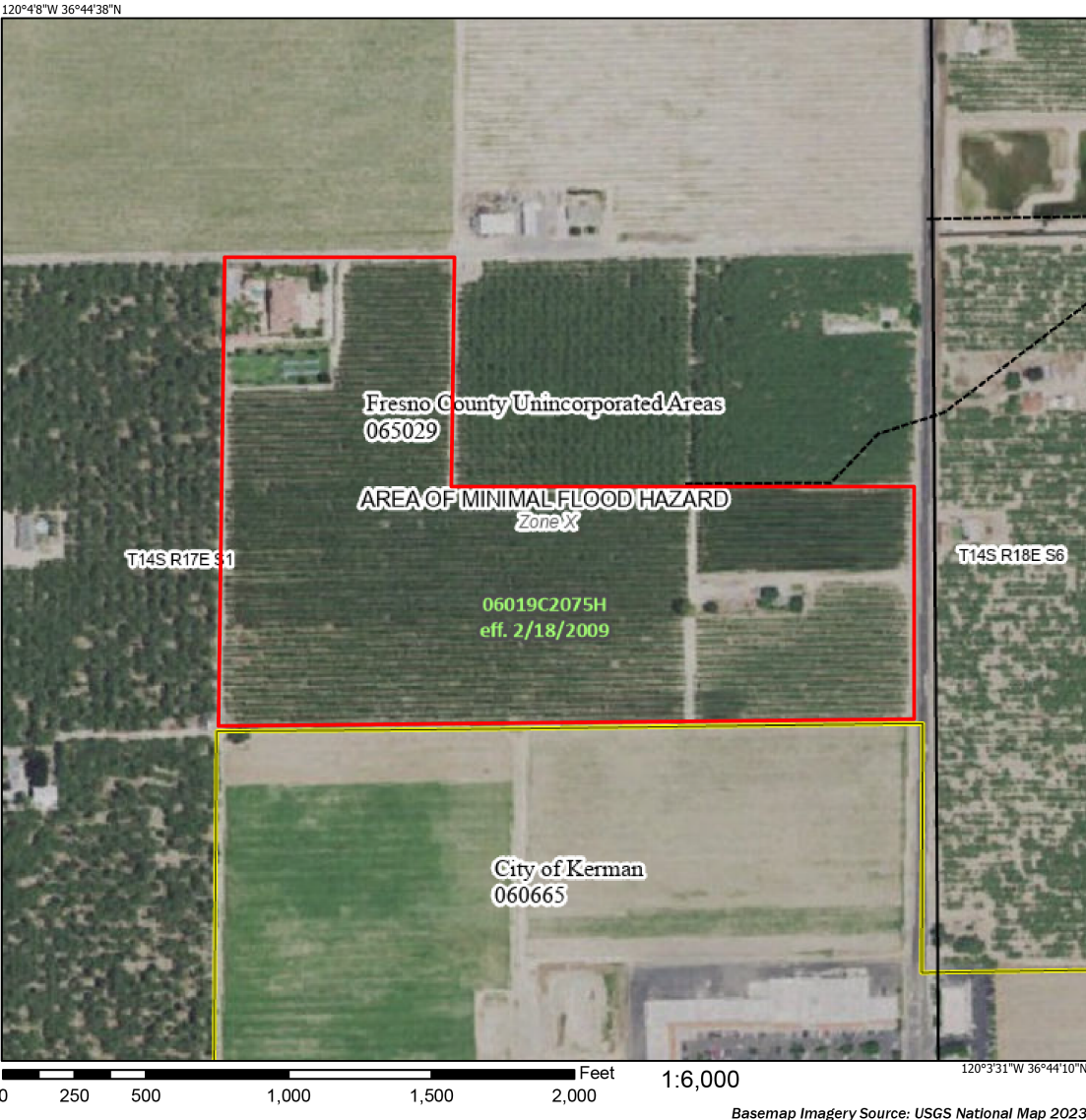
¹⁵ FEMA. FEMA Flood Map Service Center. Accessed August 7, 2024, <https://msc.fema.gov/portal/home>

¹⁶ North Kings Groundwater Sustainability Agency (2020). Groundwater Sustainability Plan. Accessed August 7, 2024, <https://northkingsgsa.org/groundwater-sustainability-plan/>





National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
MAP PANELS		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped
MAP PANELS		Project Area

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/7/2024 at 12:43 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Figure 4-3 Flood Zone Map



4.11 LAND USE PLANNING

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Physically divide an established community?			X	
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			X	

4.11.1 Environmental Setting

The Project Area is within Kerman’s Sphere of Influence (SOI). The Project proposes the annexation of the Project Area into the city limits of Kerman.

The Project Area has a City of Kerman 2040 General Plan land use designation of MDR – Medium Density Residential and GC – General Commercial (**Figure 2-3**). The Project proposes GPA 2023-02 to amend the Kerman 2040 General Plan land use designation for a portion of APN 020-120-06 (8.74 acres) from the GC – General Commercial land use designation to the MU – Mixed Use land use designation.

According to the General Plan, the MDR land use designation *“allows for residential development at a density of up to 12 units per gross acre. Development in this category could include a mix of single-family and multifamily residences, including duplexes, triplexes, fourplexes, and mobile homes.”* The MDR land use designation is compatible with the R-1-7, R-1-12, R-2, SD-R-5, SD-R-4.5, SD-R-3.5, PD-R-7, and PD-R-12 zoning districts. Typical uses of this land use designation include single-family detached dwellings, small-lot multifamily dwellings including duplexes, triplexes, fourplexes, and mobile homes, accessory dwelling units, and compatible public and quasi-public uses (e.g., churches, day-care centers, community centers, parks, and schools).

According to the General Plan, the MU land use designation *“allows for a combination of residential, office, and commercial uses. This designation shall generally be reserved for sites that are centrally located and where mixed-use development would not conflict with neighboring existing land uses.”* The MU land use designation is compatible with the MU zoning district. Typical uses of this land use designation include multifamily dwellings, retail stores and restaurants, personal service/repair, medical, and office uses, and central gathering places. The maximum density permitted in the MU land use designation is 20 dwelling units per acre. The maximum intensity permitted is 1.0 floor area ratio (FAR).

The Project Area is outside City limits and located within the County of Fresno Agricultural Exclusive – 20 Acres (AE-20) and Limited Agricultural – 20 Acres (AL-20) zoning districts (**Figure 2-4**). Because the Project Area is outside City limits, proposed development would require annexation and a pre-zone/rezone of the site to a zoning district consistent with the City of Kerman 2040 General Plan planned land use designation for the site. Consistent zoning districts for the MDR land use designation are R-1-7, R-1-12, R-2, SD-R-5, SD-R-4.5, SD-R-3.5, PD-R-7, and PD-R-12. Consistent zoning districts for the MU land use designation is MU.



REZ 2023-03 would pre-zone a portion of the Project Area (30.39 acres) to the Smart Development Combining District – Residential – minimum 3,500 square feet (SD-R-3.5) zoning district and the Mixed Use land use designation portion of the Project Area (8.74 acres) to the Mixed Use zoning district. The proposed zoning districts would be consistent with the underlying and proposed planned land uses, pending approval of GPA 2023-02.

4.11.2 Impact Assessment

Would the Project:

a) Physically divide an established community?

Less than Significant Impact. Typically, physical division of an established community would occur if a Project introduced new incompatible uses inconsistent with the planned or existing land uses or created a physical barrier that impeded access within the community. Typical examples of physical barriers include the introduction of new, intersecting roadways, roadway closures, and construction of new major utility infrastructure (e.g., transmission lines, storm channels, etc.).

Surrounding Land Uses

The Project Area is surrounded by an elementary school site to the south and agricultural uses to the north, east, and west. As referenced in **Table 2-1**, properties to the north, east, and west are zoned for agricultural uses within the County of Fresno, and the properties east and west are planned for residential and commercial uses in Kerman. Proposed site improvements would be regulated by development standards and zoning regulations, including height, landscaping, setbacks, improvements, right-of-way dedications, open space, and parking, etc. As such, the Project would be consistent and therefore compatible with the existing residential use surrounding the Project Area. Therefore, implementation of the Project would be generally consistent with the existing and planned land uses within the Project Area.

Circulation System

Access to the Project Site (Parcel 1) would be provided by one (1) point of ingress/egress from West Nielsen Avenue and one (1) point of ingress/egress to the south, which connects to a roadway that is being built along the southern boundary of the site. This new roadway along the southern boundary will provide access to Madera Avenue. The Project also provides five (5) stub streets connections to future development of the surrounding area, including two (2) points of ingress/egress to the west (i.e., APNs 020-120-17S and 020-120-28S), two (2) points of ingress/egress to the east (i.e., TPM 2024-01 Parcel 2), and one (1) point of ingress/egress to the north (i.e., APN 020-120-11).

All proposed roadways are local street that are not identified the Kerman General Plan Circulation Diagram. All roadways within the proposed subdivision, including the West Nielsen Avenue and south entrances, would be designed in accordance with City Standards and would have curb, gutter, and sidewalk. With connections to West Nielsen Avenue and North Madera Avenue, the Project would be able to be served by the existing circulation system and related infrastructure. Therefore, implementation of the Project would not include the introduction of new, intersecting roadways. Therefore, a less than significant impact would occur.

Utility Infrastructure

The Project Area is proposed to be annexed into the city limits and thus, would be required to connect to water, wastewater, and stormwater services. Natural gas, electricity, telecommunications, and solid waste services are



provided by private companies. Utility systems are described and analyzed in [Section 4.10](#) and [Section 4.15](#). Based on the analysis, implementation of the Project would not result in the construction of new, major utility infrastructure.

As such, the Project does not represent a significant change in the surrounding area as it would develop a vacant and undeveloped site with residential uses that are consistent and compatible with existing uses surrounding the Project Area. In addition, the Project provides connections to existing roadways designated in the General Plan and does not include major utility infrastructure. For these reasons, the Project would not result in the physical division of an established community and would thereby have a less than significant impact.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less than Significant Impact. The Project proposes to construct a 172-unit residential development with the approval of the associated annexation, general plan amendment, pre-zone/rezone, tentative parcel map, and tentative subdivision map. The Project Area would be annexed to the City of Kerman to the Medium Density Residential and General Commercial land use designations. GPA 2023-02 would amend the Kerman 2040 General Plan land use designation for a portion of APN 020-120-06 (8.74 acres) from the General Commercial land use designation to the Mixed Use land use designation. The annexation boundary was determined by Fresno LAFCO. Approval of the REZ 2023-03 would ensure that the proposed zoning designation is consistent with the underlying and proposed land use designation.

Generally, policy conflicts are environmental impacts when they would result in direct physical impacts or where those conflicts relate to avoiding or mitigating environmental impacts. As such, associated physical environmental impacts are discussed in this document under specific topical sections, such as Biological Resources, Cultural Resources, and Tribal Cultural Resources. The Project includes a General Plan Amendment and Pre-zone/Rezone to provide more flexibility for development. A discussion of land use policies that are applicable to the Project are included in [Table 4-11](#). As discussed below, the Project is generally consistent with the proposed General Plan residential and mixed use land use designation. In addition, the Project is within Area 1 of the City's proposed SOI, which is the priority development area for the City.

Table 4-11 Discussion on Land Use Policies in the General Plan for Residential Development

General Plan Policy	Project Consistency
Residential	
<i>Policy LU-1.4 Limit Residential Development Along Highways.</i> <i>The City shall limit residential development from fronting State Highway 145 and State Highway 180 to ensure public safety. Residential development along these facilities shall be designed and buffered to reduce noise and air pollutant impacts to the maximum extent reasonably feasible and consistent with CEQA review.</i>	Consistent. The residential portion of the Project Area is approximately 575 feet from State Highway 145. The proposed Mixed Use land use designation acts as a buffer between the Highway and proposed residential development.
<i>LU-1.6 Agricultural Buffers.</i> <i>The City shall require non-agricultural land uses adjacent to active agricultural uses to incorporate adequate buffers (e.g., setbacks, fences) to protect public health and</i>	Consistent. The Project site is surrounded by agricultural land to the north, east, and west, and a school site to the south. The Project would be buffered from adjacent



limit conflicts with adjoining agricultural operations and pesticide applications.	agricultural uses by existing roadways, adequate setbacks in conformance with the KMC, and fencing.
CIRC-1.12 Residential Driveways. During the development review process, the City shall strive to restrict residential driveways from entering onto collector and arterial streets.	Consistent. Proposed residential units would be internal to the Project Site. Access to the site would be provided by one (1) point of ingress/egress from West Nielsen Avenue (collector) and one (1) point of ingress/egress to the south, which connects to a roadway that is being built along the southern boundary of the site. This new roadway along the southern boundary will provide access to Madera Avenue (highway). Internal circulation would be provided throughout the site. Driveways and garages would be accessed from local streets. No driveways would enter onto West Nielsen Avenue or Madera Avenue.
HE-3.1 Preserving Neighborhood Character. The City shall preserve the character, scale, and quality of established residential neighborhoods by protecting them from the encroachment of incompatible or potentially disruptive land uses and/or activities.	Consistent. The Project Site is planned for medium density residential development in the General Plan and would be developed with single-family residential uses as permitted. Through the entitlement process, the Project would be conditioned to comply with applicable residential development and design standards within the KMC.
HE-6.1 Energy Conservation in New Housing. The City shall encourage the use of energy conserving techniques in the siting and design of new housing.	Consistent. The Project would be reviewed and conditioned to comply with Title 24 and other energy regulations during the entitlement process.
HE-6.2 State Energy Conservation Requirements. The City shall actively implement and enforce all State energy conservation requirements for new residential construction.	
Mixed Use	
LU-1.3 Mixed Use Development The City shall provide for the establishment of offices in existing residential structures, adjacent to Madera Avenue in the original historic townsite.	Not Applicable. The Project is not within the original historic townsite.

Further, through the entitlement process, the Project would be reviewed for compliance with applicable regulations inclusive of those adopted for the purpose of avoiding or mitigating environmental effects. Overall, the entitlement process would ensure that the Project complies with the General Plan, KMC, and any other applicable policies and regulations. As such, a less than significant impact would occur.

4.11.3 Mitigation Measures

None required.



4.12 MINERAL RESOURCES

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				X

4.12.1 Environmental Setting

For the purposes of CEQA, mineral resources are land areas or deposits deemed significant by the California Department of Conservation (DOC). Mineral resources include oil, natural gas, and metallic and nonmetallic deposits, including aggregate resources. The California Geological Survey (CGS) classifies and designates areas within California that contain or potentially contain significant mineral resources. Lands are classified into Aggregate and Mineral Resource Zones (MRZs), which identify known or inferred significant mineral resources. According to the General Plan, the Kerman Planning Area, inclusive of the Project Area, is not located in an area with mineral deposit significance and there are no active mine operations. In addition, the City of Kerman, inclusive of the Project Area, is not within a CalGEM-recognized oilfield and there are no oil and gas wells on-site.¹⁷

4.12.2 Impact Assessment

Would the Project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. There are no identified mineral deposits of significance or active mine operations on the Project Area. Therefore, the Project would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. Therefore, no impact would occur.

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. There are no identified mineral deposits of significance or active mine operations on the Project Area. As a result, the Project would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. Further, the site is not delineated in the General Plan, a Specific Plan,

¹⁷ California Department of Conservation. Well Finder. Accessed on August 7, 2024, <https://maps.conservation.ca.gov/doggr/wellfinder/>



or other land use plan as a locally important mineral resource recovery site, thus it would not result in the loss of availability of a locally important mineral resource. Therefore, no impact would occur.

4.12.3 Mitigation Measures

None required.



4.13 NOISE

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?		X		
b) Generation of excessive groundborne vibration or groundborne noise levels?			X	
c) For a Project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?				X

4.13.1 Environmental Setting

An Acoustical Analysis of the Project was conducted by WJV Acoustics, Inc. (WJVA). The analysis was conducted specifically for the development proposed on Parcel 1. Future development of Parcel 2 may require additional assessment when development is proposed. The full report, dated February 18, 2025, is provided in [Appendix E](#). A summary of the Acoustical Analysis is provided below.

Noise Exposure Criteria

The City of Kerman 2040 General Plan sets noise compatibility standards for transportation noise sources in terms of the Day-Night Average Level (Ldn). Implementing **Policy PH-8.2** of the Public Health and Safety Element establishes a land use compatibility criterion as 60 dB Ldn for exterior noise exposure within outdoor activity areas of residential land uses. Outdoor activity areas generally include backyards of single-family residences, individual patios or decks of multi-family developments and common outdoor recreation areas of multi-family developments. The intent of the exterior noise level requirement is to provide an acceptable noise environment for outdoor activities and recreation.

Additionally, Implementing **Policy PH-8.2** of the Public Health and Safety Element requires that interior noise levels attributable to exterior transportation noise sources not exceed 45 dB Ldn. The intent of the interior noise level standard is to provide an acceptable noise environment for indoor communication and sleep.



The General Plan also provides exterior noise level standards for non-transportation (stationary) noise sources. The standards become more restrictive during the nighttime hours (10:00 p.m. to 7:00 a.m.). The stationary noise level standards are established in terms of the hourly average equivalent noise level (Leq) and the maximum hourly noise level (Lmax). **Table 4-12** provides the applicable exterior noise level standards for stationary noise sources.

Table 4-12 Non-Transportation Noise Level Standards, dBA, Kerman

Daytime (7 am – 10 pm)		Nighttime (10 pm – 7 am)	
Leq	Lmax	Leq	Lmax
50	70	45	65

Source: City of Kerman General Plan, Public Health and Safety Element

Existing Background Noise Levels

The Project site is located south of W. Nielsen Avenue and east of N. Madera Avenue (SR 145). The Project site would be exposed to traffic noise associated with vehicles on these two roadways. Additional sources of noise in the project vicinity include agricultural activities and occasional aircraft overflights.

Measurements of existing ambient noise levels in the Project vicinity were conducted by WJVA. Long-term (i.e., 24-hour) ambient noise level measurements were conducted at two (2) locations: Sites LT-1 and LT-2. Site LT-1 was predominantly exposed to noise sources associated with nearby agricultural activities as well as vehicle traffic along W. Nielsen Avenue. Site LT-2 was predominantly exposed to noise associated with nearby agricultural activities as well as vehicle traffic along N. Madera Avenue. Both ambient noise measurement sites were also exposed to periodic aircraft overflights. The locations of monitoring sites are provided in **Appendix E**.

Additionally, short-term (i.e., 15-minute) ambient noise level measurements were conducted at four (4) locations, Sites ST-1 through ST-4, to quantify ambient noise levels in the morning and afternoon hours. **Table 4-13** summarizes short-term noise measurements. The data includes energy average (Leq) maximum (Lmax) as well as five (5) individual statistical parameters. Overall, sources of noise include traffic (all sites), aircraft (ST-1, ST-3, ST-4), agricultural activities (all sites), birds (ST-2), and dogs barking (ST-2). The locations of monitoring sites are provided in **Appendix E**.

Table 4-13 Summary of Short-Term Noise Measurement Data, The Orchard at Gill Estates Project Site

Site	Time	Leq	Lmax	L2	L8	L25	L50	L90	Sources
ST-1	7:50 am	69.4	83.7	76.4	73.1	68.6	64.3	53.7	TR, AG
ST-1	4:00 pm	70.8	84.5	77.0	74.2	69.0	63.2	54.1	TR, AC
ST-2	8:10 am	54.9	71.2	62.0	54.0	46.2	45.8	42.6	TR, AG, B, D
ST-2	4:25 pm	51.0	70.9	59.2	51.4	45.9	44.8	43.0	TR, AG, D
ST-3	8:35 pm	53.6	71.2	58.7	52.8	49.1	45.4	43.6	TR, AG, AC
ST-3	4:50 pm	52.8	74.4	57.0	53.3	47.0	45.5	42.9	TR, AG
ST-4	8:55 am	56.1	74.0	56.6	53.0	50.8	48.6	45.2	TR, AG, AC
ST-4	5:10 pm	54.7	68.6	52.1	50.8	48.4	46.0	43.3	TR
TR = Traffic, AC = Aircraft, AG = Agricultural Activities, C = Construction Activities, B = Birds, D = Barking Dogs, L = Landscaping Activities									

Source: Acoustical Analysis conducted by WJVA



4.13.2 Impact Assessment

- a) *Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?*

Less than Significant Impact with Mitigation Incorporated. The Project site is located south of W. Nielsen Avenue and east of N. Madera Avenue (SR 145). The Project site would be exposed to traffic noise associated with vehicles on these two roadways. Additional sources of noise in the Project vicinity include agricultural activities and occasional aircraft overflights.

Traffic Noise Exposure

WJVA utilized the FHWA Traffic Noise Model to quantify expected Project-related increases in traffic noise exposure along roadways in the Project vicinity. Traffic noise exposure levels for existing, existing plus project, 2046 cumulative, and 2046 cumulative plus project traffic conditions were calculated based on the FHWA model and traffic volumes provided by the Project traffic engineer, JLB Traffic Engineering, Inc.

Project-related significant impacts would occur if an increase in traffic noise associated with the Project would result in noise levels exceeding the City's applicable noise level standards at the location(s) of sensitive receptors. For the purpose of this analysis, a significant impact is also assumed to occur if traffic noise levels were to increase by 3 dB at sensitive receptor locations where noise levels already exceed the City's applicable noise level standards (without the Project), as 3 dB generally represents the threshold of perception in change for the human ear. This analysis of Project traffic noise focuses on residential land uses, as they represent the most restrictive noise level criteria by land use type provided in the General Plan.

The City's exterior noise level standard for residential land uses is 60 dB Ldn. Traffic noise was modeled at ten (10) receptor locations. The ten (10) modeled receptors are located at roadway setback distances representative of the sensitive receptors (residences) along each analyzed roadway segment. Project-related traffic for existing conditions, existing plus project, 2046 cumulative, and 2046 cumulative plus project traffic conditions would not result in noise levels at any sensitive receptors to exceed the City's noise level standard, nor result in an increase of 3 dB in any sensitive receptor locations where noise levels already exceed the City's noise level standard.

However, a noise impact could occur if the outdoor activity areas of proposed residential land uses are located within the 60 dB Ldn traffic noise contours. The precise locations of residential units were not known at the time this analysis was prepared. If the outdoor activity areas (backyards of single-family residential land uses and outdoor common use areas and individual patios and balconies of multi-family residential land uses) are proposed within the setback distances identified by the acoustical analysis, then impacts related to traffic noise exposure could be potentially significant.

Based on the assumptions in the acoustical analysis and assumed locations of the closest possible residential land uses to these roadways, the acoustical analysis determined that a sound wall, constructed to a minimum height of six (6) feet above project site grade, would reduce traffic noise exposure by approximately five (5) to six (6) dB. If sensitive receptors are proposed within the setback distances described below, the construction of the six (6) foot sound wall would provide sufficient attenuation of noise to comply with the City of Kerman exterior noise level



standards. Therefore, to reduce impacts, the Project shall incorporate **Mitigation Measure NOI-1**. With incorporation, impacts would be less than significant.

Mitigation Measure NOI-1: *To ensure that exterior noise levels at future residential and other noise-sensitive land uses within the project site do not exceed an Ldn of 60 dB due to transportation noise from adjacent roadways (N. Madera Avenue, W. Nielsen Avenue, and Harvest Elementary Road), the following noise attenuation measures shall be incorporated into the project design and implemented during construction. These measures shall be clearly depicted on th' project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits.*

The project shall implement one or a combination of the following noise mitigation strategies to achieve the 60 dB Ldn noise contour within the project boundaries, consistent with the following existing noise contours:

- **N. Madera Avenue:** *The 60 dB Ldn contour extends approximately 121 feet from the roadway centerline.*
 - **W. Nielsen Avenue:** *The 60 dB Ldn contour extends approximately 5 feet from the roadway centerline.*
 - **Harvest Elementary Road:** *The 60 dB Ldn contour extends approximately 42 feet from the roadway centerline.*
1. **Building Setbacks:** *All proposed residential structures and other noise-sensitive uses shall be setback from the centerlines of the adjacent roadways by a distance sufficient to ensure that exterior noise levels do not exceed 60 dB Ldn. This shall be demonstrated through th' project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits. The minimum setbacks shall be no less than:*
 - **N. Madera Avenue:** *121 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB Ldn at a lesser setback.*
 - **W. Nielsen Avenue:** *5 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB Ldn at a lesser setback.*
 - **Harvest Elementary Road:** *42 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB Ldn at a lesser setback.*
 2. **Sound Walls:** *Where sufficient building setbacks alone are not feasible to achieve the 60 dB Ldn at outdoor activity areas or building facades of noise-sensitive uses, a continuous, solid sound wall with a minimum height of six (6) feet above the finished project site grade shall be constructed along the project boundary adjacent to the applicable roadway(s). This shall be demonstrated through th' project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits. Prior to issuance of occupancy for any noise-sensitive land uses located within the identified noise contours, the project proponent shall submit verification that confirms the as-built height and location of any constructed sound walls.*

Interior Noise Exposure

The City of Kerman interior noise level standard is 45 dB Ldn. The exact locations of residential land uses were not known at the time this analysis was prepared. As such, a specific analysis of interior noise levels was not performed. However, it may be assumed that residential construction methods complying with current building code requirements will reduce exterior noise levels by approximately 25 dB if windows and doors are closed. This means



that as long as exterior noise levels do not exceed 70 dB (70-45=25), interior noise levels would not be expected to exceed 45 dB Ldn.

Based upon calculations performed by WJVA, residential land uses would have to be located within 25 feet of the N. Madera Avenue centerline for exterior noise levels to exceed 70 dB Ldn. Based upon typical roadway setback distances for residential land uses, it is not anticipated that interior noise levels would exceed 45 dB Ldn at any residential land uses located within the Project area.

Mixed-Use Noise Levels

The Project would include an approximately 8.74-acre parcel of a mixed-use land use to be located within the eastern portion of the overall Project site. The exact uses and tenants were not known at the time this analysis was prepared. Without more specific information regarding specific commercial uses, it is not possible to precisely determine noise levels and potential impacts on both existing and proposed sensitive receptors near the mixed-use/commercial land uses. Typical examples of stationary noise sources associated with such mixed-use/commercial/retail land uses include:

- HVAC/Mechanical equipment
- Truck deliveries
- Parking lot activities (closing of car doors and trunks, stereos, alarms, etc.)
- Loading docks
- Compactors

Noise levels from new stationary noise sources cannot be predicted with any certainty at this time since specific uses have not yet been proposed and the locations of stationary noise sources relative to the locations of noise sensitive uses are not known. However, under some circumstances there is a potential for such uses to exceed the City's noise standards for stationary noise sources at the locations of sensitive receptors. As such, the Project shall incorporate **Mitigation Measure NOI-2** to reduce impacts of future stationary noise sources on sensitive receptors. With mitigation incorporated, impacts would be less than significant.

Mitigation Measure NOI-2: *To mitigate potential noise impacts from future stationary noise sources on existing or proposed noise-sensitive receptors within or adjacent to the Project site, the following measures shall be implemented:*

1. ***Trigger for Acoustical Analysis:*** *Prior to the issuance of a building permit for any proposed commercial use that is reasonably anticipated to generate significant stationary noise (including, but not limited to, HVAC systems, loading docks, outdoor processing equipment, amplified sound, or other potentially loud operations) and is located within the following distances of an existing or proposed noise-sensitive receptor (e.g., residential dwellings, schools, hospitals, parks, libraries), the project applicant shall be required to prepare an acoustical analysis prepared by a qualified acoustical consultant.*
 - a. ***HVAC Mechanical Equipment:*** *when equipment is within 50 feet of an existing or proposed noise-sensitive receptor.*
 - b. ***Truck Movements:*** *when truck access routes are located within 100 feet of an existing or proposed noise-sensitive receptor.*
 - c. ***Parking Lot Activities:*** *when a parking lot is located within 50 feet of an existing or proposed noise-sensitive receptor.*



- d. **Loading Dock Activities:** when loading docks are located within 100 feet of an existing or proposed noise-sensitive receptor.
 - e. **Compactor:** when a compactor is located within 10 feet of an existing or proposed noise-sensitive receptor.
2. **Requirements for Acoustical Analysis:** The acoustical analysis shall, at a minimum, identify all potential significant stationary noise sources associated with the proposed use, including operational characteristics, predict noise levels at the property line of the noise source and nearest existing or proposed noise-sensitive receptors, and evaluate the predicted noise levels against the City of Kerman's applicable stationary noise standards in the General Plan and Municipal Code. If noise levels are predicted to exceed the City's standards at sensitive receptors, the analysis shall recommend specific, feasible, and effective mitigation measures to achieve compliance with the City's standards. The acoustical analysis shall be submitted by the project proponent to the City of Kerman Community Development Department during the entitlement process. All noise mitigation measures recommended in the acoustical analysis shall be clearly incorporated into the project's site plans prior to issuance of building permits.
3. **Implementation of Mitigation Measures:** Mitigation measures may include but are not limited to: relocation or redesign of noise-generating equipment, installation of sound barriers or enclosures, use of quieter equipment or operational practices, limitations on hours of operation for specific noise-generating activities, or architectural soundproofing. The analysis shall clearly demonstrate the expected noise reduction and confirm that the City's noise standards will be met at all sensitive receptor locations. Prior to issuance of occupancy, the project proponent shall submit verification to the City of Kerman Community Development Department confirming that all required noise mitigation measures have been implemented in accordance with approved plans.

Construction Noise and Vibration Exposure

Construction noise would occur at various locations within and near the Project site throughout the buildout period. Existing sensitive receptors could be located as close as 100 feet from construction activities. **Table 4-14** provides typical construction-related noise levels at distances of 50, 100 feet, 200 feet, and 300 feet.

Construction noise is not considered to be a significant impact if construction is limited to the allowed hours and construction equipment is adequately maintained and muffled. The City of Kerman limits the hours of construction activities to between 7:00 am and 10:00 pm. A noise impact could occur if construction activities were to occur outside these hours, or if equipment was not adequately maintained and muffled. Therefore, the Project shall incorporate **Mitigation Measure NOI-3** to reduce impacts to less than significant levels. With mitigation incorporated, impacts would be less than significant.

Mitigation Measure NOI-3: The following mitigation measures and best management practices shall be applied during periods of project construction. Prior to issuance of building permits for all project phases, the project proponent shall include these measures and best management practices on the construction plans submitted to the City of Kerman Building Division. The Building Division shall verify that these measures and best management practices are included in the construction plans prior to approval of building permits.

- **Adherence to City Ordinance:** Construction activities are strictly prohibited outside the hours of 7:00 am and 10:00 pm, as mandated by the City of Kerman Municipal Code. Any work outside these hours requires prior



written approval from the City of Kerman's Planning and/or Building Division, demonstrating necessity and implementation of enhanced noise mitigation measures.

- **Equipment Maintenance and Muffling:** All construction equipment shall be maintained in proper working order with effective muffling devices that meet or exceed manufacturer specifications for noise reduction. Documentation of equipment maintenance, including muffler checks, shall be kept on-site and made available for inspection. During inspections by the City of Kerman's Building Division, non-compliant equipment shall be tagged and prohibited from use until proper maintenance or muffling is implemented and verified by the City.
- **Idling Reduction:** Noise-producing equipment shall not be left operating, running, or idling when not actively in use by construction personnel. Operators shall be instructed and regularly reminded to turn off equipment during periods of inactivity. This requirement shall be included in contractor agreements.
- **Distance from Sensitive Receptors:** Noise-producing construction equipment shall be strategically located and operated as far as feasible from noise-sensitive land uses (e.g., residences, schools, hospitals, parks). Site plans submitted with the construction documents shall identify noise-sensitive areas and demonstrate how equipment placement maximizes distance. The City's review of the construction site plan will assess the proposed equipment locations relative to sensitive receptors. Any significant deviations during construction will require justification and potential relocation of equipment as directed by the City.
- **Staging Area Location:** Construction staging areas, where equipment and materials are stored and where less intensive activities may occur, shall be located at the maximum possible distance from noise-sensitive land uses. The location of staging areas shall be clearly indicated on the construction site plan. The approved site plan will dictate the permissible locations for staging areas. Any unauthorized staging in closer proximity to sensitive receptors will require immediate relocation.
- **Construction Hours Signage:** Clearly visible signs, in both English and Spanish, shall be posted at all construction site entrances and near adjacent sensitive receptors. These signs shall prominently display the permitted hours of construction activities and provide the name and contact phone number of a designated noise disturbance coordinator responsible for addressing noise complaints. The presence and legibility of these signs will be verified during initial site inspections and monitored throughout the construction period. Missing or inadequate signage will require immediate replacement. The contact information for the noise coordinator shall be provided to the City prior to the commencement of construction.

Table 4-14 Typical Construction Equipment Maximum Noise Levels, dBA

Type of Equipment	50 ft.	100 ft.	200 ft.	300 ft.
Concrete Saw	90	84	78	74
Crane	81	75	69	65
Excavator	81	75	69	65
Front End Loader	79	73	67	63
Jackhammer	89	83	77	73
Paver	77	71	65	61
Pneumatic Tools	85	79	73	69
Dozer	82	76	70	66
Rollers	80	74	68	64
Trucks	86	80	72	70
Pumps	80	74	68	64
Scrapers	87	81	75	71
Portable Generators	80	74	68	64
Backhoe	86	80	74	70
Grader	86	80	74	70



Source: FHWA, Noise Control for Buildings and Manufacturing Plants, Bolt, Beranek & Newman, 1987

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant Impact. Groundborne vibration refers to the oscillatory motion of the ground caused by dynamic forces. Groundborne noise originates from vibrations that travel through the ground and into buildings where they cause surfaces to vibrate and radiate sound waves. The dominant sources of man-made vibration are sonic booms, blasting, pile driving, pavement breaking, demolition, diesel locomotives, and rail-car coupling. None of these activities are anticipated to occur with construction or operation of the proposed Project. Vibration from construction activities could be detected at the closest sensitive land uses, especially during movements by heavy equipment or loaded trucks and during some paving activities. Typical vibration levels at distances of 25, 100 feet and 300 feet are summarized by **Table 4-15**. These levels would not be expected to exceed any significant threshold levels for annoyance or damage, as provided above and impacts would be less than significant.

Table 4-15 Typical Vibration Levels During Construction

Equipment	PPV (in/sec)		
	At 25 ft.	At 100 ft.	At 300 ft.
Bulldozer (Large)	0.089	0.019	0.006
Bulldozer (Small)	0.003	0.0006	0.0002
Loaded Truck	0.076	0.017	0.005
Jackhammer	0.035	0.008	0.002
Vibratory Roller	0.210	0.046	0.013
Caisson Drilling	0.089	0.019	0.006

Source: Caltrans

After full Project build out, it is not expected that ongoing operational activities will result in any vibration impacts, including groundborne vibration or groundborne noise at nearby sensitive uses. Activities involved in trash bin collection could result in minor on-site vibrations as the bin is placed back onto the ground. Such vibrations would not be expected to be felt at off-site sensitive uses. Impacts would be less than significant.

c) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?

No Impact. The nearest public airport or public use airport is the Fresno-Chandler Executive Airport located approximately 13.2 miles east of the Project site. The Project site is not located within any land use plan or within two (2) miles of a public airport or public use airport. As such, the Project would not result in exposing people residing or working in the Project area to excessive noise levels. Therefore, there would be no impact.

4.13.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Noise related mitigation measures as identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.14 POPULATION AND HOUSING

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			X	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X

4.14.1 Environmental Setting

CEQA Guidelines *Section 15126.2(d)* requires that a CEQA document discuss the ways in which the proposed Project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. The CEQA Guidelines provide an example of a major expansion of a wastewater treatment plant that may allow for more construction within the service area. The CEQA Guidelines also note that the evaluation of growth inducement should consider the characteristics of a Project that may encourage or facilitate other activities that could significantly affect the environment. Direct and Indirect Growth Inducement consists of activities that directly facilitate population growth, such as construction of new dwelling units. A key consideration in evaluating growth inducement is whether the activity in question constitutes “planned growth.”

4.14.2 Impact Assessment

Would the Project:

- a) *Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?*

Less than Significant Impact. The Project includes a General Plan Amendment and Prezone/Rezone (REZ). GPA No. 2023-02 requests amending the Kerman 2040 General Plan land use designation for a portion of APN 020-120-06 (8.74 acres) from the General Commercial land use designation to the Mixed Use land use designation. REZ No. 2023-03 requests to pre-zone a portion of the Project Area (30.39 acres) to the Smart Development Combining District – Residential – minimum 3,500 square feet (SD-R-3.5) zoning district and the Mixed Use land use designation portion of the Project Area (8.74 acres) to the Mixed Use zoning district, consistent with the underlying and proposed land use designations. The proposed residential development for Parcel 1 would be consistent with the maximum density allowed within the planned land use designation, and therefore, housing units generated by the proposed Project would be within the Kerman General Plan projections for the City.



However, development of Parcel 2, the mixed use portion, would introduce additional population growth that was not previously planned. The additional residential development could result in a maximum of 174 units, which could generate approximately 591 residents.¹⁸ This addition would be increasing Kerman's population from 17,256 to 17,847, which would account for an approximately three (3) percent increase in population within the City.¹⁹ These additional units resulting from Project implementation are intended to accommodate the citywide population. The potential population growth is within the population growth contemplated by the Kerman General Plan, which anticipates a population increase of up to 4,170 people by 2040. Therefore, the additional growth anticipated under Project buildout would be consistent with the General Plan population projection, citywide planning objectives, and RHNA housing allocation. As a result, impacts on population growth associated with potential future development under the proposed Project would be less than significant

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. There is one (1) existing single-family residence and related structures (e.g., garage/shed) on the northwest corner of APN 020-120-03S. This residence is proposed to remain. Thus, development of the Project would not result in the physical displacement of people or housing. As a result, the Project would have no impact.

4.14.3 Mitigation Measures

None required.

¹⁸ 8.74 acres multiply by 20 dwelling units per acre (maximum density permitted in the MU zone district).

¹⁹ Population source: California Department of Finance. Number of population generated from 172 units is calculated using Kerman's household size of 3.44 (source: U.S. Census Bureau, ACS 5-year estimates, 2019-2024).



4.15 PUBLIC SERVICES

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?			X	
ii. Police protection?			X	
iii. Schools?			X	
iv. Parks?			X	
v. Other public facilities?			X	

4.15.1 Environmental Setting

The Project Area would be annexed into Kerman city limits and thus, would be subject to fees for the construction, acquisition, and improvements for public services and facilities. Public services and facilities are further described below.

Fire Protection Services

Fire protection services in the city are provided by the North Central Fire Protection District (“District”). The District, formed on July 31, 1947, currently operates a total of six (6) fire stations and one (1) headquarter, serving over 320 square miles and a population of 50,000, including unincorporated areas along the northern and western borders of the City of Fresno, the incorporated City of Kerman, and the township of Biola. Fire Station 55, located at 15850 W Kearney Blvd, Kerman, CA 93630, serves the City of Kerman and its surrounding unincorporated areas. The station is equipped with Engine No. 55, staffed by a minimum of four (4) firefighters, Truck No. 55, a 105-foot smel ladder truck with 400-gallon capacity, and Water Tender No. 55, which holds up to 3,000 gallons of water. ²⁰ The District reviews all building permits and subdivision maps to ensure the adequate location of access and fire suppression equipment, as well as conducts fire protection system inspections of new construction and routine fire

²⁰ North Central Fire Protection District. Fire Station 55 Kerman. Accessed on July 28, 2023, <https://www.northcentralfire.org/fire-station-55-kerman>



and life safety inspections of existing buildings. The General Plan Public Health and Safety Element includes the following goals and policies to reduce the potential for fire hazards and fire demand:

Policy PH-2.1 Adequate Staffing and Equipment. *The City shall coordinate with the North Central Fire District through the site plan review process and the State's environmental review process to ensure that future development does not outpace the expansion of the Central County Fire Department staffing, and the development of strategically located and fully equipped fire stations.*

Policy PH-2.2 Adequate Water Supply for Fire Suppression. *The City shall require new Projects to have adequate water supplies to meet the fire-suppression needs of the Project without compromising existing fire suppression services to existing uses.*

Policy PH-2.3 North Central Fire District Capital Improvement Plan. *The City shall encourage North Central Fire District to establish a 20-year Capital Improvement Plan that includes increased service capacity in Kerman, including a fire ladder truck and fire station.*

Policy PH-2.4 Fire Prevention Education. *The City shall continue to coordinate with North Central Fire District in providing education on fire prevention training to City staff, residents, and business owners.*

Police Protection Services

Police protection services in the city are provided by the Kerman Police Department (KPD). The KPD is located at 850 South Madera Avenue, Kerman, CA 93630, which is approximately 1.2 miles south of the Project Area. The KPD is staffed with 22 full-time officers and maintains 28 vehicles. The General Plan identifies the following policies to provide effective and responsive police protection.

Policy PH-1.1 Police Officer Ratio. *The City shall strive to achieve a ratio of one officer per 700 citizens to ensure adequate staffing to provide law enforcement services.*

Policy PH-1.2 Police Department Response Times. *The City shall continue to support the Police Department in maintaining prompt response times.*

Policy PH-1.3 Community Crime Prevention and Public Safety. *The City shall actively involve the community in crime prevention and public safety awareness by educating and involving the public in all the tenets of community-oriented public safety.*

Policy PH-1.4 Video Policing Plan for New Projects. *The City shall require large residential developments (50 or more units) and large commercial developments (more than 50,000 square feet) to include a video policing plan.*

Schools

Educational services within the city are primarily served by the Kerman Unified School District (KUSD), which was formed in 2002, after merging the smaller districts in the area. KUSD's service area includes the City of Kerman and spans as far north to the San Joaquin River and south to West South Avenue. KUSD consists of approximately 5,600 students with eight (8) campuses: Goldenrod Elementary School, Kerman-Floyd Elementary School, Liberty Elementary School, Sun Empire Elementary School, Kerman Middle School, Kerman High School, and Enterprise



High School (alternative education programs), and Kerman Unified Online School.²¹ Schools within a one (1)-mile radius of the Protect Area include Harvest Elementary School (adjacent south of the Project), Kerman High School (0.5 mile south), Kerman Middle School (0.9 mile south), and Kerman-Floyd Elementary School (1.0 mile southeast). Funding for schools and school facilities impacts is outlined in Education Code *Section 17620* and Government Code *Section 65995 et. seq.* (State statutes) which govern the amount of fees that can be levied against new development. These fees are used to construct new or expanded school facilities. Payment of fees authorized by the statute is deemed “full and complete mitigation.” A School Facilities Fee would be assessed for future development based on the rates in place at the time payment is due. In addition, the Kerman General Plan includes the following policy for educational facilities:

Policy PFS-1.6 Educational Facilities and Programs. *The City shall continue supporting the provision of excellent schools and high-quality educational and vocational training facilities and programs to ensure residents have fair and equal access to social and educational opportunities.*

Parks and Recreation

Park and recreation facilities are overseen by the city of Kerman Parks and Recreation Department. Currently, there are approximately 50 acres of parkland, including fourteen (14) City parks: Sunset Playground, Vineland Playground, Plaza Veterans Park, B Street Park, Wooten Park, Kiwanis Park, Katey’s Kids Park, Trini’s Park, Rotary Park, Lions Park, Kerckhoff Park, Soroptimist Park, Northwest Park, and Philip Gallegos Play Park. Construction is also underway on Hart Ranch Park, which will add approximately 15 acres of parkland. In addition, the City has acquired approximately 56 acres of land for future park development.²² The General Plan Conservation, Open Space, and Recreation Element includes the following goals and policies related to park and recreational facilities and services:

Policy COS-2.1 Parkland Standard. *The City shall continue to acquire and develop adequate park sites to serve future City growth at a standard of 4 acres of combined park and open space land per 1,000 residents.*

Policy COS-2.2 Parkland Dedication. *The City shall continue to require developers to dedicate parkland or pay in-lieu fees.*

Policy COS-2.9 Parks and Open Space Funding. *The City shall continue to pursue a combination of public and private funds, regulatory processes, and innovative strategies to fund parkland development and maintenance.*

Policy COS-2.11 Land and Monetary Donations for Parks. *The City shall continue to seek land and monetary donations towards park facilities. The City may announce and recognize these efforts in recreation schedules, publications, plaques, notices, or other appropriate methods.*

Policy COS-2.12 Private Recreational Facilities. *The City shall encourage the development of private recreational facilities to increase the availability of local recreational amenities such as racquetball, mini-golf, softball, and rock climbing.*

²¹ Kerman Unified School District. About Us. Accessed on July 28, 2023, <https://www.kermanusd.com/domain/10>

²² City of Kerman. Parks. Accessed on July 28, 2023, <https://cityofkerman.net/park-facilities/>



***Policy COS-2.13 City Recreation Programs.** The City will continue to offer recreational programs designed to serve all ages and abilities within the community with the goal of enhancing health outcomes and overall quality of life for all residents.*

4.15.2 Impact Assessment

Would the Project:

a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

3. i. Fire protection?

Less than Significant Impact. The Project Area is currently served by the North Central Fire Protection District (“District”) and would continue to be served by the District after annexation into the City of Kerman. Fire Station No. 55 is approximately 1.0 mile southwest of the Project Area. According to the District, a new fire station would be required when the population reaches 20,000-25,000. Kerman’s current population is approximately 17,256; the Project would not result in an additional 2,700 or more residents. In addition, the District confirmed that there are enough fire fighters on duty to serve residents within a five (5) mile radius of the Fire Station while still meeting the District’s performance objectives. Therefore, the Project’s proximity to the existing Fire Station would support adequate service ratios, response times, and other performance objectives for fire protection services.

Through the entitlement and building permit process, the Project would be required to comply with the CBC and Uniform Fire Code to ensure fire safety elements are incorporated into Project design. Proposed interior streets would be required to provide appropriate widths and turning radii to safely accommodate emergency response and the transport of emergency/public safety vehicles. The Project would also be designed to meet District requirements regarding water flow, water storage requirements, hydrant spacing, infrastructure sizing, and emergency access. compliance, impacts would be less than significant.

ii. Police protection?

Less than Significant Impact. The Project Area would be annexed into City limits and therefore would be served by the Kerman Police Department (KPD). The KPD is located at 850 South Madera Avenue, Kerman, CA 93630, which is approximately 1.2 miles south of the Project Area. The Project’s proximity to the existing station would support adequate service ratios, response times, and other performance objectives for police protection services. For these reasons, it can be determined that the Project would not result in the need for new or altered facilities that could have an environmental impact and a less than significant impact would occur.

iii. Schools?

Less than Significant Impact. The Project Area is within the Kerman Unified School District (KUSD) with four (4) schools within a one-mile radius including Harvest Elementary School (adjacent south of the Project), Kerman High School (0.5 mile south), Kerman Middle School (0.9 mile south), and Kerman-Floyd Elementary School (1.0 mile southeast). Since residential development is proposed, the Project would introduce residents to the area and



therefore could generate new students that would increase the school districts' enrollment. KUSD's per-unit enrollment rate is 0.963 students per dwelling. Therefore, development of Parcel 1 would generate approximately 166 students. To offset impacts of the development, a school impact fee would be assessed for the Project based on the rates in place at the time payment is due. Future development of the Parcel 2 would also require payment of school impact fees at the time development is proposed. As stated in Government Code *Section 65995 et. seq.*, payment of a school impact fee is deemed full and complete mitigation for potential impacts to schools caused by development. Therefore, payment of the assessed School Impact Fee would reduce impacts related to new school facilities resulting from implementation of the Project and impacts would be less than significant.

4. iv. Parks?

Less than Significant Impact. Park and recreational facilities are typically impacted by an increase in use from residential development. The Project proposes residential development that would introduce residents to the area and therefore could increase the demand for and use of existing public parks or other recreational facilities. The City aims to maintain a standard of 4 acres of combined park and open space land per 1,000 residents (General Plan *Policy COS-2.1*). The Project proposes approximately 1.54 acres of park space within the subdivision. The Project would also be required to pay in-lieu fees to mitigate any potential impacts to the City's park and recreation facilities generated by the incremental population increase. The provision of park and open space and payment of in-lieu fees would reduce any impacts resulting from increased residential demand for park and recreational facilities so as to not cause substantial physical deterioration of the public facilities. For these reasons, the Project would have a less than significant impact.

v. Other public facilities?

Less than Significant Impact. As previously discussed, the Project would introduce residents to the area and thus increase the demand for other public services, such as courts, libraries, hospitals, etc. Increased demand as a result of the Project could result in development or expansion of public facilities. Typical environmental impacts associated with the development of these facilities include air quality, greenhouse gas emissions, noise, traffic, etc. The expansion of these facilities would be subject to CEQA as they are proposed. In addition, future development would be subject to the payment of impact fees in order to mitigate any potential impacts to these public facilities. As a result, the Project would have a less than significant impact.

4.15.3 Mitigation Measures

None required.



4.16 RECREATION

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			X	
b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?			X	

4.16.1 Environmental Setting

See [Section 4.15](#).

4.16.2 Impact Assessment

Would the Project:

- a) *Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

Less than Significant Impact. Park and recreational facilities are typically impacted by an increase in use from residential development. The Project proposes residential development that would introduce residents to the area and therefore could increase the demand for and use of existing public parks or other recreational facilities. The City's parkland standard is four (4) acres of combined park and open space per 1,000 residents (General Plan *Policy COS-2.1*). The City also requires developers to dedicate parkland or pay in-lieu fees (General Plan *Policy COS-2.1*) to mitigate any potential impacts to the City's parks and other recreational facilities. Per the City of Kerman Community Development Department, the Project would be required to pay in-lieu fees into a program or plan to mitigate and offset any potential impacts to recreational facilities. For these reasons, the Project would have a less than significant impact.

- b) *Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?*

Less than Significant Impact. The Project includes on-site recreational facilities as described under criterion a). Other than the on-site facilities, the Project would not require the construction or expansion of off-site recreational facilities. The on-site recreational facilities would be developed in accordance with on-site open space requirements pursuant to the KMC. Compliance would ensure that the facilities would not be in an area or be built to a scale that would cause an adverse physical effect on the environment. As a result, a less than significant impact would occur.

4.16.3 Mitigation Measures



None required.



4.17 TRANSPORTATION

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			X	
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?			X	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	
d) Result in inadequate emergency access?			X	

4.17.1 Environmental Setting

The Project Area is currently vacant and undeveloped, with no existing structures or improvements. Street frontage includes West Nielsen Avenue, a pavement/dirt road that is designated as a collector street in the 2040 City of Kerman General Plan Circulation Element that bounds the Project Area to the north, and North Madera Avenue a two (2)-lane highway (State Route 145) that bounds the Project Area to the east.

Fresno County Active Transportation Plan (ATP)

Fresno Council of Governments (FCOG) adopted the Fresno County Regional Active Transportation Plan (ATP) on May 30, 2024.²³ The ATP's goal is to create a safe, attractive, complete, and comfortable network for biking, walking, and other human-powered transportation. *Chapter 9* of the ATP provides a community profile, goals, and policies for the City of Kerman.

According to the ATP, there are no existing or planned walking facilities on West Nielsen Avenue. Planned bicycle facilities identified in the ATP include a Class II Bike Lane along West Nielsen Avenue across the northern boundary of the Project Area and along North Madera Avenue across the eastern boundary of the Project Area. This is consistent with the planned bicycle facilities identified in the City of Kerman 2040 General Plan Update Circulation Element.

General Plan

The Circulation Element of the Kerman General Plan established goals and policies to maintain the operations of existing roadway systems as new development occurs. These policies aim to prevent negative impacts caused by

²³ Fresno Council of Governments. (2024). 2024 Fresno County Regional Active Transportation Plan. Accessed August 7, 2024, <https://www.fresnocog.org/Project/active-transportation/>



new developments and ensure that adequate transportation system is provided. The following goals and policies are generally applicable to the proposed Project.

Goal CIRC-1.1 *To provide a safe and efficient roadway system that serves all users and enhances the community of Kerman.*

Policy CIRC-1.2 Complete Streets. *The City shall plan a multimodal transportation system that provides safe, comfortable, and convenient access that accommodates various vehicle types and users, including automobiles, agricultural equipment, public transit, bicyclists, and pedestrians.*

Policy CIRC-1.5 ADA Compliance. *The City shall strive to ensure that the circulation system is safe and accessible, consistent with the American with Disabilities Act (ADA), to allow mobility-impaired users, such as disabled persons and seniors, to safely travel within and beyond the city.*

Policy CIRC-1.9 Landscaped Medians. *The City shall continue to expand the construction and maintenance of landscaped medians on all expressways, arterials, and major collector roadways, focusing on low-water-use and drought tolerant plants.*

Policy CIRC-1.10 Adequate Egress/Ingress. *During subdivision review process, the City shall require that all subdivisions, except for cul-de-sac streets, have a minimum of two egress/ingress points.*

Policy CIRC-1.11 New Street Names. *During the review of subdivisions, the City shall ensure the new street names are continuations of existing streets for streets that are aligned, and that addresses are logically assigned.*

Policy CIRC-1.12 Residential Driveways. *During the development review process, the City shall strive to restrict residential driveways from entering onto collector and arterial streets.*

Goal CIRC-2 *To ensure the design, construction, and maintenance of a safe, efficient, and complete roadway system that is well designed, visually attractive, and provides access to all parts of Kerman.*

Policy CIRC-2.1 Level of Service (LOS) and Vehicle Miles of Travel (VMT) Standards. *The City shall maintain LOS standards for use in considering conditions of approval for discretionary development Projects and use VMT analysis as the standard for evaluating environmental impacts under the California Environmental Quality Act (CEQA).*

Policy CIRC-2.2 Maintain Adequate Level of Service (LOS). *The City shall plan the roadway system to maintain adequate roadway LOS to avoid congestion and reduce VMT. A level of service of C will be the desirable minimum service level in Kerman at which highway, arterial, and collector segments will operate. A level of service of B will be the desirable minimum service level in Kerman at which intersections and rail crossings will operate.*

Policy CIRC-2.5 Greenhouse Gas Reduction. *The City shall strive to achieve VMT reductions consistent with the California Air Resources Board (CARB) 2017 Scoping Plan statewide greenhouse gas (GHG) emission reduction goals of 40 percent below 1990 emissions levels by 2030, or the latest guidance from CARB, as updated.*

Policy CIRC-2.6 Vehicle Miles Traveled (VMT) Standards. *The City shall establish a 13 percent below baseline conditions as a clear and realistic VMT threshold of significance to determine impacts on the environment*



related to development Projects, or as determined and adopted through the Fresno Council of Governments (FCOG) SB 743 Regional Guidelines Development process. The City will develop a baseline using the FCOG VMT calculation tool.

Policy CIRC-2.7 Mitigation of Vehicle Miles Traveled (VMT) Transportation Impacts. *The City shall require Projects having potentially significant VMT transportation impacts under CEQA to implement feasible mitigation measures necessary to reduce the VMT for or induced by the Project to the applicable performance metrics. Such mitigation measures may include, but are not limited to:*

- Provide infrastructure and facilities for walking and bicycling, particularly those that connect with and ensure access to existing active transportation infrastructure and transit;
- Include on-site EV charging capabilities;
- Incorporate traffic-calming measures ;
- Unbundle parking (separate/optional cost) from residential units in multifamily housing developments;
- Provide incentives to carpool or use active transportation; and/or
- Provide payment into an in-lieu fee program to reduce VMT.

Goal CIRC-4 *To ensure adequate off-street parking that is safe.*

Policy CIRC-4.1 Parking on the Public Right-of-Way. *The City shall limit parking on the public right-of-way along, particularly along Madera Avenue, with public health and safety priorities.*

Policy CIRC-4.2 Parking Lots for New Projects. *During the development review process, the City shall ensure that parking lots for new Projects incorporate landscaping, adequate lighting, proper pedestrian and bicycle connectivity, and are designed to facilitate vehicle maneuverability.*

Goal CIRC-5 *To promote bicycling, walking, and using public transit, as functional alternatives to single-passenger automobile travel.*

Policy CIRC-5.1 Alternative Modes of Transportation. *The City shall encourage Project site designs and subdivision street and lot designs that support alternative modes of transportation, including public transit, bicycling, and walking.*

Policy CIRC-5.3 Continuous Bicycle Network. *The City shall design a safe and logical bicycle path network that links key destinations within the planning area to promote the use of bicycles as a mode of transportation to reduce greenhouse gas emissions and to encourage exercise.*

Policy CIRC-5.6 Pedestrian-Friendly Streets. *The City shall design and improve streets to be “pedestrian-friendly” by incorporating features including wide and unobstructed sidewalks, bulb outs at intersections, narrow traffic lanes at key locations to slow traffic speed, adequate street lighting, and trees for natural shade cover.*

CEQA Guidelines

Under Senate Bill 743 (SB743), traffic impacts are related to Vehicle Miles Traveled (VMT). The VMT metric became mandatory on July 1, 2020. Senate Bill (SB) 743 requires that relevant CEQA analysis of transportation impacts be



conducted using a metric known as vehicle miles traveled (VMT) instead of Level of Service (LOS). VMT measures how much actual automobile travel (additional miles driven) a proposed Project would create on California roads. If the Project adds excessive automobile travel onto roads, then the Project may cause a significant transportation impact. Therefore, LOS measures of impacts on traffic facilities are no longer a relevant CEQA criteria for transportation impacts.

To implement SB 743, the CEQA Guidelines were amended by adding *Section 15064.3*. According to *Section 15064.3*, VMT measures the automobile travel generated from a proposed Project (i.e., the additional miles driven). Here, ‘automobile’ refers to on-road passenger vehicles such as cars and light-duty trucks. If a proposed Project adds excessive automobile travel on California roads thereby exceeding an applicable threshold of significance, then the Project may cause a significant transportation impact.

Among its provisions, *Section 15064.3(b)* establishes criteria for analyzing transportation impacts. Specifically, *Section 15064.3(b) (1)* establishes a less than significant presumption for certain land use Projects that are proposed within ½-mile of an existing major transit stop or along a high-quality transit corridor. If this presumption does not apply to a land use Project, then the VMT can be qualitatively or quantitatively analyzed.

In the case that quantitative models or methods are not available to the lead agency to estimate the VMT for the Project being considered, provisions of CEQA Guidelines *Section 15064.3(b)(3)* permits the lead agency to conduct a qualitative analysis. The qualitative analysis may evaluate factors including but not limited to the availability of transit, proximity to other destinations, and construction traffic.

Lastly, *Section 15064.3(b)(4)* of the CEQA Guidelines states that “[a] lead agency has discretion to evaluate a Project’s vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a Project’s vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revision to model outputs should be documented and explained in the environmental document prepared for the Project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.”

SB 743 Technical Advisory

In April 2018, the Governor’s Office of Planning and Research (OPR) issued the Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory) (revised December 2018) to provide technical recommendations regarding VMT, thresholds of significance, and mitigation measures for a variety of land use Project types.

The Technical Advisory includes screening thresholds for agencies to use in order to identify when a Project should be expected to cause a less-than-significant impact without conducting a detailed study.

- *Screening Thresholds for Small Project.* Absent substantial evidence indicating that a Project would generate a potentially significant level of VMT, or inconsistency with a Sustainable Communities Strategy (SCS) or general plan, Projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than significant transportation impact. This threshold is based on a CEQA categorical exemption for existing facilities, including additions to existing structures of up to 10,00 square feet, so long



as the Project is in an area where public infrastructure is available to allow for maximum planned development and the Project is not in an environmentally sensitive area.

- *Map-Based Screening Threshold for Residential and Office Projects.* Residential and office Projects that locate in areas with low VMT, and that incorporate similar features (i.e., density, mix of uses, transit accessibility), will tend to exhibit similarly low VMT. Maps created with VMT data, for example from a travel survey or a travel demand model, can illustrate areas that are currently below threshold VMT. Because new development in such locations would likely result in a similar level of VMT, such maps can be used to screen out residential and office Projects from needing to prepare a detailed VMT analysis.
- *Presumption of Less Than Significant Impact Near Transit Thresholds.* Proposed CEQA Guideline Section 15064.3, subdivision (b)(1), states that lead agencies generally should presume that certain Projects (including residential, retail, and office Projects, as well as Projects that are a mix of these uses) proposed within ½ mile of an existing major transit stop or an existing stop along a high quality transit corridor will have a less-than-significant impact on VMT. This presumption would not apply, however, if Project-specific or location-specific information indicates that the Project will still generate significant levels of VMT.
- *Presumption of Less Than Significant Impact for Affordable Residential Development.* Adding affordable housing to infill locations generally improves jobs-housing match, in turn shortening commutes and reducing VMT. Therefore, a Project consisting of a high percentage of affordable housing may be a basis for the lead agency to find a less-than-significant impact on VMT.

According to the Technical Advisory, lead agencies, using more location-specific information, may develop their own more specific thresholds, which may include other land use types.

Fresno COG VMT Tool

Fresno Council of Governments (COG) and its member agencies, including the City of Kerman, has developed a series of SB 743 Implementation Regional Guidelines and Tools in 2021 to discuss and provide guidance for VMT analysis on screening land use development Projects under CEQA.²⁴ Subsequently, the City of Kerman officially adopted the COG's Regional Guidelines and Tools in 2022. According to the Guidelines, Projects can be screened out if:²⁵

- Within Transit Priority Area/High Quality Transit Corridor (within 0.5 miles of a transit stop, consistent with RTP/SCS, FAR > 0.75, limited parking, does not reduce the number of affordable housing units)
- Local-serving retail less than 50,000 square feet
- Low trip generator, generating less than 500 average daily trips (ADT)
- High level of affordable units
- Institutional/government and public service uses
- Projects located in low VMT zones, as identified in Fresno COG's screening map²⁶

²⁴ Fresno Council of Governments. Fresno COG's SB743 Regional Guidelines and Tools. Accessed on August 7, 2024, <https://www.fresnocog.org/Project/sb743-regional-guidelines-development/>

²⁵ Fresno Council of Governments. Fresno COG's SB743 Implementation Regional Guidelines. Accessed on August 7, 2024, https://fresnocog.wpenginepowered.com/wp-content/uploads/2021/01/Fresno-COG-VMT-Report_01-08-2021.pdf

²⁶ Fresno Council of Governments. Fresno County VMT Screening Application. Accessed August 7, 2024, <https://gis1.lsa.net/fcogvmt/>



If none of the screening criteria listed above applies, Project VMT of small Projects can be calculated using the Fresno VMT calculation tool. Small Projects include residential Projects with 500 dwelling units or fewer, office Projects with 375 employees or fewer, or mixed-use Projects that generate less than 5,000 ADT.

A VMT Analysis Report was prepared for the Project by JLB Traffic Engineering, Inc., dated February 19, 2025. The analysis was prepared for both the development of Parcel 1 (172-unit single-family subdivision) and potential development of Parcel 2 (mixed use portion). It should be noted that the Study analyzed the development of 179 single-family lots; however, only 172 single-family lots are proposed for the latest iteration of the Tentative Tract Map. This should not affect the outcome of the analysis since the proposed development of 172 lots would have less impact than the 179 lots that were analyzed in the Study. In addition to the development of the Project Site (i.e., Parcel 1), the analysis also includes potential build-out of Parcel 2 under the Mixed-Use land use designation, with the assumption of 150 multi-family dwelling units and 13,500 square-feet of commercial uses. While the both the proposed subdivision and Parcel 2 are analyzed, future development Parcel 2 may still require additional CEQA analysis when development is proposed. The VMT Analysis Report is provided in **Appendix F** and results are incorporated in the impact assessment below.

4.17.2 Impact Assessment

Would the Project:

- a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?***

Less Than Significant Impact. The Project would be required to comply with all Project-level requirements implemented by a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Compliance is further discussed below. Overall, the Project would not conflict with a program plan, ordinance, or policy addressing the circulation system and a less than significant impact would occur.

Roadway Facilities

Access to the site would be provided by one (1) point of ingress/egress from West Nielsen Avenue and one (1) point of ingress/egress to the south, which connects to a roadway that is being built along the southern boundary of the site. This new roadway along the southern boundary will provide access to Madera Avenue. The Project also provides five (5) stub streets connections to future development of the surrounding area, including two (2) points of ingress/egress to the west (i.e., APNs 020-120-17S and 020-120-28S), two (2) points of ingress/egress to the east (i.e., TPM 2024-01 Parcel 2), and one (1) point of ingress/egress to the north (i.e., APN 020-120-11). Internal circulation within the site would be provided by public streets in addition to pedestrian walkways.

The Project would be required to submit public improvement plans for off-site improvements through the building permit process, for review and approval by the City to ensure improvements would be consistent with adopted standards, specifications, and approved street plans. Through compliance, the Project would result in improvements to the roadway network consistent with the goals, objectives, and policies of the General Plan as shown on the Circulation Diagram and described in the Circulation Element.

Pedestrian and Bicycle Facilities

There are no existing pedestrian facilities including sidewalks, trails, or paths adjacent to the Project Area. The



Fresno County ATP and Circulation Element of the 2040 General Plan Update identifies planned Class II Bike Lane facilities along West Nielsen Avenue across the northern boundary of the Project Area and along North Madera Avenue across the eastern boundary of the Project Area.

The Project would also result in public street improvements along West Nielsen Avenue including concrete curb, gutter, sidewalk, and paving per City of Kerman Public Works Standards. Off-site improvements would be verified and ensured through the Building Permit process. Provision of the pedestrian and bicycle facilities would be ensured through the Building Permit process. Therefore, the Project would be consistent with the General Plan and ATP and thereby would not conflict with a program, plan, ordinance, or policy addressing bicycle and pedestrian facilities.

Transit Facilities

There are no existing or planned transit facilities adjacent to the Project Area as identified by the General Plan and Fresno County Rural Transit Agency (FCRTA). The closest bus stop to the Project is located approximately 420 feet south of the site on and Whitesbridge Road (SR 180) between South Madera Avenue and South 1st Street. This route runs twice daily from Firebaugh to Fresno, stopping in the City of Kerman a total of eight (8) times a day. Therefore, the Project would not conflict with a program, plan, ordinance, or policy addressing transit facilities.

b) Would the Project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less than Significant Impact. There are two land use categories identified within the Project. The single family and multi-family residential are both designated as a residential land use category and the commercial land uses are designated as retail land use category. Fresno COG's VMT Guidelines contain six (6) screening criteria that can be used to screen a Project from further VMT Analysis. However, since this Project includes a General Plan Amendment, the screening criteria would not apply. Therefore, a quantitative VMT analysis was conducted by JLB Traffic Engineering, Inc. for the proposed Project ([Appendix F](#)).

The City of Kerman VMT Guidelines provide the Fresno County average VMT per capita (for residential land uses) and per employee (for office/commercial non-retail land uses) as 16.1 and 25.6, respectively. The City's threshold targets a 13% reduction in VMT for residential and office/commercial non-retail land uses and a net zero (0) increase in regional VMT for commercial retail land uses. Therefore, the target VMT for residential land uses is 14.01 ($16.1 \times (1 - 0.13) = 14.01$) VMT per capita.

The Project's trip generation with land use, number of units, and square footages were provided to an approved Fresno COG modeler in order to conduct a project-specific VMT analysis using the Fresno COG Activity Based Model (ABM). The results of this analysis are summarized in [Table 4-16](#) below. Based on Fresno COG ABM VMT results, the Project's residential component has an average VMT of 13.90 VMT per capita, which is below the City's VMT threshold of 14.01 VMT per capita.

Table 4-16 VMT Results Prior to Mitigation

Project Components	Fresno COG ABM Results ¹	City of Kerman VMT Threshold ²
Residential	13.90	14.01
Retail	23,316,257	23,315,643
Note: 1. VMT Results per Fresno COG ABM. 2. VMT Threshold per <i>Fresno County SB 743 Implementation Regional Guidelines</i> for the City of Kerman		



Based on Fresno COG's ABM VMT results, the regional VMT with the retail component is 23,316,257 and the regional VMT without the retail component 23,315,643. As such, the retail component is expected to be above the City's threshold of no net increase in regional VMT. However, it is anticipated that the Project will benefit from Pass-By trips. Pass-By trip reductions are applied to vehicles already on the road adjacent to the Project. Per Caltrans guidelines, these rates were limited to 15 percent of the Project's retail trip generation. Therefore, the Project's total VMT will be reduced by 15 percent. 15 percent of the Project's daily trips is 110 trips (735 daily trips X 0.15=110.25 trips). According to the Fresno COG ABM, the average trip length for the Retail TAZ is 6.1 miles. After the reduction from Pass-By trips, the Regional VMT with the retail component is reduced by 671 miles (110 trips X 6.1 miles per trip = 671 miles). This reduces the Regional VMT with retail component to 23,315,586 (23,316,257 miles – 671 miles = 23,315,586 miles). As such, the Project is expected to decrease Regional VMT by 57 miles (23,315,586 - 23,315,643 = -57). These results are summarized in **Table 4-17** below. Therefore, both the residential and retail components of the Project are projected to result in a less than significant VMT impact.

Table 4-17 VMT Mitigations

Project Components	Fresno COG plus Project Regional VMT Results ¹	Reduction from VMT Pass-By	VMT After Mitigations	City of Kerman No Project Regional VMT Threshold ²	Significant VMT Impact?
Retail	23,316,257	671	23,315,586	23,315,643	No
Note: 5.VMT Results per Fresno COG ABM 6.VMT Threshold per <i>Fresno County SB 743 Implementation Regional Guidelines</i> for the City of Kerman					

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact. The Project design does not contain any geometric design features that would create hazards. Implementation of the Project would include off-site improvements along Nielsen and Madera Avenues and connections to existing utilities. These improvements are limited in scope and would connect to and improve the existing street and utility network. site would be accessible via one (1) point of ingress/egress from West Nielsen Avenue and one (1) point of ingress/egress to the south. The Project also provides five (5) stub streets connections to future development of the surrounding area, including two (2) points of ingress/egress to the west (i.e., APNs 020-120-17S and 020-120-28S), two (2) points of ingress/egress to the east (i.e., TPM 2024-01 Parcel 2), and one (1) point of ingress/egress to the north (i.e., APN 020-120-11). Adequate inside/outside turning radii are also proposed for fire and solid waste vehicle access. In addition, the Project would be required to submit public improvement plans through the Building Permit process for review and approval by the City to ensure offsite improvements would be consistent with adopted City Standards, Specifications, and the approved street plans. Compliance with such standards, specifications, and plans would ensure that any traffic hazards are minimized. Lastly, the Project proposes a residential development of a site that is planned and zoned for residential use within an area comprising existing and planned residential uses. Therefore, the Project does not propose an incompatible use because it is consistent with the existing development in the area and is similar in nature to the surrounding uses. As a result, implementation of the Project would result in a less than significant impact related to hazards due to roadway design features or incompatible uses.

d) Result in inadequate emergency access?



Less than Significant Impact. The Project does not involve a change to any emergency response plan. In addition, the City of Kerman Public Works Department and North Central Fire Protection District have reviewed the Project and imposed standard conditions to ensure adequate site access including emergency access. In the case that Project construction requires lane closures, access through West Neilsen Avenue would be maintained through standard traffic control and therefore, potential lane closures would not affect emergency evacuation plans. Thus, a less than significant impact would occur because of the Project.

4.17.3 Mitigation Measures

None required.



4.18 TRIBAL CULTURAL RESOURCES

<p>Would the Project: Cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC <i>Section 21074</i> as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:</p>	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC <i>Section 5020.1(k)</i> , or,		X		
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC <i>section 5024.1</i> . In applying the criteria set forth in subdivision (c) of PRC <i>section 5024.1</i> , the lead agency shall consider the significance of the resource to a California Native American tribe.		X		

4.18.1 Environmental Setting

See [Section 4.5](#).

4.18.2 Impact Assessment

Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- a) *Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or*

Less than Significant Impact with Mitigation Incorporated. As discussed in [Section 4.5](#), the Project Area do not contain any property or site features that are eligible for listing in the California Register of Historical Sources, or in a local register of historical resources as defined in PRC *Section 5020.1(k)*. Nevertheless, there is some possibility that a non-visible, buried site may exist and may be uncovered during ground disturbing construction activities which would constitute a significant impact. As such, implementation of **Mitigation Measure CUL-1** as described in [Section 4.5](#) would reduce any impacts to less than significant.



- b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.*

Less than Significant Impact with Mitigation Incorporated. The Project Area and its resources have not been determined by the City to be significant pursuant to *Section 5024.1*. However, as discussed in **Section 4.5**, there is some possibility that a non-visible, buried site may exist and may be uncovered during ground disturbing construction activities which could constitute a significant impact. Therefore, the Project shall incorporate ***Mitigation Measure CUL-1*** to assure construction activities do not result in significant impacts to any potential resources of significance to a California Native American tribe discovered above or below ground surface. Thus, if such resources were discovered, implementation of the required mitigation measures would reduce the impact to less than significant. As a result, the Project would have a less than significant impact with mitigation incorporated.

4.18.3 Mitigation Measures

The Project shall implement and incorporate, as applicable, the Tribal Cultural Resources related mitigation measures identified above and in the **MITIGATION MONITORING AND REPORTING PROGRAM** contained in **SECTION 5**.



4.19 UTILITIES AND SERVICE SYSTEMS

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effect?			X	
b) Have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years?			X	
c) Result in a determination by the wastewater treatment provider, which serves or may serve the Project that it has adequate capacity to serve the Project's Projected demand in addition to the provider's existing commitments?			X	
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			X	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			X	

4.19.1 Environmental Setting

The Project site would be annexed into Kerman city limits and thus, would be required to connect to water, wastewater, and stormwater services. Natural gas, electricity, and telecommunications are provided by private companies. Each utility system is described below.

Water

Water supply, usage, and services are described in [Section 4.10](#).

Wastewater

The City owns, operates, and maintains its wastewater collection and treatment system to provide wastewater service to developed properties within its city limits. The wastewater collection system consists of a network of 6-



inch and 8-inch diameter collection mains that connect to larger trunk mains ranging from 10-inch to 27-inch in diameter. The collection system includes two (2) permanent lift stations and one (1) temporary lift station.

The City's Wastewater Treatment Facility (WWTF) is located on Church Avenue west of Madera Avenue. The WWTF is permitted under Waste Discharge Requirements Order No. R5-2007-0115, issued by the California Regional Water Quality Control Board. The WWTF generally consists of a headworks, Biolac aeration system, two (2) clarifiers, sludge processing/handling facilities, three (3) storage ponds, and seven (7) disposal ponds. The City owns an additional 28 acres adjacent to the WWTF that can be used for additional disposal ponds in the future, if needed. The WWTF was designed to accommodate a daily maximum flow of 2.0 million gallons per day (MGD). The average daily flow for 2024 was 1.152 MGD. Assuming a 3.0 percent annual growth rate, the WWTF has sufficient capacity to serve planned growth until the year 2040. *Solid Waste*

Kerman contracts with Mid Valley Disposal for solid waste, recycling, and composting services. Collection is provided four (4) days a week to residential, commercial, and industrial customers. Mid Valley Disposal hauls solid waste to the American Avenue Landfill, about 6 miles southwest of Kerman, and recyclables to their new state-of-the-art Material Recovery Facility (MRF) in Fresno. The MRF is capable of processing 35 tons of material an hour for diversion to manufacturers and can process wood into wood chips and mulch safe for public use. Lastly, Mid Valley hauls compostable organic waste to a 68,000 square foot composting facility located in Kerman. Opened in 2017, the composting facility can handle 60,000 tons of organic material per year and produces high-quality finished compost.

Stormwater

Stormwater services are described in **Section 4.10**.

Natural Gas and Electricity

Pacific Gas & Electric (PG&E) would provide electricity supply, electricity transmission, and natural gas to new development at the Project site. According to the PG&E Distribution Investment Deferral Framework (DIDF) Map, there are PG&E-maintained power lines along the street frontages surrounding the Project site.²⁷

Telecommunications

Accordingly, telecommunications providers in the area incrementally expand and update their service systems in response to usage and demand. Upon request, the site would be connected to existing broadband infrastructure and subject to applicable connection and service fees.

4.19.2 Impact Assessment

Would the Project:

- a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?***

²⁷ PG&E. (2022). Distribution Investment Deferral Framework (DIDF) Map. Accessed on August 1, 2023, <https://www.pge.com/b2b/distribution-resource-planning/grid-needs-assessment-map.html>



Less than Significant Impact. Once annexed, the Project site would be required to connect to water, stormwater, and wastewater services, and utilize solid waste collection services. Natural gas, electricity, and telecommunications would be provided by private companies. The City has reviewed the Project to determine adequate capacity in these systems and ensure compliance with applicable connection requirements. In addition to connections to water, stormwater, solid waste, and wastewater services, the Project would be served by PG&E for natural gas and electricity and by the appropriate telecommunications provider for the Project site. Therefore, all wet and dry public utilities, facilities, and infrastructure are in place and available to serve the Project site without the need for relocated, new, or expanded facilities. While new utility and service connections would need to be extended to and from the Project site (e.g., sewer, stormwater runoff, electrical), these new connections would not result in a need to modify the larger off-site infrastructure. Therefore, the Project would not require or result in the relocation or construction of new or expanded facilities and as such, impact would be less than significant.

b) Have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less than Significant Impact. Water supply reliability is assessed based on the characteristics of the City's water supplies during various water year types. The City's 2020 UWMP defines these water year types as follows.

- Normal Year: this condition represents the water supplies the City considers available during normal conditions. This could be a single year or an average range of years that most closely represents the average water supply available to the supplier. To determine the amount of water available during a normal year, the City evaluated the total volume of water supplied over the last twenty years. During this period, the City's maximum water usage occurred during 2008. Therefore, the average year selected is 2008, when 1,273 MG of water was supplied.
- Single Dry Year – The single dry year is recommended to be the year that represents the lowest water supply available. The year 2001 represents the single dry year for the City, during which, the City supplied 787 MG of water.
- Five-Consecutive Year Drought – The driest five-year historical sequence for the supplier, which may be the lowest average water supply available for five years in a row. For the five-year drought period, the City evaluated the average volume of water that was supplied during the State's most recent drought period, which occurred during the years of 2012 to 2016. During this period, the average volume of water that was supplied was approximately 1,043 MG. Between 2012 and 2016, the volume of water supplied decreased at an average annual rate of approximately 5.7 percent.

According to the UWMP, the City is expected to have adequate water supplies during normal years to meet its projected demands through 2045. The UWMP also indicates that based on the resiliency of the groundwater basin and extraction of potable groundwater from City wells, it is not anticipated that a single or multiple dry year period will critically reduce the availability of water supply to the city. Anticipated groundwater supplies are sufficient to meet all demands through the year 2045 even under drought conditions. To continue to utilize groundwater, the UWMP stresses the importance of the City continuing its current efforts towards conservation. Demand reduction actions are described in Chapter 8: Water Shortage Contingency Plan of the UWMP. Each action has a penalty, charge, or other enforcement method to ensure compliance. Adherence to these requirements would ensure impacts would be less than significant.



Furthermore, as discussed under **Section 4.10**, adherence to connection requirements and recommendations pursuant to the City's conservation efforts (e.g., compliance with California Plumbing Code, efficient appliances, efficient landscaping, etc.) should not negatively impact water supply or impede water management. In particular, the proposed Project would be required to be built accordance with all mandatory outdoor water use requirements as outlined in the applicable California Green Building Standards Code, Title 24, Part 11, Section 4.304 – Outdoor Water Use and verified through the building permit process. As a residential development that would contain landscaping pursuant to SMC regulations, future development shall comply with the updated Model Water Efficient Landscape Ordinance (MWELO) (California Code of Regulations, Title 23, Chapter 2.7, Division 2), as implemented and enforced through the building permit process. Therefore, through compliance, the potential for the Project to substantially decrease groundwater supplies is limited and impacts would be less than significant.

Overall, based on the information collected from the UWMP, the Project would not generate significantly greater water demand as to substantially decrease groundwater supplies. Additionally, adherence to connection requirements and recommendations pursuant to water conservation efforts as well as compliance with applicable California Green Building Standards Code and MWELO would reduce water demand and reduce the potential for the Project to substantially decrease water supply available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years. For these reasons, the Project would have a less than significant impact.

c) Result in a determination by the wastewater treatment provider, which serves or may serve the Project that it has adequate capacity to serve the Project's Projected demand in addition to the provider's existing commitments?

Less than Significant Impact.

The WWTF was designed to accommodate a daily maximum flow of 2.0 million gallons per day (MGD). The average daily flow for 2024 was 1.152 MGD. Assuming a 3.0 percent annual growth rate, the WWTF has sufficient capacity to serve planned growth until the year 2040. Impacts would be less than significant.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less than Significant Impact. The Kerman General Plan Public Facilities and Services Element contains *Policy PFS-1.3 Integrated Waste Management System*, which requires the City to ensure that residents and businesses have a cost-effective, integrated waste management system. Solid waste services are subject to the California Integrated Waste Management Act of 1989 (AB 939), which requires each jurisdiction in California to divert at least 50% of its waste stream away from landfills either through waste reduction, recycling, or other means.

The City of Kerman contracts with Mid Valley Disposal for solid waste, recycling, and composting services. Mid Valley Disposal disposes solid waste at the American Avenue Landfill (SWIS Number 10-AA-009). The American Avenue Landfill will continue operation until 2031. It currently has a maximum throughput of 2,200 tons per day, a remaining capacity of 29,358,535 cubic yards, and a maximum permit capacity of 32,700,000 cubic yards.²⁸

²⁸ California Department of Resources Recycling and Recovery (2023). "SWIS Facility/Site Search." Accessed on October 11, 2023, <https://www2.calrecycle.ca.gov/SolidWaste/Site/Search>



Construction

CALGreen mandates locally permitted new residential building construction and demolition to recycle and/or salvage for reuse a minimum 65% of the nonhazardous construction and demolition debris generated during the Project. Further, the recycling of construction and demolition materials is required for any City-issued building or demolition permit that generates at least eight cubic yards of material by volume. Therefore, the Project would be required to implement techniques to reduce and recycle waste during construction activities in accordance with mandatory requirements under CALGreen as implemented through the building permit process. Compliance would be ensured through the building permit process. Therefore, through compliance, solid waste generated through construction activities is not anticipated to generate solid waste in excess of state or local standards, in excess of the capacity of the local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Therefore, the Project would have a less than significant impact.

Operations

The Project is anticipated to generate approximately 146 tons of solid waste per year (105 tons per year (0.28 tons per day / 1.03 cubic yards per day) for single-family residences and 41 tons per year (0.11 tons per day / 0.40 cubic yards per day) for multi-family residences) as estimated by CalEEMod ([Appendix A](#)). The estimation accounts for compliance with AB 939. According to the review of the Project by Mid Valley Disposal, the Project whole require three (3) bins for the single-family residences (recycling, organics, and trash). The multi-family development would require bins for trash, recycling, and organic services that could accommodate the anticipated waste generated per week, which would be approximately 2.8 cubic yards. Solid waste generated through Project operations would account for less than 0.1 percent of the daily permitted throughout capacity of the landfill. As such, Project operations are not anticipated to generate solid waste in excess of state or local standards, in excess of the capacity of the local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Therefore, the Project would have a less than significant impact.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less than Significant Impact.. As described under criterion d), Project construction and operational activities that generate solid waste would be handled, transported, and disposed of in accordance with AB 939 and CALGreen regulations related to solid waste. Ongoing operations would also comply with federal, state, and local solid waste regulations. The multi-family component of the Project would also be subject to AB 341, the state's mandatory commercial recycling law, AB 827, the state's customer access to recycling law. AB 341 requires all businesses that generate four cubic yards or more of solid waste per week and multi-family properties with five or more units to arrange for recycling services. AB 827 requires recycling and organics recycling containers at the "front-of-house" to collect waste generated. These containers are required to be placed adjacent to trash containers and be visible, easily accessible, and clearly marked. Compliance would be ensured through the building permit process. Therefore, through compliance, the Project would comply with laws and regulations that would ensure impacts related to solid waste are reduced to less than significant levels.

4.19.3 Mitigation Measures

None required.



4.20 WILDFIRE

If located in or near state responsibility or lands classified as very high fire hazard severity zones, Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			X	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				X
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				X
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				X

4.20.1 Environmental Setting

The City of Kerman is an urbanized community that is surrounded by agricultural lands. The City, inclusive of the Project Area, is not located in or near state responsibility or lands classified as moderate, high, or very high fire hazard severity zones as identified by CAL FIRE.²⁹ Rather, the Project site is within an “area of local responsibility” and in an area of low fire risk. As an area of local responsibility, the North Central Fire Protection District is responsible for providing fire protection services in Kerman (See [Section 4.15](#)).

4.20.2 Impact Assessment

²⁹ California Department of Forestry and Fire Protection. Fire Hazard Severity Zone Viewer. Accessed on August 7, 2024, <https://experience.arcgis.com/experience/03beab8511814e79a0e4eabf0d3e7247/>



If located in or near state responsibility or lands classified as very high fire hazard severity zones, Would the Project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact. The Project would not impair access to the existing roadway network. Construction may require lane closure; however, these activities would be short-term and access would be maintained through standard traffic control. Following construction, this roadway would continue to provide access to the site. Safe and convenient vehicular and pedestrian circulation would be provided in addition to adequate access for emergency vehicles. To determine and ensure adequate vehicular and pedestrian circulation and emergency vehicle access, the Project has been reviewed and conditioned by the City for compliance with applicable code and regulations including applicable emergency response and evacuation plans. Therefore, the Project would not substantially impair any emergency response plan or emergency evacuation plan and impacts would be less than significant.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact. The Project site is located on a relatively flat property with minimal slope and is not in an area that is subject to strong prevailing winds or other factors that would exacerbate wildfire risks. The site is highly disturbed and is not located within a wildland (i.e., wild, uncultivated, and uninhabited land), which precludes the risk of wildfire. Further, the Project Area is within an “area of local responsibility” and is not identified by Cal Fire to be in a fire hazard severity zone (FHSZ). For these reasons, no impact would occur as a result of this Project.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No Impact. Once annexed, the Project Area would be located within City limits. Therefore, all existing and proposed infrastructure such as roads and utilities would be required to be maintained accordingly. As previously discussed, all proposed Project components (including utilities, roadway, buildings, walls, and landscaping) would be located within the boundaries of the Project Area and have been reviewed and/or conditioned by the City for compliance with applicable codes and regulations. Through compliance, such infrastructure would not exacerbate fire risk or result in temporary or ongoing impacts to the environment and no impact would occur.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. The City, inclusive of the Project Area is not located in or near state responsibility or lands classified as very high fire hazard severity zones. The topography of the Project site is relatively flat with stable, native soils, and the site is not in the immediate vicinity of rivers or creeks that would be more susceptible to landslides. Therefore, no impact would occur.

4.20.3 Mitigation Measures

None required.



4.21 MANDATORY FINDINGS OF SIGNIFICANCE

Would the Project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		X		
b) Does the Project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects)?		X		
c) Does the Project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		X		

4.21.1 Impact Assessment

a) *Does the Project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?*

Less than Significant Impact with Mitigation Incorporated. The analyses of environmental issues contained in this Initial Study indicate that the Project is not expected to have substantial impact on the environment or on any resources identified in the Initial Study. Standard requirements that will be implemented through the entitlement process and the attached mitigation monitoring and reporting program have been incorporated in the project to



reduce all potentially significant impacts to less than significant, including *Mitigation Measures BIO-1, CUL-1, GEO-1, GHG-1, HAZ-1, HAZ-2, HAZ-3, NOI-1, NOI-2, and NOI-3*. Therefore, the Project would have a less than significant impact with mitigation incorporated.

b) Does the Project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects.)

Less than Significant Impact with Mitigation Incorporated. CEQA Guidelines *Section 15064(i)* states that a Lead Agency shall consider whether the cumulative impact of a project is significant and whether the effects of the project are cumulatively considerable. The assessment of the significance of the cumulative effects of a project must, therefore, be conducted in connection with the effects of past projects, other current projects, and probable future projects. Due to the nature of the Project and consistency with environmental policies, incremental contributions to impacts are considered less than cumulatively considerable. Standard requirements that will be implemented through the entitlement process and the attached mitigation monitoring and reporting program have been incorporated in the project to reduce all potentially significant impacts to less than significant, including *Mitigation Measures BIO-1, CUL-1, GEO-1, GHG-1, HAZ-1, HAZ-2, HAZ-3, NOI-1, NOI-2, and NOI-3*. The Project would not contribute substantially to adverse cumulative conditions, or create any substantial indirect impacts (i.e., increase in population could lead to an increased need for housing, increase in traffic, air pollutants, etc.). As such, Project impacts are not considered to be cumulatively considerable given the insignificance of project induced impacts. The impact is therefore less than significant with mitigation incorporated.

c) Does the Project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant Impact with Mitigation Incorporated. The analyses of environmental issues contained in this Initial Study indicate that the project is not expected to have substantial impact on human beings, either directly or indirectly. Standard requirements that will be implemented through the entitlement process and the attached mitigation monitoring and reporting program have been incorporated in the project to reduce all potentially significant impacts to less than significant, including *Mitigation Measures BIO-1, CUL-1, GEO-1, GHG-1, HAZ-1, HAZ-2, HAZ-3, NOI-1, NOI-2, and NOI-3*. Therefore, the Project would have a less than significant impact with mitigation incorporated.



5 MITIGATION MONITORING AND REPORTING PROGRAM

MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ORCHARDS AT GILL ESTATES

May 2025

This mitigation measure monitoring and reporting checklist was prepared pursuant to the California Environmental Quality Act (CEQA) Guidelines *Section 15097* and *Section 21081.6* of the Public Resources Code (PRC). The timing of implementing each mitigation measure is identified in the checklist, as well as identifies the entity responsible for verifying that the mitigation measures applied to a Project are performed. Project proponents are responsible for providing evidence that mitigation measures are implemented. As lead agency, the City of Kerman is responsible for verifying that mitigation is performed/completed.

Mitigation Measures	Party Responsible for Implementing Mitigation	Timing of Verification	Responsible for Verification	Verification of Completion	
				Date	Initials
Agriculture and Forestry Resources					
<p>Mitigation Measure AG-1: Reduce Conflicts Between Urban and Agricultural Uses. In order to reduce potential conflicts between urban and agricultural uses, the following measures shall be implemented:</p> <p>1. Potential residents shall be notified about possible exposure to agricultural chemicals at the time of purchase / lease of property within the development. Notification shall be provided by the project proponent to the potential resident. Notification shall occur at the time of each property sale or lease agreement, as demonstrated through disclosure statements included in the purchase agreements or lease documents, with a signed acknowledgement by the buyer/lessee. Verification that this notification process has been consistently implemented shall be provided by the project proponent to the City of Kerman Community</p>	<p>1. Project Proponent</p> <p>2. City of Kerman Community Development Department (Condition of Approval) and Project Proponent (Recordation)</p> <p>3. Project Proponent</p>	<p>1. Prior to occupancy approval for each unit</p> <p>2. Prior to final map approval</p> <p>3. Prior to occupancy approval for each unit</p>	<p>City of Kerman Community Development Department</p>		



<p>Development Department prior to the approval of occupancy for each property.</p> <p>2. A Right-to-Farm Covenant shall be recorded on each parcel map and residential tract map or be made a condition of each tract map or parcel map to protect continued agricultural practices in the area. The City of Kerman Community Development Department shall be responsible for requiring the condition as part of the tentative map approval. The project proponent shall be responsible for ensuring the covenant is recorded. Verification of recording shall occur by the City of Kerman Community Development Department prior to the final map approval.</p> <p>3. Potential residents and commercial tenants shall be informed of the Right-to-Farm Covenant at the time of purchase / lease of property within the development. Notification shall be provided by the project proponent to the potential resident. Verification shall occur at the time of each property sale or lease agreement, as demonstrated through disclosure statements included in the purchase agreements or lease documents, with a signed acknowledgement by the buyer/lessee. Verification that this notification process has been consistently implemented shall be provided by the project proponent to the City of Kerman Community Development Department prior to the approval of occupancy.</p>					
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Biological Resources					
<p>Mitigation Measure BIO-1: San Joaquin kit fox Avoidance. The following measures shall be implemented to avoid any potential impact to San Joaquin kit fox during construction. These measures are designed to avoid and minimize any impact on San Joaquin kit fox in the unlikely event an individual is present within the Study Area at any time during construction. A description of the measures shall be included in the construction plans submitted to the City of Kerman Community Development Department by the project proponent during the building permit process for each phase of construction. Incorporation of measures shall be verified by the City of Kerman Community Development Department prior to issuance of building permits for each phase.</p> <p>1. Prior to Construction: Prepare and conduct an employee education program prior to the start of construction. The program shall consist of a brief presentation by persons knowledgeable in kit fox biology and legislative protection to explain endangered species concerns to contractors, their employees, and military and/or agency personnel involved in the Project. The program shall include the following: A description of the San Joaquin kit fox and its habitat needs; a report of the occurrence of kit fox in the Project area; an explanation of the status of the species and its protection under the Endangered Species Act; and a list of measures being taken to reduce impacts to the species during Project construction and implementation (as summarized below). A fact sheet conveying this information shall be prepared for</p>	Project Proponent	Prior to issuance of building permits for each phase	City of Kerman Community Development Department		



<p>distribution to the previously referenced people and anyone else who may enter the Project site.</p> <p>2. Avoidance and Minimization Measures During Construction: The following measures shall be included within the worker education program and in any Project specification and contract.</p> <p>a. Project-related vehicles shall observe a daytime speed limit of 20 mph throughout the site in all Project areas, except on county roads and State and Federal highways; this is particularly important at night when kit foxes are most active. No nighttime construction shall occur, given the species is primarily nocturnal.</p> <p>b. To prevent inadvertent entrapment of kit foxes or other animals during the construction phase of a Project, all excavated, steep-walled holes or trenches more than 2 feet deep shall be covered at the close of each working day by plywood or similar materials. If the trenches cannot be closed, one or more escape ramps constructed of earthen fill or wooden planks shall be installed. Before such holes or trenches are filled, they shall be thoroughly inspected for trapped animals. If at any time a trapped or injured kit fox is discovered, the Service and the California Department of Fish and Game (CDFG) shall be contacted as noted under measure 13 referenced below.</p> <p>c. Kit foxes are attracted to den-like structures such as pipes and may enter stored pipes and become trapped or injured. All construction pipes, culverts,</p>					
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<p>or similar structures with a diameter of 4-inches or greater that are stored at a construction site for one or more overnight periods shall be thoroughly inspected for kit foxes before the pipe is subsequently buried, capped, or otherwise used or moved in any way. If a kit fox is discovered inside a pipe, that section of pipe shall not be moved until the Service has been consulted. If necessary, and under the direct supervision of the biologist, the pipe may be moved only once to remove it from the path of construction activity until the fox has escaped.</p> <p>d. All food-related trash items such as wrappers, cans, bottles, and food scraps shall be disposed of in securely closed containers and removed at least once a week from a construction or Project site.</p> <p>e. No firearms shall be allowed on the Project site.</p> <p>f. No pets, such as dogs or cats, shall be permitted on the Project site to prevent harassment, mortality of kit foxes, or destruction of dens.</p> <p>g. The use of rodenticides and herbicides in Project areas shall be restricted. This is necessary to prevent primary or secondary poisoning of kit foxes and the depletion of prey populations on which they depend. All uses of such compounds shall observe labels and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Food and Agriculture, and other State and Federal legislation, as well as additional Project-related restrictions deemed necessary by the Service. If rodent control must be conducted,</p>					
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<p>zinc phosphide shall be used because of a proven lower risk to kit fox.</p> <p>h. A representative shall be appointed by the Project proponent who will be the contact source for any employee or contractor who might inadvertently kill or injure a kit fox or who finds a dead, injured or entrapped kit fox. The representative will be identified during the employee education program, and their name and telephone number shall be provided to the Service.</p> <p>i. Upon completion of the Project, all areas subject to temporary ground disturbances, including storage and staging areas, temporary roads, etc., shall be re-contoured if necessary and revegetated, if possible, to promote restoration of the area to pre-Project conditions.</p> <p>j. Any contractor or employee responsible for inadvertently killing or injuring a San Joaquin kit fox shall immediately report the incident to their representative. This representative shall contact the CDFG immediately in the case of a dead, injured, or entrapped kit fox.</p> <p>k. The Sacramento Fish and Wildlife Office and CDFG shall be notified in writing within three working days of the accidental death or injury to a San Joaquin kit fox during Project-related activities. Notification must include the date, time, and location of the incident or the finding of a dead or injured animal and any other pertinent information.</p>					
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<p>I. New sightings of kit fox shall be reported to the California Natural Diversity Database (CNDDDB). A copy of the reporting form and a topographic map marked with the location of where the kit fox was observed shall also be provided to the U.S. Fish and Wildlife Service.</p>					
Cultural Resources					
<p>Mitigation Measure CUL-1: In order to avoid the potential for impacts to historic and prehistoric archaeological resources, the following measures shall be implemented in conjunction with the construction of each phase of the Project:</p> <p>If previously unknown historical, archeological, cultural, or paleontological resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified archeologist, historical resources specialist, or paleontologist, shall be consulted to determine whether the resource requires further study. Notification of discovery shall be provided to the City of Kerman Community Development Department.</p> <p>The qualified archeologist, historical resources specialist, or paleontologist shall make recommendations to the project proponent on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and City's policies and procedures related to historical, cultural, and paleontological resources. Notification of the measures</p>	Project Proponent	During construction activities for all phases	City of Kerman Community Development Department		



<p>shall be provided to the City of Kerman Community Development Department.</p> <p>If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the project proponent, who shall notify the City of Kerman Community Development Department. Appropriate measures for significant resources could include avoidance or capping, preservation in-place, recordation, additional archeological resting, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.</p> <p>No further grading shall occur in the area of the discovery until the City of Kerman Community Development Department approves the measures to protect these resources. Any historical, archeological, cultural, or paleontological artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.</p>					
Geology and Soils					
See Mitigation Measure CUL-1.	Project Proponent	During construction activities for all phases	City of Kerman Community Development Department		
Greenhouse Gas Emissions					
Mitigation Measure GHG-1 Prior to the approval of building permits, in order to meet with all project attributes in the 2022 Scoping Plan greenhouse gas emission thresholds, the	Project Proponent	Prior to issuance of building	City of Kerman Community		



project proponent shall present documentation to the satisfaction of the City of Kerman Community Development Department that each residential unit shall provide electric vehicle charging capabilities that meet the requirements of the latest version of the California Green Building Standards Code (CALGreen) Tier 2 Voluntary Standards as part of the final project designs.		permits for all phases	Development Department		
Hazards and Hazardous Material					
<p>Mitigation Measure HAZ-1: Asbestos Survey. Prior to the demolition or renovation of any existing structure on site, an Asbestos Survey shall be conducted to determine the quantity of asbestos-containing construction material to be removed in the Project. As regulated by National Emission Standards for Hazardous Air Pollutants (NESHAP), the inspection must be conducted by a Cal-OSHA Certified Asbestos Consultant (CAC). The Asbestos Survey report shall be submitted to the City of Kerman Community Development Department for review and approval. Alternatively, if the developer is opting to treat all of the material as RACM and will notify as such, the survey may be bypassed.</p> <p>A completed and signed Asbestos Notification Form must be submitted to the San Joaquin Valley Air Pollution Control District (SJVAPCD) 10 working days prior to the commencement of any regulated asbestos (RACM) abatement. If it is determined that there are asbestos-containing materials or soils on site, the developer shall utilize specialists/professionals for asbestos</p>	Project Proponent	Prior to approval of demolition permits	City of Kerman Community Development Department		



<p>removal/abatement to reduce potential health risks to construction workers. Demolition activities that would expose construction workers and/or the public to asbestos-containing materials shall be conducted in accordance with the applicable regulations, including, but not limited to:</p> <ul style="list-style-type: none"> • San Joaquin Valley Air Pollution Control District • California Health and Safety Code (Section 39650 et seq.) • California Code of Regulations (Title 8, Section 1529) • California Occupational Safety and Health Administration regulations (California Code of Regulations, Title 8, Section 1529 [Asbestos] and Section 1532.1 [Lead]) • Code of Federal Regulations (Title 40, Part 61 [asbestos], Title 40, Part 763 [asbestos], and Title 29, Part 1926 [asbestos and lead]) 					
<p>Mitigation Measure HAZ-2: Lead-Based Paint Inspection. Prior to the demolition of any existing structure on site, a lead-based paint inspection is required to determine whether the lead-based paint is present in or on the original building materials. The inspection shall be conducted on-site by a state-certified Lead Inspector or Assessor in accordance with the California Code of Regulations, Title 8, Section 1532.1. The investigation report shall be submitted to the City of Kerman Community Development Department for review and approval prior to issuance of a demolition permit.</p> <p>If it is determined that lead-based paint exists on site, the project proponent shall utilize professionals for lead-based</p>	<p>Project Proponent</p>	<p>Prior to approval of demolition permits</p>	<p>City of Kerman Community Development Department</p>		



<p>paint removal to reduce potential health risks to construction workers and/or the public. Pursuant Section 1532.1, construction workers must establish and implement a compliance program, and provide a written Pre-Job Notification to the nearest Division of Occupational Safety and Health Cal/OSHA office 24 hours before the start of a project.</p>					
<p>Mitigation Measure HAZ-3: Test for Agricultural Pesticides. Prior to building permit approval for the first construction phase, a limited Phase II investigation shall be conducted to assess the surface soil of the project site for residual organochlorine and lead arsenate pesticides. The Phase II investigation shall be conducted in accordance with guidelines developed by the Department of Toxic Substances Control (DTSC) and Environmental Protection Agency (EPA) for site assessments. The Phase II investigation shall estimate the potential threat to public health and the environment if concentrations of pesticides are encountered using methods outlined in DTSC's Preliminary Endangerment Assessment Guidance Manual and DTSC's Screening Level Human Health Risk Assessment guidance for implementing screening level risk analysis. The Phase II investigation shall be submitted to the City of Kerman Community Development Department for review and approval. If the Phase II testing reveals concentrations of organochlorine pesticides and lead arsenic above health-based screening levels for residential exposure, remediation of the site shall be required to address residual organochlorine and lead arsenate pesticides above health-based level of concern. Remediation may include excavation</p>	<p>Project Proponent</p>	<p>Prior to building permit approval for the first construction phase</p>	<p>City of Kerman Community Development Department</p>		



and disposal of impacted soil or capping elevated areas beneath paved areas. The Construction Contractor shall implement the recommendations outlined in the Phase II.					
Noise					
<p>Mitigation Measure NOI-1: To ensure that exterior noise levels at future residential and other noise-sensitive land uses within the project site do not exceed an Ldn of 60 dB due to transportation noise from adjacent roadways (N. Madera Avenue, W. Nielsen Avenue, and Harvest Elementary Road), the following noise attenuation measures shall be incorporated into the project design and implemented during construction. These measures shall be clearly depicted on the project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits.</p> <p>The project shall implement one or a combination of the following noise mitigation strategies to achieve the 60 dB Ldn noise contour within the project boundaries, consistent with the following existing noise contours:</p> <ul style="list-style-type: none"> • N. Madera Avenue: The 60 dB Ldn contour extends approximately 121 feet from the roadway centerline. • W. Nielsen Avenue: The 60 dB Ldn contour extends approximately 5 feet from the roadway centerline. • Harvest Elementary Road: The 60 dB Ldn contour extends approximately 42 feet from the roadway centerline. 	Project Proponent	Prior to issuance of building permit	City of Kerman Community Development Department		



<p>1. Building Setbacks: All proposed residential structures and other noise-sensitive uses shall be setback from the centerlines of the adjacent roadways by a distance sufficient to ensure that exterior noise levels do not exceed 60 dB L_{dn}. This shall be demonstrated through the project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits. The minimum setbacks shall be no less than:</p> <ul style="list-style-type: none">• N. Madera Avenue: 121 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB L_{dn} at a lesser setback.• W. Nielsen Avenue: 5 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB L_{dn} at a lesser setback.• Harvest Elementary Road: 42 feet from the roadway centerline, unless an alternative noise mitigation measure (Sound Wall) is implemented to achieve the 60 dB L_{dn} at a lesser setback. <p>2. Sound Walls: Where sufficient building setbacks alone are not feasible to achieve the 60 dB L_{dn} at outdoor activity areas or building facades of noise-sensitive uses, a continuous, solid sound wall with a minimum height of six (6) feet above the finished project site grade shall be constructed along the project boundary adjacent to the</p>					
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applicable roadway(s). This shall be demonstrated through the project's site, grading, landscape, building, and other required plans and are subject to review and approval by the City of Kerman Community Development Department prior to issuance of building permits.					
<p>Mitigation Measure NOI-2: To mitigate potential noise impacts from future stationary noise sources on existing or proposed noise-sensitive receptors within or adjacent to the Project site, the following measures shall be implemented:</p> <ol style="list-style-type: none"> 1. Trigger for Acoustical Analysis: Prior to the issuance of a building permit for any proposed commercial use that is reasonably anticipated to generate significant stationary noise (including, but not limited to, HVAC systems, loading docks, outdoor processing equipment, amplified sound, or other potentially loud operations) and is located within the following distances of an existing or proposed noise-sensitive receptor (e.g., residential dwellings, schools, hospitals, parks, libraries), the project proponent shall be required to prepare an acoustical analysis prepared by a qualified acoustical consultant. <ol style="list-style-type: none"> a. HVAC Mechanical Equipment: when equipment is within 50 feet of an existing or proposed noise-sensitive receptor. b. Truck Movements: when truck access routes are located within 100 feet of an existing or proposed noise-sensitive receptor. 	Project Proponent	Prior to issuance of building permit; and prior to issuance of occupancy	City of Kerman Community Development Department		



<p>c. Parking Lot Activities: when a parking lot is located within 50 feet of an existing or proposed noise-sensitive receptor.</p> <p>d. Loading Dock Activities: when loading docks are located within 100 feet of an existing or proposed noise-sensitive receptor.</p> <p>e. Compactor: when a compactor is located within 10 feet of an existing or proposed noise-sensitive receptor.</p> <p>2. Requirements for Acoustical Analysis: The acoustical analysis shall, at a minimum, identify all potential significant stationary noise sources associated with the proposed use, including operational characteristics, predict noise levels at the property line of the noise source and nearest existing or proposed noise-sensitive receptors, and evaluate the predicted noise levels against the City of Kerman’s applicable stationary noise standards in the General Plan and Municipal Code. If noise levels are predicted to exceed the City’s standards at sensitive receptors, the analysis shall recommend specific, feasible, and effective mitigation measures to achieve compliance with the City’s standards. The acoustical analysis shall be submitted by the project proponent to the City of Kerman Community Development Department during the entitlement process. All noise mitigation measures recommended in the acoustical analysis shall be clearly incorporated into the project’s site plans prior to issuance of building permits.</p>					
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<p>3. Implementation of Mitigation Measures: Mitigation measures may include but are not limited to: relocation or redesign of noise-generating equipment, installation of sound barriers or enclosures, use of quieter equipment or operational practices, limitations on hours of operation for specific noise-generating activities, or architectural soundproofing. The analysis shall clearly demonstrate the expected noise reduction and confirm that the City's noise standards will be met at all sensitive receptor locations. Prior to issuance of occupancy, the project proponent shall submit verification to the City of Kerman Community Development Department confirming that all required noise mitigation measures have been implemented in accordance with approved plans.</p>				
<p>Mitigation Measure NOI-3: The following mitigation measures and best management practices shall be applied during periods of project construction. Prior to issuance of building permits for all project phases, the project proponent shall include these measures and best management practices on the construction plans submitted to the City of Kerman Community Development Department. The Building Division shall verify that these measures and best management practices are included in the construction plans prior to approval of building permits.</p> <ul style="list-style-type: none"> • Adherence to City Ordinance: Construction activities are strictly prohibited outside the hours of 7:00 am and 10:00 pm, as mandated by the City of Kerman Municipal Code. Any work outside these hours requires prior 	Project Proponent	Prior to issuance of building permit	City of Kerman Community Development Division	



<p>written approval from the City of Kerman's Planning and/or Building Division, demonstrating necessity and implementation of enhanced noise mitigation measures.</p> <ul style="list-style-type: none">• Equipment Maintenance and Muffling: All construction equipment shall be maintained in proper working order with effective muffling devices that meet or exceed manufacturer specifications for noise reduction. Documentation of equipment maintenance, including muffler checks, shall be kept on-site and made available for inspection. During inspections by the City of Kerman's Building Division, non-compliant equipment shall be tagged and prohibited from use until proper maintenance or muffling is implemented and verified by the City.• Idling Reduction: Noise-producing equipment shall not be left operating, running, or idling when not actively in use by construction personnel. Operators shall be instructed and regularly reminded to turn off equipment during periods of inactivity. This requirement shall be included in contractor agreements.• Distance from Sensitive Receptors: Noise-producing construction equipment shall be strategically located and operated as far as feasible from noise-sensitive land uses (e.g., residences, schools, hospitals, parks). Site plans submitted with the construction documents shall identify noise-sensitive areas and demonstrate how equipment placement maximizes distance. The City's review of the construction site plan will assess the proposed equipment locations relative to sensitive receptors. Any significant deviations during construction will require justification and potential relocation of equipment as directed by the City.• Staging Area Location: Construction staging areas, where equipment and materials are stored and where less					
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<p>intensive activities may occur, shall be located at the maximum possible distance from noise-sensitive land uses. The location of staging areas shall be clearly indicated on the construction site plan. The approved site plan will dictate the permissible locations for staging areas. Any unauthorized staging in closer proximity to sensitive receptors will require immediate relocation.</p> <ul style="list-style-type: none"> • Construction Hours Signage: Clearly visible signs, in both English and Spanish, shall be posted at all construction site entrances and near adjacent sensitive receptors. These signs shall prominently display the permitted hours of construction activities and provide the name and contact phone number of a designated noise disturbance coordinator responsible for addressing noise complaints. The presence and legibility of these signs will be verified during initial site inspections and monitored throughout the construction period. Missing or inadequate signage will require immediate replacement. The contact information for the noise coordinator shall be provided to the City prior to the commencement of construction. 					
Tribal Cultural Resources					
See Mitigation Measure CUL-1.	Project Proponent	During construction activities for all phases	City of Kerman Community Development Department		



6 REPORT PREPARATION

Names of Persons Who Prepared or Participated in the Initial Study:

Lead Agency		
Lead Agency	City of Kerman Community Development Department (559) 550-0829	Jerry Jones, Community Development Director
Initial Study Consultant		
Initial Study	Precision Civil Engineering 1234 O Street Fresno, CA 93721 (559) 449-4500	Bonique Emerson, AICP, VP of Planning Jenna Chilingirian, AICP, Senior Planner Shin Tu, AICP, Senior Associate Planner
Technical Studies		
Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum	LSA	2565 Alluvial Avenue, Suite 112 Clovis, CA 93611 (559) 490-1210
Biological Resource Assessment	Argonaut Ecological Consulting, Inc.	2377 Gold Meadow Way, Ste 100 Gold River, CA 95670 (916) 803-1454
Noise Assessment	WJV Acoustics, Inc.	133 N. Church Street, Suite 203 Visalia, CA 93291 (559) 627-4923
Traffic Impact Study/VMT Analysis	JLB Traffic Engineering, Inc.	5928 E Kaviland Ave Fresno, CA 93727 (559) 570-8991



7 APPENDICES

7.1 Appendix A: Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum

Prepared by LSA dated August 22, 2024.

MEMORANDUM

DATE: August 22, 2024

To: Shin Tu, Associate Planner, Precision Civil Engineering, Inc.

FROM: Jessica Coria, Associate
Bianca Martinez, Air Quality Specialist

SUBJECT: Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum for the Orchard at Gill Estates Project in Kerman, California

INTRODUCTION

LSA has prepared this Air Quality, Energy, and Greenhouse Gas Emissions Technical Memorandum to evaluate the impacts associated with construction and operation of the proposed Orchard at Gill Estates Project (project) in Kerman, Fresno County, California. This analysis was prepared using methods and assumptions recommended in the San Joaquin Valley Air Pollution Control District's (SJVAPCD) *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI).¹ This analysis includes a description of the existing regulatory framework, an assessment of project construction and operation period emissions, and an assessment of greenhouse gas (GHG) emissions and energy impacts resulting from the proposed project.

PROJECT DESCRIPTION

The project site includes two parcels totaling approximately 39.13 acres (Assessor's Parcel Numbers [APNs] 020-120-06 and 020-120-03S) that are located on the south side of West Nielson Avenue between North Madera Avenue and North Del Norte Avenue in the City of Kerman. The project site is within the City of Kerman (City) Sphere of Influence (SOI) but outside of City limits and would require an annexation from the County of Fresno and a pre-zone/rezone to a zone district consistent with the Kerman General Plan. Local access to the site is provided by Nielson Avenue and North Madera Avenue. However, a road is currently being built along the southern boundary to provide ingress and egress access to Madera Avenue. Figure 1 shows the project location, and Figure 2 shows the project's site plan (all figures are included in Attachment A).

The proposed project site would be split into two parcels and one remainder. Parcel 1 would consist of 28.35 acres that is proposed to be subdivided into single-family lots and four outlots (A–D). A General Plan Amendment and zone change from General Commercial to Mixed-Use Development is proposed for Parcel 2. No development is proposed on Parcel 2. The remainder parcel would consist of 2.04 acres and is developed with an existing single-family residence.

¹ San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. *Guidance for Assessing and Mitigating Air Quality Impacts*. March 19. Website: www.valleyair.org/transportation/ceqa_idx.htm (accessed June 2024).

Development under Parcel 1 would include 179 single-family lots ranging from 3,690 to 6,729 square feet (sf). South of the subdivision, Outlot A (approximately 6,862 sf) and Outlot B (approximately 5,040 sf) will be used for public landscaping. Outlot C (approximately 66,926 sf) is proposed at the center of the subdivision as a stormwater basin and open space. Outlot D, (approximately 2,280 sf) is being proposed along Nielson Avenue for public landscaping. In addition, the proposed project would implement an internal network of local streets while increasing ingress and egress access, as previously mentioned. The proposed project would also comply with the 2022 California Green Building Standards Code (CALGreen Code) building measures and Title 24 standards. Based on the project's trip generation, the proposed project is estimated to generate 1,688 average daily trips for the residential development.²

Construction activities for the project include site preparation, grading, building construction, paving, and architectural coating. The proposed project would not require the import or export of soil. Grading site preparation and building activities would involve the use of standard earthmoving equipment such as large excavators, cranes, and other related equipment.

EXISTING LAND USES IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of the population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses that are sensitive to air quality. Impacts on sensitive receptors are of particular concern because those receptors are the population most vulnerable to the effects of air pollution. The project site is surrounded primarily by residential and agricultural uses. The closest sensitive receptors to the project site include a single-family home located east of the project site within 105 feet.

ENVIRONMENTAL SETTING

Air Quality Background

Air quality is primarily a function of local climate, local sources of air pollution, and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and, for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The proposed project is in Fresno County and is within the jurisdiction of the SJVAPCD, which regulates air quality in the San Joaquin Valley Air Basin (SJVAB).

The SJVAB is comprised of approximately 25,000 square miles and covers all of seven counties including Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare, and the western portion of an eighth, Kern. The SJVAB is defined by the Sierra Nevada mountains in the east (8,000 to 14,000 feet in elevation), the Coast Ranges in the west (averaging 3,000 feet in elevation), and the Tehachapi mountains in the south (6,000 to 8,000 feet in elevation). The valley is topographically

² Precision Civil Engineering, Inc. 2024. *Trip Generation – Table I: Project Trip Generation*. July.

flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay. An aerial view of the SJVAB would simulate a “bowl” opening only to the north. These topographic features restrict air movement through and out of the basin.

Both the State of California and federal government have established health-based Ambient Air Quality Standards (AAQS) for six criteria air pollutants: carbon monoxide (CO), ozone (O₃), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), lead (Pb), and suspended particulate matter (particulate matter less than 2.5 microns in diameter [PM_{2.5}] and particulate matter less than 10 microns in diameter [PM₁₀]). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O₃ and NO₂, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO₂, and Pb are considered local pollutants that tend to accumulate in the air locally.

Air quality monitoring stations are located throughout the nation and are maintained by the local air districts and State air quality regulating agencies. Data collected at permanent monitoring stations are used by the United States Environmental Protection Agency (USEPA) to identify regions as “attainment” or “nonattainment” depending on whether the regions meet the requirements stated in the applicable National Ambient Air Quality Standards (NAAQS). Nonattainment areas are imposed with additional restrictions as required by the USEPA. In addition, different classifications of attainment (e.g., marginal, moderate, serious, severe, and extreme) are used to classify each air basin in the State on a pollutant-by-pollutant basis. The classifications are used as a foundation to create air quality management strategies to improve air quality and to comply with the NAAQS. As shown in Table A, the SJVAB is designated as nonattainment by federal standards for O₃ and PM_{2.5} and nonattainment by State standards for O₃, PM₁₀, and PM_{2.5}.

Table A: Attainment Status of Criteria Pollutants in the San Joaquin Valley Air Basin

Pollutant	State	Federal
Ozone (1-hour)	Revoked	Nonattainment/Severe
Ozone (8-hour)	Nonattainment/Extreme	Nonattainment
PM ₁₀	Attainment	Nonattainment
PM _{2.5}	Nonattainment	Nonattainment
Carbon Monoxide	Attainment/Unclassified	Attainment/Unclassified
Nitrogen Dioxide	Attainment/Unclassified	Attainment
Lead	No Designation/Classification	Attainment
Sulfur Dioxide	Attainment/Unclassified	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified

Source: San Joaquin Valley Air Pollution Control District (2024).

PM₁₀ = particulate matter less than 10 microns in diameter

PM_{2.5} = particulate matter less than 2.5 microns in diameter

Ozone levels, as measured by peak concentrations and the number of days over the State 1-hour standard, have declined substantially as a result of aggressive programs by the SJVAPCD and other regional, State, and federal agencies. The reduction of peak concentrations represents progress in improving public health; however, the SJVAPCD still exceeds the State standard for 1-hour and 8-hour ozone levels. In addition, the SJVAB was designated as a serious nonattainment area for the

federal 1997 8-hour ozone level in June 2004. The USEPA lowered the 1997 0.80 parts per million (ppm) national 8-hour ozone standard to 0.75 ppm in 2008 and then to 0.70 ppm on October 1, 2015. The valley is classified as nonattainment for the 1-hour and 8-hour ozone standards at the State and federal levels, although a request for redesignation as attainment of the 1-hour ozone standard was submitted to the USEPA in 2014. During the 2021–2023 period, the Fresno-Sierra Air Monitoring Station located at Blythe Avenue and Chennault Avenue (i.e., the closest monitoring station to the project site monitoring ozone) recorded the following exceedances of the State and federal 1-hour and 8-hour ozone standards:³

- The federal 8-hour ozone standard had 15 exceedances in 2021, 5 exceedances in 2022, and 11 exceedances in 2023.
- The State 8-hour ozone standard had 16 exceedances in 2021, 5 exceedances in 2022, and an unknown number of exceedances in 2023.
- The federal 1-hour ozone standard had no exceedances during the 3-year period.
- The State 1-hour ozone standard had 6 exceedances in 2021, 1 exceedance in 2022, and an unknown number of exceedances in 2023.

Federal and State standards have also been established for PM_{2.5} over 24-hour and yearly averaging periods. PM_{2.5}, because of the small size of individual particles, can be especially harmful to human health. PM_{2.5} is emitted by common combustion sources such as cars, trucks, buses, and power plants, in addition to ground-disturbing activities. On February 7, 2024, the USEPA strengthened the NAAQS for PM_{2.5} by revising the primary (health-based) annual standard from 12.0 micrograms per cubic meter (µg/m³) to 9.0 µg/m³; however, a new attainment designation has not been issued. The SJVAB is considered a nonattainment area for the PM_{2.5} standard at the State and federal levels. During the 2021–2023 period, the Fresno-Tranquility Station located at 32650 West Adams Avenue (i.e., the closest monitoring station to the project site monitoring PM_{2.5}) recorded the following exceedances of the federal 24-hour PM_{2.5} standards:

- The State 24-hour PM_{2.5} standard had 12 exceedance in 2021, 12 exceedance in 2022, and an unknown number in 2023.
- The federal 24-hour PM_{2.5} standards had 7 exceedances in 2021 and no exceedances in 2022 and 2023.

The SJVAPCD is classified as a PM₁₀ nonattainment area at the State level and was redesignated from serious nonattainment to attainment of the federal PM₁₀ standard in 2008. Because the SJVAPCD was redesignated from nonattainment to attainment, a PM₁₀ maintenance plan was adopted in 2007 and is required to be updated every 10 years. From 2021 to 2023, the Fresno-Drummond Station located at 4706 East Drummond Street (the closest monitoring station to the

³ California Air Resources Board (CARB). 2020. iADAM Air Quality Data Statistics. Website: <https://www.arb.ca.gov/adam/topfour/topfour1.php> (accessed June 2024).

project site monitoring PM₁₀) recorded the following exceedances of the federal and State 24-hour PM₁₀ standards:

- The State 24-hour PM₁₀ standards had 20 exceedances in 2021, 133 exceedances in 2022, and an unknown number of exceedances in 2023.
- The federal 24-hour PM₁₀ standards had no exceedances in the 3-year period.

No exceedances of the State or federal CO standards have been recorded at any of the region's monitoring stations since 1991. The SJVAB is currently considered an attainment area for State and federal 8-hour and 1-hour CO standards.

Toxic Air Contaminant Background

The public's exposure to toxic air contaminants (TACs) is a significant environmental health issue in the State of California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. Health and Safety Code §39655 defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to Subsection (b) of United States Code (USC) Title 42, Section 7412, is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through the California Air Resources Board (CARB), is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) 1807 (the Tanner Air Toxics Act), AB 2588 (the Air Toxics "Hot Spot" Information and Assessment Act of 1987), and Senate Bill (SB) 25 (the Children's Environmental Health Protection Act). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. Once TACs are identified, CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.

Air toxics from stationary sources are also regulated in California under AB 2588 (the Air Toxics "Hot Spot" Information and Assessment Act of 1987). Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the designated air quality management district or air pollution control district. High-priority facilities are required to perform a Health Risk Assessment (HRA) and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

To date, CARB has designated nearly 200 compounds as TACs. Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines (DPM).

Energy

Electricity

Electricity is a manmade resource. The production of electricity requires the consumption or conversion of energy resources (including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources) into energy. Electricity is used for a variety of purposes (e.g., lighting, heating, cooling, and refrigeration, and for operating appliances, computers, electronics, machinery, and public transportation systems).

According to the most recent data available, in 2022, California's electricity was generated primarily by natural gas (47.5 percent), renewable sources (52.2 percent), large hydroelectric (7.2 percent), nuclear (8.7 percent), coal (less than 1.0 percent), and other unspecified sources. Total electric generation in California in 2022 was 287,220 gigawatt-hours (GWh), up 3.4 percent from the 2021 total generation of 277,764 GWh.⁴

The project site receives its electricity from Pacific Gas and Electric (PG&E). According to the California Energy Commission (CEC), total electricity consumption in the PG&E service area in 2022 was 104,695.0 GWh (35,245.7 GWh for the residential sector and 69,449.3 GWh for the nonresidential sector).⁵ Total electricity consumption in Fresno County in 2022 was 8,384.4 GWh (or 8,384,408,687 kilowatt-hours [kWh]).⁶

Natural Gas

Natural gas is a nonrenewable fossil fuel. Fossil fuels are formed when layers of decomposing plant and animal matter are exposed to intense heat and pressure under the surface of the Earth over millions of years. Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas is found in naturally occurring reservoirs in deep underground rock formations. Natural gas is used for a variety of uses (e.g., heating buildings, generating electricity, and powering appliances such as stoves, washing machines and dryers, gas fireplaces, and gas grills).

Natural gas consumed in California is used for electricity generation (45 percent), residential uses (21 percent), industrial uses (25 percent), and commercial uses (9 percent). California continues to depend on out-of-state imports for nearly 90 percent of its natural gas supply.⁷

PG&E is the natural gas service provider for the project site. According to the CEC, total natural gas consumption in the PG&E service area in 2022 was 4,449.2 million therms (1,866.2 million therms

⁴ California Energy Commission (CEC). 2022a. *2022 Total System Electric Generation*. Website: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2022-total-system-electric-generation> (accessed June 2024).

⁵ CEC. 2021a. *Electricity Consumption by Entity*. Website: <http://www.ecdms.energy.ca.gov/elecbyutil.aspx> (accessed June 2024).

⁶ CEC. 2020a. *Electricity Consumption by County and Entity*. Websites: <http://www.ecdms.energy.ca.gov/elecbycounty.aspx> and <http://www.ecdms.energy.ca.gov/elecbyutil.aspx> (accessed June 2024).

⁷ CEC. 2021c. *Supply and Demand of Natural Gas in California*. Website: <https://www.energy.ca.gov/data-reports/energy-almanac/californias-natural-gas-market/supply-and-demand-natural-gas-california> (accessed June 2024).

for the residential sector and 2,583.0 million therms for the nonresidential sector).⁸ Total natural gas consumption in Fresno County in 2022 was 319.4 million therms (319,435,645 therms).⁹

Fuel

Petroleum is also a nonrenewable fossil fuel. Petroleum is a thick, flammable, yellow-to-black mixture of gaseous, liquid, and solid hydrocarbons that occurs naturally beneath the Earth's surface. Petroleum is primarily recovered by oil drilling. It is refined into a large number of consumer products, primarily fuel oil, gasoline, and diesel.

The average fuel economy for light-duty vehicles (autos, pickups, vans, and sport utility vehicles [SUVs]) in the United States has steadily increased from about 14.9 miles per gallon (mpg) in 1980 to 22.9 mpg in 2021.¹⁰ Federal fuel economy standards have changed substantially since the Energy Independence and Security Act was passed in 2007. This act, which originally mandated a national fuel economy standard of 35 mpg by year 2020,¹¹ applies to cars and light trucks of Model Years 2011 through 2020. In March 2020, the USEPA and National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy standards for Model Years 2024–2026 Passenger Cars and Light Trucks, further detailed below.

Gasoline is the most-used transportation fuel in California, with 97 percent of all gasoline being consumed by light-duty cars, pickup trucks, and SUVs. According to the most recent data available, in 2022, total gasoline consumption in California was 316,425 thousand barrels or 1,597.6 trillion British Thermal Units (BTU).¹² Of the total gasoline consumption, 299,304 thousand barrels or 1,511.2 trillion BTU were consumed for transportation.¹³ Based on fuel consumption obtained from CARB's California Emissions Factor Model, Version 2021 (EMFAC2021), approximately 366.2 million gallons of gasoline and approximately 157.8 million gallons of diesel will be consumed from vehicle trips in Fresno County in 2024.

Greenhouse Gas Background

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO₂);

⁸ CEC. 2021b. Gas Consumption by Entity. Website: <http://www.ecdms.energy.ca.gov/gasbyutil.aspx> (accessed June 2024).

⁹ CEC. 2020b. Gas Consumption by County and Entity. Website: <http://www.ecdms.energy.ca.gov/gasbycounty.aspx> and <http://www.ecdms.energy.ca.gov/gasbyutil.aspx> (accessed June 2024).

¹⁰ United States Department of Transportation (USDOT). "Table 4-23: Average Fuel Efficiency of U.S. Light Duty Vehicles." Website: <https://www.bts.gov/content/average-fuel-efficiency-us-light-duty-vehicles> (accessed June 2024).

¹¹ United States Department of Energy. 2007. "Energy Independence & Security Act of 2007." Website: <https://www.afdc.energy.gov/laws/eisa> (accessed June 2024).

¹² United States Energy Information Administration (EIA). 2022. California State Profile and Energy Estimates, Data. Website: www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_mg.html&sid=CA (accessed June 2024).

¹³ Ibid.

- Methane (CH₄);
- Nitrous oxide (N₂O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF₆).

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally occurring GHGs (e.g., CO₂, CH₄, and N₂O), some gases (e.g., HFCs, PFCs, and SF₆) are completely new to the atmosphere.

Certain gases (e.g., water vapor) are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere (“atmospheric lifetime”). The GWP of each gas is measured relative to CO₂, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO₂ over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO₂ equivalents (CO₂e).

REGULATORY FRAMEWORK

This section provides regulatory background information for air quality, GHGs, and energy.

Air Quality

Federal Regulations

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain California Ambient Air Quality Standards (CAAQS) for CO, O₃, SO₂, and NO₂ by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a

plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The CARB is the State’s “clean air agency.” The CARB’s goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Regional Regulations

San Joaquin Valley Air Pollution Control District. The SJVAPCD has specific air quality-related planning documents, rules, and regulations. This section summarizes the local planning documents and regulations that may be applicable to the proposed project as administered by the SJVAPCD with CARB oversight.

- **Rule 8011—General Requirements: Fugitive Dust Emission Sources.** Fugitive dust regulations are applicable to outdoor fugitive dust sources. Operations, including construction operations, must control fugitive dust emissions in accordance with SJVAPCD Regulation VIII. According to Rule 8011, the SJVAPCD requires the implementation of control measures for fugitive dust emission sources.
- **Regulation VIII—Fugitive PM₁₀ Prohibitions.** Rules 8011–8081 are designed to reduce PM₁₀ emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, and carryout and track out. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.
- **Rule 2201—New and Modified Stationary Source Review Rule.** This rule provides the review of new and modified stationary sources of air pollution to operate without interfering with the attainment or maintenance of ambient air quality standards and results in no net increase in emissions above specified thresholds.
- **Rule 4901—Wood Burning Fireplaces and Wood Burning Heaters.** The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices.
- **Rule 9510—Indirect Source Review.** This rule reduces the impact of nitrogen oxides (NO_x) and PM₁₀ emissions from new development projects. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through on-site mitigation, off-site SJVAPCD-administered projects, or a combination of the two. Compliance with SJVAPCD Rule 9510 reduces emissions impacts through incorporation of on-site measures as well as payment of an off-site fee that funds emission reduction projects in the SJVAB. The emissions analysis for Rule 9510 is detailed and is dependent on the exact project design that is expected to be constructed or installed. Compliance with Rule 9510 is separate from the California Environmental Quality Act (CEQA) process, though the control measures used to comply with Rule 9510 may be used to mitigate significant air quality impacts.

Guidance for Assessing and Mitigating Air Quality Impacts. The SJVAPCD prepared the GAMAQI to assist lead agencies and project applicants in evaluating the potential air quality impacts of projects in the SJVAB. The GAMAQI provides SJVAPCD-recommended procedures for evaluating potential air quality impacts during the CEQA environmental review process. The GAMAQI provides guidance on evaluating short-term (construction) and long-term (operational) air emissions. The most recent version of the GAMAQI, adopted on March 19, 2015, was used in this evaluation. It contains guidance on the following:

- Criteria and thresholds for determining whether a project may have a significant adverse air quality impact
- Specific procedures and modeling protocols for quantifying and analyzing air quality impacts
- Methods to mitigate air quality impacts
- Information for use in air quality assessments and environmental documents, including air quality, regulatory setting, climate, and topography data

Fresno Council of Governments. Fresno Council of Governments (Fresno COG) is responsible for regional transportation planning in Fresno County and participates in developing mobile source emission inventories used in air quality attainment plans.

Regional Transportation Plan/Sustainable Communities Strategy. Regional Transportation Plans (RTPs) are State-mandated plans that identify long-term transportation needs for a region's transportation network. Fresno COG's 2022 RTP charts the long-range vision of regional transportation in Fresno County through 2046. The RTP identifies existing and future transportation-related needs, while considering all modes of travel, analyzing alternative solutions, and identifying priorities for the anticipated available funding for the 1,100 projects and multiple programs included within the RTP. SB 375, which went into effect in 2009, added statutes to the California Government Code to encourage planning practices that create sustainable communities. It calls for each metropolitan planning organization to prepare a Sustainable Communities Strategy (SCS) as an integrated element of the RTP that is to be updated every 4 years. The SCS is intended to show how integrated land use and transportation planning can lead to lower GHG emissions from automobiles and light trucks. Fresno COG has included the SCS in its 2022 RTP.

Local Regulations

City of Kerman 2040 General Plan. The City of Kerman General Plan¹⁴ Public Health and Safety Element includes objectives and policies that work to protect public health, agricultural crops, and natural resources from air pollution. The following policies related to air quality are applicable to the proposed project:

¹⁴ City of Kerman. 2020. *The City of Kerman 2040 General Plan*. July. Website: <https://cityofkerman.net/318/2040-General-Plan-Update> (accessed July 2024).

- **Policy PH-7.1: Regional Coordination for Air Quality.** The City shall continue to participate in regional planning efforts to meet air quality goals.
- **Policy PH-7.4: Construction Best Management Practices.** The City shall require new projects to incorporate economically feasible SJVAPCD construction best management practices as conditions of approval, if the project exceeds the most recent SJVAPCD SPAL screening levels at the time of preparation.
- **Policy PH-7.5: Toxic Air Contaminants (TACs) and Health Risks Assessments (HRA).** The City shall require new development projects that produce Toxic Air Contaminants (TACs) or other health risks to retain a qualified professional to complete a SJVAPCD-compliant evaluation of all stationary source developments near sensitive receptors to determine if a project-specific Health Risks Assessment (HRA) would be required prior to approval. If required, the City shall require all identified TAC risks from the HRA to be mitigated to meet current SJVAPCD TAC thresholds.
- **Policy PH-7.7: Regional Coordination for Air Quality.** The City shall support programs that educate the public on climate change and encourage residents and businesses to become involved in activities and lifestyle changes that will aid in reduction of greenhouse gas emissions.

Energy

Federal and State agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation (USDOT), the United States Department of Energy, and the USEPA are three federal agencies with substantial influence over energy policies and programs. Generally, federal agencies influence and regulate transportation energy consumption through establishment and enforcement of fuel economy standards for automobiles and light trucks, through funding of energy-related research and development projects, and through funding for transportation infrastructure improvements. On the State level, the California Public Utilities Commission (CPUC) and the CEC are two agencies with authority over different aspects of energy.

The CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies and serves the public interest by protecting consumers and ensuring the provision of safe, reliable utility service and infrastructure at reasonable rates, with a commitment to environmental enhancement and a healthy California economy.

The CEC is the State's primary energy policy and planning agency. The CEC forecasts future energy needs, promotes energy efficiency, supports energy research, develops renewable energy resources, and plans for/directs State response to energy emergencies. The applicable federal, State, regional, and local regulatory framework is discussed below.

Federal Regulations

Energy Policy Act of 2005. The Energy Policy Act of 2005 seeks to reduce reliance on nonrenewable energy resources and provide incentives to reduce current demand on these resources. For example, under this Act, consumers and businesses can obtain federal tax credits for purchasing

fuel-efficient appliances and products (including hybrid vehicles), building energy-efficient buildings, and improving the energy efficiency of commercial buildings. Additionally, tax credits are available for the installation of qualified fuel cells, stationary microturbine power plants, and solar power equipment.

Corporate Average Fuel Economy Standards. On March 31, 2022, the NHTSA finalized the Corporate Average Fuel Economy (CAFE) standards for Model Years 2024–2026 Passenger Cars and Light Trucks. The amended CAFE standards would require an industry wide fleet average of approximately 49 mpg for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024–2025, and 10 percent annually for model year 2026. The final standards are estimated to save about 234 billion gallons of gasoline between model years 2030 to 2050.

State Regulations

Assembly Bill 1575, Warren-Alquist Act. In 1975, largely in response to the oil crisis of the 1970s, the State Legislature adopted AB 1575 (also known as the Warren-Alquist Act), which created the CEC. The statutory mission of the CEC is to forecast future energy needs, license power plants of 50 megawatts (MW) or larger, develop energy technologies and renewable energy resources, plan for and direct State responses to energy emergencies, and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code (PRC) Section 21100(b)(3) and *State CEQA Guidelines* Section 15126.4 to require Environmental Impact Reports (EIRs) to include, where relevant, mitigation measures proposed to minimize the wasteful, inefficient, and unnecessary consumption of energy caused by a project. Thereafter, the State Resources Agency created Appendix F to the *State CEQA Guidelines*. Appendix F assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. Appendix F of the *State CEQA Guidelines* also states that the goal of conserving energy implies the wise and efficient use of energy and the means of achieving this goal, including (1) decreasing overall per capita energy consumption; (2) decreasing reliance on fossil fuels such as coal, natural gas, and oil; and (3) increasing reliance on renewable energy sources.

Senate Bill 1389, Energy: Planning and Forecasting. In 2002, the State Legislature passed SB 1389, which required the CEC to develop an integrated energy plan every 2 years for electricity, natural gas, and transportation fuels for the California Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero emission vehicles (ZEVs) and their infrastructure needs, and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

In compliance with the requirements of SB 1389, the CEC adopts an Integrated Energy Policy Report every 2 years and an update every other year. The most recently adopted report includes the 2023

Integrated Energy Policy Report.¹⁵ The *Integrated Energy Policy Report* covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecast, and the California Energy Demand Forecast. The *Integrated Energy Policy Report* provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs.

Renewable Portfolio Standard. SB 1078 established the California Renewable Portfolio Standards program in 2002. SB 1078 initially required that 20 percent of electricity retail sales be served by renewable resources by 2017; however, this standard has become more stringent over time. In 2006, SB 107 accelerated the standard by requiring that the 20 percent mandate be met by 2010. In April 2011, SB 2 required that 33 percent of electricity retail sales be served by renewable resources by 2020. In 2015, SB 350 established tiered increases to the Renewable Portfolio Standards of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. In 2018, SB 100 increased the requirement to 60 percent by 2030 and required that all the State's electricity come from carbon-free resources by 2045. SB 100 took effect on January 1, 2019.¹⁶

California Energy Code. Energy consumption by new buildings in California is regulated by the Building Energy Efficiency Standards in Part 6 of Title 24 of the California Code of Regulations (CCR), known as the Energy Code. The CEC first adopted the Building Energy Efficiency Standards for Residential and Non-residential Buildings in 1978 in response to a legislative mandate to reduce energy consumption in the State. The Energy Code is updated every 3 years, with the most recent update consisting of the 2022 Energy Code that became effective January 1, 2023. Mid-cycle supplements to the 2022 Code will become effective on July 1, 2024. The efficiency standards apply to both new construction and rehabilitation of both residential and nonresidential buildings, and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. The building efficiency standards are enforced through the local building permit process. Local government agencies may adopt and enforce energy standards for new buildings, provided these standards meet or exceed those provided in the Energy Code.

California Green Building Standards Code (CALGreen Code). In 2010, the California Building Standards Commission (CBSC) adopted Part 11 of the Title 24 Building Energy Efficiency Standards, referred to as the CALGreen Code. The CALGreen Code took effect on January 1, 2011. The CALGreen Code is updated on a regular basis, with the most recent update consisting of the 2022 CALGreen Code standards that became effective January 1, 2023. The CALGreen Code established mandatory measures for residential and nonresidential building construction and encouraged sustainable construction practices in the following five categories: (1) planning and design, (2) energy efficiency, (3) water efficiency and conservation, (4) material conservation and resource efficiency, and (5) indoor environmental quality. Although the CALGreen Code was adopted as part

¹⁵ CEC. 2023. *2023 Integrated Energy Policy Report*. California Energy Commission. Docket Number: 23-IEPR-01.

¹⁶ California Public Utilities Commission (CPUC). 2019. Renewables Portfolio Standard Program. Website: [cpuc.ca.gov/rps](https://www.cpuc.ca.gov/rps) (accessed June 2024).

of the State's efforts to reduce GHG emissions, the CALGreen Code standards have co-benefits of reducing energy consumption from residential and nonresidential buildings subject to the standard.

California Energy Efficiency Strategic Plan. On September 18, 2008, the CPUC adopted California's first Long-Term Energy Efficiency Strategic Plan, presenting a roadmap for energy efficiency in California. The Strategic Plan was updated in 2011. The Plan articulates a long-term vision and goals for each economic sector and identifies specific near-term, mid-term, and long-term strategies to assist in achieving those goals. The Plan also reiterates the following four specific programmatic goals known as the "Big Bold Energy Efficiency Strategies" that were established by the CPUC in Decisions D.07-10-032 and D.07-12-051:

- All new residential construction will be zero net energy (ZNE) by 2020.
- All new commercial construction will be ZNE by 2030.
- 50 percent of commercial buildings will be retrofitted to ZNE by 2030.
- 50 percent of new major renovations of State buildings will be ZNE by 2025.

Regional Regulations

There are no regional regulations that apply to the proposed project.

Local Regulations

City of Kerman 2040 General Plan. The City's General Plan¹⁷ Energy Resource Conservation section under the Conservation, Open Space, and Recreation Element includes objectives and policies that work to minimize energy consumption and reduce greenhouse gas emissions as part of the statewide effort to combat climate change. The following policies related to energy are applicable to the proposed project: **Policy COS-5.1: Reduction of Fossil Fuels Reliance.** The City shall promote the development and use of renewable energy resources (e.g., solar, thermal, wind, tidal) to reduce dependency on petroleum-based energy sources.

- **Policy COS-5.3: Sustainable Building Practices.** The City shall promote sustainable building practices that incorporate a "whole systems" approach to design and construction that consumes less energy, water, and other non-renewable resources, such as facilitating passive ventilation and effective use of daylight.
- **Policy COS-5.4: Renewable Energy Features in New Projects.** During the development review process, the City shall encourage projects to integrate features that support the generation, transmission, efficient use, and storage of renewable energy sources.
- **Policy COS-5.6: Electric Vehicle Charging.** The City shall encourage and support expanding Electric Vehicle (EV) charging stations and the purchase of electric vehicles.

¹⁷ City of Kerman. 2020. *The City of Kerman 2040 General Plan*. July. Website: <https://cityofkerman.net/318/2040-General-Plan-Update> (accessed July 2024).

- **Policy COS-5.7: Energy Conservation Awareness.** The City shall increase awareness about energy efficiency and conservation to encourage residents, businesses, and industries to conserve energy.

Moreover, the City's General Plan¹⁸ has an Energy Conservation and Sustainable Development objective under the Housing Element which aims to encourage energy efficiency in all new and 2015–2023 housing. The following policies related to sustainability and energy are applicable to the proposed project:

- **Policy HE-6.1: Energy Conservation in New Housing.** The City shall encourage the use of energy conserving techniques in the siting and design of new housing.
- **Policy HE-6.2: State Energy Conservation Requirements.** The City shall actively implement and enforce all State energy conservation requirements for new residential construction.

Greenhouse Gas Emissions

This section describes regulations related to global climate change at the federal, State, and local level.

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the USEPA has the authority to regulate CO₂ emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs (CO₂, CH₄, N₂O, HFCs, NF₃, PFCs, and SF₆) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act. California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort set a GHG emission reduction target to reduce GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) CO₂e. The emissions target of 427 MMT CO₂e requires the reduction of 169 MMT from the State's projected

¹⁸ City of Kerman. 2020. *The City of Kerman 2040 General Plan*. July. Website: <https://cityofkerman.net/318/2040-General-Plan-Update> (accessed July 2024).

business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The CARB approved the Scoping Plan on December 11, 2008. It contains the main strategies California will implement to achieve the reduction of approximately 169 MMT CO₂e, or approximately 30 percent, from the State's projected 2020 emission level of 596 MMT CO₂e under a business-as-usual scenario (this is a reduction of 42 MMT CO₂e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reduction of 31.7 MMT CO₂e);
- The Low-Carbon Fuel Standard (15.0 MMT CO₂e);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO₂e); and
- A renewable portfolio standard for electricity production (21.3 MMT CO₂e).

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020 and sets the groundwork to reach long-term goals set forth in Executive Orders (EOs) S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. The CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,¹⁹ to reflect the 2030 target set by EO B-30-15 and codified by SB 32.

The 2022 Scoping Plan²⁰ was approved in December 2022 and assesses progress towards achieving the SB 32 2030 target and lay out a path to achieve carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping

¹⁹ CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf (accessed June 2024).

²⁰ CARB. 2022b. *2022 Scoping Plan Update*. Website: <https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf> (accessed June 2024).

Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Senate Bill 375 (2008). Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, the CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPOs). The CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies, and transportation investments meet the targets set by the CARB through SCSs. The SCSs are included with the RTP, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

Executive Order B-30-15 (2015). Governor Jerry Brown signed EO B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. The CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and, therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act. SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increase energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the CPUC for the private utilities and by the CEC for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to State energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197. In summer 2016, the Legislature passed and the Governor signed SB 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emission trajectory that would stabilize atmospheric GHG concentrations at 450 ppm CO₂e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air pollutant emissions data that are collected by the CARB was posted in December 2016.

Senate Bill 100. On September 10, 2018, Governor Brown signed SB 100, which raises California's renewable portfolio standard requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the Western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18. EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs the CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO₂e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Assembly Bill 1279. AB 1279 was signed in September of 2022 and codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter. This bill also requires California to reduce statewide GHG emissions by 85 percent compared to 1990 levels by 2045 and directs CARB to work with relevant state agencies to achieve these goals.

Regional Regulations

San Joaquin Valley Air Pollution Control District. Fresno County is located within the SJVAB, which is under the jurisdiction of the SJVAPCD. The SJVAPCD has regulatory authority over certain stationary and industrial GHG emission sources and provides voluntary technical guidance on addressing GHGs for other emission sources in a CEQA context. SJVAPCD initiatives related to GHGs are described below:

Climate Change Action Plan. The SJVAPCD Climate Change Action Plan (CCAP) was adopted on August 21, 2008. The CCAP includes suggested best performance standards (BPS) for proposed development projects. However, the SJVAPCD's CCAP was adopted in 2009 and was prepared

based on the State's 2020 GHG targets, which are now superseded by State policies (i.e., the 2022 California Green Building Code) and the 2030 GHG targets, established in SB 32.

Local Regulations

City of Kerman 2040 General Plan. The City's General Plan²¹ contains policies indirectly related to GHGs and climate change. This includes measures to improve transit efficiency, reduce truck idling, increase ridesharing, promote mixed land uses, and requiring the implementation of energy saving features such as solar energy systems, water efficient landscaping, and energy efficient, sustainable building standards. The following policies related to GHG emissions from the General Plan are applicable to the proposed project:

Circulation Element:

- **Policy CIRC-2.5: Greenhouse Gas Reduction.** The City shall strive to achieve VMT reductions consistent with the California Air Resources Board (CARB) 2017 Scoping Plan statewide greenhouse gas (GHG) emission reduction goals of 40 percent below 1990 emissions levels by 2030, or the latest guidance from CARB, as updated.
- **Policy CIRC-5.1: Alternative Modes of Transportation.** The City shall encourage project site designs and subdivision street and lot designs that support alternative modes of transportation, including public transit, bicycling, and walking.
- **Policy CIRC-5.2: Active Transportation.** The City shall encourage bicycling, walking, taking public transit, and carpooling as alternatives to driving single-passenger vehicles to reduce VMT, traffic congestion, and associated emissions from additional automobile use.

Housing Element:

- **Policy HE-1.6: Higher-Density, Mixed-Use, and Transit-Oriented Development.** The City shall promote development of higher-density housing, mixed-use, and transit-oriented development in areas located along major transportation corridors and transit routes and served by the necessary infrastructure.

Conservation, Open Space, and Recreation Element:

- **Policy COS-5.2: GHG Reduction in Coordination with Regional Agencies.** The City shall work with FCOG and the San Joaquin Valley Air Pollution Control District to develop and implement regional plans for the reduction of GHG emissions.

Public Health and Safety Element:

- **Policy PH-4.5: Urban Greening.** The City shall promote the use of urban greening techniques, such as cool pavement technology, parking lot shading, landscaping, and other

²¹ City of Kerman. 2020. *The City of Kerman 2040 General Plan*. July. Website: <https://cityofkerman.net/318/2040-General-Plan-Update> (accessed July 2024).

methods to offset climate change impacts and reduce greenhouse gas emissions for discretionary development and City-initiated projects.

METHODOLOGY

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips.

The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. The construction schedule of the proposed project is not yet known. Therefore, this analysis utilizes a CalEEMod default construction schedule, which anticipates construction to begin in February 2025 and take place for approximately 27 months, ending in 2027. This represents a conservative analysis, because if the proposed construction activities should occur at a later timeframe, estimated emissions would be expected to decrease into the future due to technological advances and the implementation of forthcoming regulatory requirements. The proposed project would not require the import or export of soil, which was also included in CalEEMod. This analysis also assumes use of Tier 2 construction equipment. The proposed project would also comply with the SJVAPCD Regulations VIII measures for fugitive dust. Other detailed construction information is currently unavailable; therefore, this analysis utilizes CalEEMod default assumptions.

Construction Health Risk Assessment

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

Operational Emissions

The air quality analysis includes estimating emissions associated with long-term operation of the proposed project. Consistent with the SJVAPCD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project.

As discussed previously in the Project Description section, the proposed project would include the construction of 179 single-family residential units and associated site improvements. The proposed project analysis was conducted using land use codes *Single Family Housing*, *City Park*, and *Other Asphalt Surfaces*. In addition, consistent with the project's *Trip Generation*, the analysis for the potential build-out of Parcel 2 under the Mixed Use Development land use designation assumed 150-multifamily dwelling units and 13,500 sf of commercial uses. Therefore, this analysis was conducted using land codes *Apartments Low Rise* and *Strip Mall*. Trip generation rates used in CalEEMod were based on the project's *Trip Generation*, which identifies 1,011 average daily trips for the multifamily housing and 735 average daily trips for the commercial uses. Trip generation rates used in CalEEMod for the project were based on the project's *Trip Generation*, which identifies that the proposed project would generate approximately 1,688 average daily trips.²² In addition, consistent with SJVAPCD Rule 4901, this analysis assumes that the proposed project would not include any wood burning (or natural gas) fireplaces. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions. The total emissions for the proposed single family residential development on Parcel 1, along with the maximum build-out that would be allowed on proposed Parcel 2 under the Mixed-Use land use designation were summed and compared to applicable regional thresholds recommended by the SJVAPCD. CalEEMod output sheets are included in Attachment B.

Energy Use

The analysis focuses on the four sources of energy that are relevant to the proposed project: natural gas, electricity, the equipment fuel necessary for project construction, and vehicle fuel necessary for project operations. For the purposes of this analysis, the amounts of electricity, natural gas, construction fuel, and fuel use from operations are quantified and compared to that consumed in Fresno County. The electricity and natural gas uses of the proposed project are analyzed on an annual basis. Electricity and natural gas uses were estimated for the project using default energy intensities by land use type in CalEEMod.

Greenhouse Gas Emissions

GHG emissions associated with the project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

THRESHOLDS OF SIGNIFICANCE

Air Quality

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;

²² Precision Civil Engineering, Inc. 2024. *Trip Generation – Table I: Project Trip Generation*. July.

- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under applicable federal or State ambient air quality standards;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Regional Emissions Thresholds

The SJVAPCD defines emissions thresholds in the GAMAQI, established based on the attainment status of the air basin in regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. The related impacts are discussed further in the Project Impacts section. The SJVAPCD regional emission thresholds for construction and operation are shown in Table B.

Table B: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (Tons per Year)					
	CO	NO _x	ROG	SO _x	PM ₁₀	PM _{2.5}
Construction	100	10	10	27	15	15
Operations	100	10	10	27	15	15

Source: *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015).

CO = carbon monoxide

NO_x = nitrogen oxides

PM_{2.5} = particulate matter less than 2.5 microns in size

PM₁₀ = particulate matter less than 10 microns in size

ROG = reactive organic gas

SJVAPCD = San Joaquin Valley Air Pollution Control District

SO_x = sulfur oxides

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the SJVAB, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

Health Risk Thresholds

Both the State and federal governments have established health-based AAQS for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For TACs, "substantial" is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the SJVAB:

- **MICR:** MICR is the estimated probability of a maximum exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations, 350 days per year. The SJVAPCD's *Update to the District's Risk Management Policy to Address the OEHHA Revised Risk Assessment Guidance Document* states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 20 in 1 million.
- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multi-pathway consideration when applicable. The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.
- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level. The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

Energy

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse impact related to energy if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Greenhouse Gas Thresholds

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse GHG emission impact if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, this analysis evaluates the GHG emissions based on the project's consistency with applicable State GHG reduction goals.

PROJECT IMPACTS

This section identifies the air quality, GHG, and energy impacts associated with implementation of the proposed project.

Air Quality

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from operational activities associated with the proposed land uses.

Consistency with Applicable Air Quality Plans

The proposed project is in a region classified as a nonattainment area. The main purpose of the air quality plan is to bring the area into compliance with the requirements of the federal and State air quality standards. To bring the San Joaquin Valley into attainment, the SJVAPCD adopted the *2022 Plan for the 2015 8-Hour Ozone Standard* in December 2022 to satisfy CAA requirements and ensure attainment of the 75 parts per billion (ppb) 8-hour ozone standard.²³

To ensure the SJVAB's continued attainment of the USEPA PM₁₀ standard, the SJVAPCD adopted the 2007 PM₁₀ Maintenance Plan in September 2007.²⁴ The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 PM_{2.5} Standards in November 2018 to address the USEPA 1997 annual PM_{2.5} standard of 15 µg/m³ and 24-hour PM_{2.5} standard of 65 µg/m³, the 2006 24-hour PM_{2.5} standard of 35 µg/m³, and the 2012 annual PM_{2.5} standard of 12 µg/m³.²⁵

CEQA requires that certain proposed projects be analyzed for consistency with the applicable air quality plan. For a project to be consistent with SJVAPCD air quality plans, the pollutants emitted from a project should not exceed the SJVAPCD emission thresholds or cause a significant impact on air quality. In addition, emission reductions achieved through implementation of offset requirements are a major component of the SJVAPCD air quality plans. As discussed below, the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. Therefore, the proposed project would not conflict with or obstruct implementation of SJVAPCD air quality plans.

Criteria Pollutant Analysis

The SJVAB is currently designated nonattainment for the federal and State standards for O₃ and PM_{2.5}. In addition, the SJVAB is in nonattainment for the PM₁₀ standard. The SJVAB's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of an ambient air quality standard. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

²³ SJVAPCD. 2016. *2016 Plan for the 2008 8-Hour Ozone Standard*. June 16. Website: www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm (accessed June 2024).

²⁴ SJVAPCD. 2007. *2007 PM₁₀ Maintenance Plan and Request for Redesignation*. Website: www.valleyair.org/Air_Quality_Plans/docs/Maintenance%20Plan10-25-07.pdf (accessed June 2024).

²⁵ SJVAPCD. 2018. *2018 Plan for the 1997, 2006, and 2012 PM_{2.5} Standards*. November 15. Website: <http://valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf> (accessed June 2024).

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The following analysis assesses the potential construction- and operation-related air quality impacts.

Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by excavation activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, reactive organic gases (ROGs), directly emitted PM_{2.5} or PM₁₀, and TACs (e.g., DPMs).

Project construction would include site preparation, grading, building construction, paving, and architectural coating activities. Construction-related effects on air quality from the proposed project would be greatest during the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM₁₀ emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM₁₀ emissions would depend on soil moisture, silt content of soil, wind speed, and amount of operating equipment. Larger dust particles would settle near the source, whereas fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The SJVAPCD has established Regulation VIII measures for reducing fugitive dust emissions (PM₁₀). With the implementation of Regulation VIII measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM₁₀ emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SO_x), NO_x, ROGs, and some soot particulate (PM_{2.5} and PM₁₀) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod and are summarized in Table C.

Table C: Short-Term Regional Construction Emissions

Construction Year	Annual Pollutant Emissions (Tons per Year)					
	ROG	NO _x	CO	SO _x	Total PM ₁₀	Total PM _{2.5}
2025	0.1	3.1	2.4	<0.1	0.3	0.2
2026	0.1	2.5	2.1	<0.1	0.1	0.1
2027	1.1	0.4	0.4	<0.1	<0.1	<0.1
Maximum Emissions	0.1	3.1	2.4	<0.1	0.3	0.2
SJVAPCD Threshold	10.0	10.0	100.0	27.0	15.0	15.0
Significant?	No	No	No	No	No	No

Source: Compiled by LSA (July 2024).

CO = carbon monoxide

NO_x = nitrogen oxides

PM_{2.5} = particulate matter less than 2.5 microns in size

PM₁₀ = particulate matter less than 10 microns in size

ROG = reactive organic gas

SJVAPCD = San Joaquin Valley Air Pollution Control District

SO_x = sulfur oxides

As shown in Table C, construction emissions associated with the proposed project would not exceed the SJVAPCD's thresholds for ROG, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. Implementation of Regulatory Compliance Measure (RCM) AIR-1 would ensure that the proposed project complies with Regulation VIII.

RCM AIR-1 Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM₁₀ Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.
- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.
- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.
- When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.
- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.)

- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.

Construction emissions associated with the proposed project would be less than significant with implementation of RCM AIR-1. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard.

Operational Air Quality Impacts. Long-term air pollutant emission impacts associated with the proposed project are those related to mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment).

Mobile source emissions include ROG and NO_x emissions that contribute to the formation of ozone. Additionally, PM₁₀ emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment and the use of consumer products.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. Table D provides the proposed project's estimated operational emissions.

Table D: Project Operational Emissions

Emission Type	Pollutant Emissions (Tons per Year)					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Mobile Sources	2.0	2.1	14.5	<0.1	3.6	1.0
Area Sources	2.6	0.1	3.4	<0.1	0.2	0.2
Energy Sources	<0.1	0.6	0.3	<0.1	<0.1	<0.1
Total Project Emissions	4.6	2.8	18.2	<0.1	3.8	1.2
SJVAPCD Threshold	10.0	10.0	100.0	27.0	15.0	15.0
Exceeds Threshold?	No	No	No	No	No	No

Source: Compiled by LSA (July 2024).
Note: Some values may not appear to add correctly due to rounding.

CO = carbon monoxide

NO_x = nitrogen oxides

PM_{2.5} = particulate matter less than 2.5 microns in size

PM₁₀ = particulate matter less than 10 microns in size

ROG = reactive organic gas

SJVAPCD = San Joaquin Valley Air Pollution Control District

SO_x = sulfur oxides

The results shown in Table D indicate the proposed project would not exceed the significance criteria for annual ROG, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} emissions. Therefore, operation of the

proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Long-Term Microscale (CO Hot Spot) Analysis. Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at Fresno station located at 3727 North First Street (i.e., the closest station to the project site monitoring CO) showed a highest recorded 1-hour concentration of 2.2 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.8 ppm (the State standard is 9 ppm) during the past 3 years. The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis. Reduced speeds and vehicular congestion at intersections result in increased CO emissions.

As described in the Project Description section, the proposed project is estimated to generate 1,688 average daily trips.²⁶ Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. The project site is surrounded primarily by agricultural uses. The closest sensitive receptors to the project site include rural residences located to the north and the east of the project site within 500 feet. The nearest worker receptor to the project site is located approximately 750 feet south of the project site. The nearest school receptor

²⁶ Precision Civil Engineering, Inc. 2024. *Trip Generation – Table I: Project Trip Generation*. July.

to the project site is located approximately 1,370 feet south of the project site, across West Whitesbridge Avenue.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. Table E, below, identifies the results of the analysis assuming the use of Tier 2 construction equipment as proposed by the project. Model snapshots of the sources are shown in Attachment C.

Table E: Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Residential Receptor Risk	9.53	0.007	0.000
Worker Receptor Risk	0.45	0.016	0.000
School Receptor	0.03	<0.001	0.000
SJVAPCD Significance Threshold	20.0 in one million	1.0	1.0
Significant?	No	No	No

Source: Compiled by LSA (July 2024).

SJVAPCD = San Joaquin Valley Air Pollution Control District

As shown in Table E, the maximum cancer risk for the residential MEI would be 9.53 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker MEI risk would be lower at 0.45 in one million and the school MEI would be 0.03 in one million, which would not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index (HI) would be 0.007 for the residential MEI, 0.016 for the worker MEI, and less than 0.001 for the school MEI, which is below the threshold of 1.0. In addition, the total acute HI would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations.

Furthermore, the proposed project would include the construction of a 179-unit, single-family residential development. As identified in Table D, project operational emissions of criteria pollutants would be below SJVAPCD significance thresholds; thus, they are not likely to have a significant impact on sensitive receptors. In addition, the proposed project would be required to implement District Rule 9510, Indirect Source Review (ISR). Implementation of Rule 9510 would reduce operational emissions of NO_x and PM₁₀ by 33.3 percent and 50 percent, respectively. Compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to gasoline vapors to a level that is not significant. Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs. Therefore, the project would not expose sensitive receptors to substantial levels of TACs.

Odors

The SJVAPCD addresses odor criteria within the GAMAQI. The district has not established a rule or standard regarding odor emissions, rather, the district has a nuisance rule: "Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact."

During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the project site and would readily dissipate. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Naturally Occurring Asbestos

The project is in Fresno County, which is among the counties found to have serpentine and ultramafic rock in their soils.²⁷ However, according to the California Geological Survey, no such rock has been identified in the project vicinity. When demolition is proposed during construction, the demolition of existing buildings may expose asbestos used in building materials. However, the proposed project would not involve any demolition or renovation as no current development exists on the project site. Therefore, the potential risk for naturally occurring asbestos during project construction is small and would not be significant.

Valley Fever

The project site is surrounded primarily by residential uses. The closest sensitive receptors to the project site include a single-family home located east of the project site within 105 feet. Except under high wind conditions, this distance is sufficient that particulate matter would settle prior to reaching the nearest sensitive receptor. In addition, crosswinds influenced by the adjacent roadways would help dissipate any particulate matter associated with the construction phase of the project. Therefore, any Valley fever spores suspended with the dust would not be anticipated to reach the sensitive receptors. However, during project construction, it is possible that workers could be exposed to Valley fever through fugitive dust. Dust control measures, consistent with SJVAPCD Regulation VIII, would reduce the exposure to the workers and sensitive receptors. Therefore, dust from the construction of the project is not anticipated to significantly add to the existing exposure of people to Valley fever.

Energy Use

This section discusses energy use resulting from implementation of the proposed project and evaluates whether the proposed project would result in the wasteful, inefficient, or unnecessary consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency.

Construction

The anticipated construction schedule assumes that the proposed project would be built in approximately 27 months. Construction-specific phases were assessed for their energy consumption under each construction sub-phase: grading, site preparation, building construction, paving, and architectural coating activities.

Construction would require energy for the manufacture and transportation of construction materials, preparation of the site for grading and building activities, and construction of the building.

²⁷ California Department of Conservation (DOC). n.d. California Geological Survey. Asbestos. Website: <https://www.conservation.ca.gov/cgs/minerals/mineral-hazards> (accessed June 2024).

All or most of this energy would be derived from nonrenewable resources. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. However, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. Energy (i.e., fuel) usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources.

Operation

Energy use associated with the proposed project would consist of natural gas, electricity, and vehicle fuel use associated with project operations.

Table F shows the estimated potential increased electricity, gasoline, and diesel demand associated with the proposed project. The electricity and natural gas rates are from the CalEEMod analysis, while the gasoline and diesel rates are based on the traffic analysis in conjunction with USDOT fuel efficiency data and using the USEPA's fuel economy estimates for 2020 and the California diesel fuel economy estimates for 2021.

Table F: Estimated Annual Energy Use of Proposed Project

	Electricity Use (kWh per year)	Natural Gas Use (kBtu per year)	Gasoline (gallons per year)	Diesel (gallons per year)
Proposed Project	1,673,038	69,653	173,093	132,007

Source: Compiled by LSA (July 2024).

kBTU = thousand British thermal units

kWh = kilowatt hours

As shown in Table F, the estimated increase in electricity demand associated with the operation of the proposed project would be 1,673,038 kWh per year. Total electricity consumption in Fresno County in 2022 was 8,384,408,687 kWh;²⁸ therefore, operation of the proposed project would negligibly increase the annual electricity consumption in Fresno County by approximately less than 0.1 percent.

As shown in Table F, the estimated increase in natural gas demand associated with the operation of the proposed project would be 69,653 therms per year. Total natural gas consumption in Fresno County in 2022 was 319,435,645 therms;²⁹ therefore, operation of the proposed project would negligibly increase the annual electricity consumption in Fresno County by approximately less than 0.1 percent.

In addition, the project would result in energy usage associated with motor vehicle gasoline to fuel project-related trips. As shown above in Table F, the proposed project would result in the consumption of 173,093 gallons of gasoline and 132,007 gallons of diesel per year. Based on fuel consumption obtained from EMFAC2021, approximately 343.3 million gallons of gasoline and approximately 155.8 million gallons of diesel will be consumed from vehicle trips in Fresno County in

²⁸ CEC. 2022b. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed June 2024).

²⁹ Ibid.

2027. Therefore, vehicle trips associated with the proposed project would increase the annual fuel use in Fresno County by approximately 0.1 percent for gasoline fuel usage and approximately 0.1 percent for diesel fuel usage. The proposed project would result in fuel usage that is a small fraction of current annual fuel use in Fresno County, and fuel consumption associated with vehicle trips generated by project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region. Therefore, gasoline demand generated by vehicle trips associated with the proposed project would be a minimal fraction of gasoline and diesel fuel consumption in California.

Furthermore, the proposed project would be constructed using energy efficient modern building materials and construction practices, and the proposed project also would use new modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed project would be consistent with typical usage rates for residential uses; however, energy consumption is largely a function of personal choice and the physical structure and layout of buildings.

PG&E is the private utility that would supply the proposed project's electricity. In 2021, a total of 50 percent of PG&E's delivered electricity came from renewable sources, including solar, wind, geothermal, small hydroelectric, and various forms of bioenergy.³⁰ PG&E reached California's 2020 renewable energy goal in 2017 and is positioned to meet the State's 60 percent by 2030 renewable energy mandate set forth in SB 100. In addition, PG&E plans to continue to provide reliable service to its customers and upgrade its distribution systems as necessary to meet future demand. As such, the proposed project would not result in a potential significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation.

Conflict with or Obstruction of a State or Local Plan for Renewable Energy or Energy Efficiency

The CEC recently adopted the 2023 Integrated Energy Policy Report.³¹ The 2023 Integrated Energy Policy Report provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The 2023 Integrated Energy Policy Report covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecasts, and the California Energy Demand Forecast.

As indicated above, energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the region's available energy sources, and energy impacts would be negligible at

³⁰ PG&E. 2021. *Exploring Clean Energy Solutions*. Website: https://www.pge.com/en_US/about-pge/environment/what-we-are-doing/clean-energy-solutions/clean-energy-solutions.page?WT.mc_id=Vanity_cleanenergy (accessed June 2024).

³¹ CEC. 2023. *2023 Integrated Energy Policy Report*. California Energy Commission. Docket Number: 23-IEPR-01.

the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the project's total impact on regional energy supplies would be minor, the proposed project would not conflict with or obstruct California's energy conservation plans as described in the CEC's 2023 Integrated Energy Policy Report. Therefore, the proposed project would not lead to new or substantially more severe energy impacts.

Greenhouse Gas Emission Impacts

Generation of Greenhouse Gas Emissions

The following sections describe the proposed project's construction- and operation-related GHG impacts and consistency with applicable GHG reduction plans.

Construction Greenhouse Gas Emissions. Construction activities associated with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO₂, CH₄, and N₂O. Furthermore, CH₄ is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

The SJVAPCD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are encouraged to quantify and disclose GHG emissions that would occur during construction. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed project would be approximately 820.0 metric tons of CO₂e (MT CO₂e) per year. Construction GHG emissions were amortized over the life of the project (assumed to be 30 years) and added to the operational emissions. When annualized over the life of the project, amortized construction emissions would be approximately 27.3 MT CO₂e per year.

Operational Greenhouse Gas Emissions. Long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions would include project-generated vehicle trips to and from the project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions would be generated at off-site utility providers as a result of increased electricity demand generated by the project. Waste source emissions generated by the proposed project include energy generated by land filling and other methods of disposal related to transporting and managing project generated waste. In addition, water source emissions associated with the proposed project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

Following guidance from the SJVAPCD, GHG emissions for operation of the project were calculated using CalEEMod. Based on the analysis results, summarized in Table G, the proposed project would result in emissions of approximately 5,192.6 MT CO₂e per year. These estimated emissions are provided for informational purposes, and the significance of the proposed project is further analyzed below.

Table G: Greenhouse Gas Emissions

Emission Type	Operational Emissions (metric tons per year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
Mobile Sources	3685.0	0.2	0.2	3,750.4
Area Sources	107.6	0.2	<0.1	111.8
Energy Sources	1,156.6	0.2	<0.1	1,161.9
Water Sources	20.6	0.9	<0.1	52.0
Waste Sources	25.4	2.5	0.0	88.7
Amortized Construction Emissions				27.3
Total Project Operational Emissions				5,192.1

Source: Compiled by LSA (July 2024).

CH₄ = methane

CO₂ = carbon dioxide

CO₂e = carbon dioxide equivalent

N₂O = nitrous oxide

As discussed, the SJVAPCD has not established a numeric threshold for GHG emissions. The significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds or consistency with a regional GHG reduction plan (such as a Climate Action Plan [CAP]). Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, the proposed project was analyzed for consistency with the 2022 Scoping Plan.

The 2022 Scoping Plan includes key project attributes that would reduce operational GHG emissions in its Appendix D, *Scoping Plan Appendix D Local Actions*.³² As discussed in this document, absent of consistency with an adequate, geographically specific GHG reduction plan such as a CEQA-qualified CAP, the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions. The project's consistency with key project attributes from the 2022 Scoping Plan that would be applicable to residential and mixed-use development is shown in Table H.

Residential and mixed-use projects that have all of the key project attributes as outlined in Table H would be considered to accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals as outlined in the 2022 Scoping Plan.

The proposed project would be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to building electrification. It is not yet known whether the proposed project would include the electric vehicle charging; therefore, implementation of Mitigation Measure GHG-1 would be required to ensure the proposed project would provide electric vehicle charging consistent with CALGreen and the 2022 Scoping Plan Key Attribute. With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with this design element. As noted in Table H, the proposed project is located on Prime Farmland and Farmland of Statewide Importance, as designated by the State Department of Natural Resources, and conversion of the proposed project site to non-agricultural uses would represent a potentially significant impact. However, as evaluated through the Kerman General Plan Update Environmental Impact Report and

³² CARB. 2022a. *2022 Scoping Plan Appendix D Local Actions*. November. Website: <https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf> (accessed May 2024).

related document titled Facts, Findings, and Statement of Overriding Considerations³³, the conversion of the proposed project site to non-agricultural uses would support the implementation of the planned future land uses included in the General Plan Update, with the City's goal to focus future developments in underdeveloped areas, prioritizing infill development and continued agricultural operations. General Plan Policy LU-4 requires the development of an Agricultural Mitigation Program to preserve equal acreage of similar prime agricultural land as that considered for rezoning in the General Plan Update, and with the implementation of Policy LU-4, the impacts of the proposed conversion of agricultural land was found to be less than significant. Therefore, with the implementation of Mitigation Measure GHG-1 and the implementation of the 2040 General Plan Policy LU-4, the proposed project would be consistent with the key project attributes included in the 2022 Scoping Plan to demonstrate that the project would accommodate growth in a manner consistent with State GHG reduction goals. As such, the proposed project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

Mitigation Measure GHG-1 Prior to the approval of building permits, in order to meet with all project attributes in the 2022 Scoping Plan greenhouse gas emission thresholds, the project applicant shall present documentation to the satisfaction of the City of Kerman Planning Department that each residential unit shall provide electric vehicle charging capabilities that meet the requirements of the latest version of the California Green Building Standards Code (CALGreen) Tier 2 Voluntary Standards as part of the final project designs.

Table H: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
Transportation Electrification	Provides EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the CALGreen Code at the time of project approval.	Consistent with Mitigation. CALGreen requires provision of infrastructure to accommodate Level 2 EV chargers for at least 10 percent of the total parking spaces and that at least half of the required EV chargers be equipped with J1772 connectors. Implementation of Mitigation Measure GHG-1 would be required to ensure the proposed project would provide electric vehicle charging. With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with this key project attribute.
VMT Reduction	Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).	Consistent. The project site is located in an area with a mix of land uses, including agricultural, residential and commercial uses that are presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). Therefore, the proposed project would be consistent with this key project attribute.
	Does not result in the loss or conversion of natural and working lands.	Consistent. The project site is located on land that is designated as Prime Farmland or Farmland of State

³³ City of Kerman. 2020. City of Kerman 2040 General Plan – Facts, Findings, and Statement of Overriding Considerations Regarding the Environmental Effects from the Environmental Impact Report. State Clearinghouse # 2019049018. May.

Table H: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
		Importance, and conversion of the proposed project site to non-agricultural uses would represent the loss of Prime Farmland. However, the Kerman 2040 General Plan Policy LU-4 requires the development of an Agricultural Mitigation Program and equal preservation of similar agricultural land. With the implementation of this policy, the loss of farmland that would occur under the rezoning of the proposed project site was found to have a less than significant impact. With the implementation of General Plan Policy LU-4 and equal preservation of farmland, the proposed project would be consistent with this key project attribute.
	Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), is in proximity to existing transit stops (within a half mile), or satisfies more detailed and stringent criteria specified in the region's SCS.	Consistent. The proposed project would result in less than 20 residential dwelling units per acre. However, the project site is located within 0.5 mile of a transit stop. The proposed project would also provide pedestrian infrastructure connecting to neighboring uses, and would allow for the future development of services and employment opportunities for the proposed project residents that generally serve to reduce VMT. As such, the project would promote initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation. As such, the proposed project would be consistent with this key project attribute.
	Reduces parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or sf); or providing residential parking supply at a ratio of less than one parking space per dwelling unit; or for multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.	Consistent. The proposed project would consist of 179 single-family residential units. The proposed project would not include reduced parking. However, the project site is located within 0.5 mile of a transit stop. The proposed project would also provide pedestrian infrastructure connecting to neighboring uses. As such, the project would promote initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation, and would facilitate the future development of services and employment opportunities consistent with the proposed change in land use designation. Although the proposed project would not have reduced parking, it would still be consistent with the intent of this measure for reducing VMT.
	At least 20 percent of units included are affordable to lower-income residents.	Consistent. The proposed project would not include affordable residential units. However, the proposed project would include residential units that would be in close proximity to commercial uses and would allow residents to live within a 0.5-mile radius distance to the commercial zones. Although the proposed project would not include affordable housing, the proposed project would provide needed single-family housing. Therefore, the proposed project would be consistent with this key project attribute.

Table H: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
	Results in no net loss of existing affordable units.	Consistent. The proposed project would not result in the removal of any existing residential units. As such, the proposed project would be consistent with this key project attribute.
Building Decarbonization	Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.	Consistent. The proposed project would be consistent with State building code requirements as Title 24 advances to implement the building decarbonization goals from the 2022 Scoping Plan. As such, the proposed project would be consistent with this key project attribute.

Source: Compiled by LSA (July 2024).

CALGreen Code = California Green Building Standards Code

EV = electric vehicle

GHGs = greenhouse gases

SCS = Sustainable Communities Strategy

sf = square foot/feet

VMT = vehicle miles traveled

Consistency with Greenhouse Gas Reduction Plans

The proposed project is further analyzed for consistency with the goals of the 2022 Scoping Plan and Fresno COG's RTP.

2022 Scoping Plan. The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan, EO B-30-15, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,³⁴ to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts (including new technologies and new policy) and

³⁴ CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf (accessed June 2024).

implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As demonstrated in the preceding section, the proposed project would be consistent with the project Key Attributes from the Scoping Plan. Therefore, the proposed project would support State goals aimed to conserve and reduce consumption of resources (e.g., energy and water). In addition, the proposed project would be required to comply with the latest Title 24 standards of the CCR, established by the CEC, regarding energy conservation and green building standards. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. The project would comply with the CALGreen Code, which includes a variety of different measures, including the reduction of wastewater and water use. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of Pavley II (LEV III) Advanced Clean Cars Program will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

Fresno COG's 2022 RTP/SCS. The Fresno COG RTP/SCS reflects transportation planning for Fresno County through 2046. The vision, goals, and policies in the 2022 RTP are intended to serve as the foundation for both short and long-term planning and guide implementation activities. The core vision in the 2022 RTP is to create a region of diverse, safe, resilient, and accessible transportation options that improve the quality of life for all residents by fostering sustainability, equity, a vibrant economy, clean air, and healthy communities. The 2022 RTP contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as forecast development that is generally consistent with regional-level general plan data. The actions in the 2022 RTP address all transportation modes (e.g., highways, local streets and roads, mass transportation, rail, bicycle, and aviation facilities and services) and consists of short and long-term activities that address regional transportation needs. While the actions are organized by the five key policy areas, many of them support multiple goals and policies. Some actions are intended to support the SCS and reduce GHG emissions directly, while others are focused on the RTP's broader goals. The 2022 RTP does not require that local General Plans, Specific Plans, or zoning be consistent with the 2022 RTP but provides incentives for consistency for governments and developers.

The proposed project would not interfere with the Fresno COG's ability to achieve the region's GHG reductions. Furthermore, the proposed project is not regionally significant per *State CEQA Guidelines* Section 15206, and it would not conflict with the 2022 RTP targets because those targets were established and are applicable on a regional level. The proposed project is consistent with

growth assumptions used in the 2022 RTP. . Therefore, it is anticipated that implementation of the proposed project would not interfere with Fresno COG's ability to implement the regional strategies outlined in the 2022 RTP.

The proposed project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP and would be consistent with applicable State plans and programs designed to reduce GHG emissions. Therefore, the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing GHG emissions.

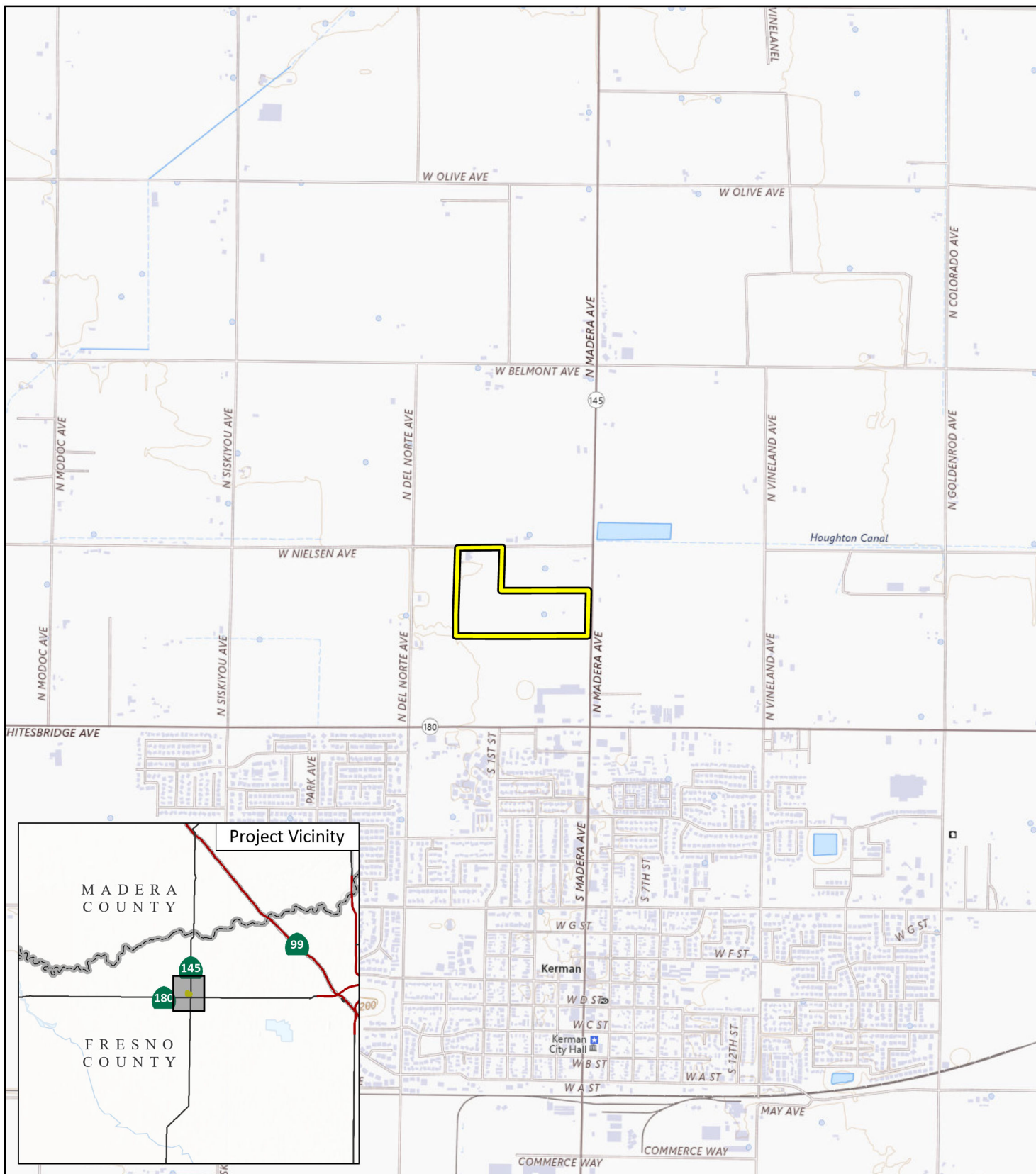
CONCLUSION

Based on the analysis presented above, with implementation of RCM AIR-1, construction and operational activities associated with the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition, the proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The proposed project would also not result in objectionable odors affecting a substantial number of people. With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with the project Key Attributes of the 2022 Scoping Plan and would not result in the emission of substantial GHG emissions. Additionally, the project would not conflict with the State's GHG emissions reductions objectives embodied in the 2022 Scoping Plan, EO B-30-15, SB 32, AB 1279, and AB 197. The proposed project would also not result in the wasteful, inefficient, or unnecessary consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency. Therefore, the proposed project's incremental contribution to cumulative GHG emissions would not be cumulatively considerable.

Attachments: A: Figures
B: CalEEMod Outputs
C: HRA Model Snapshots and Output

ATTACHMENT A

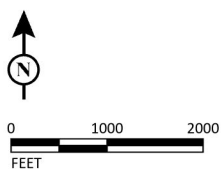
FIGURES



 Project Location

FIGURE 1

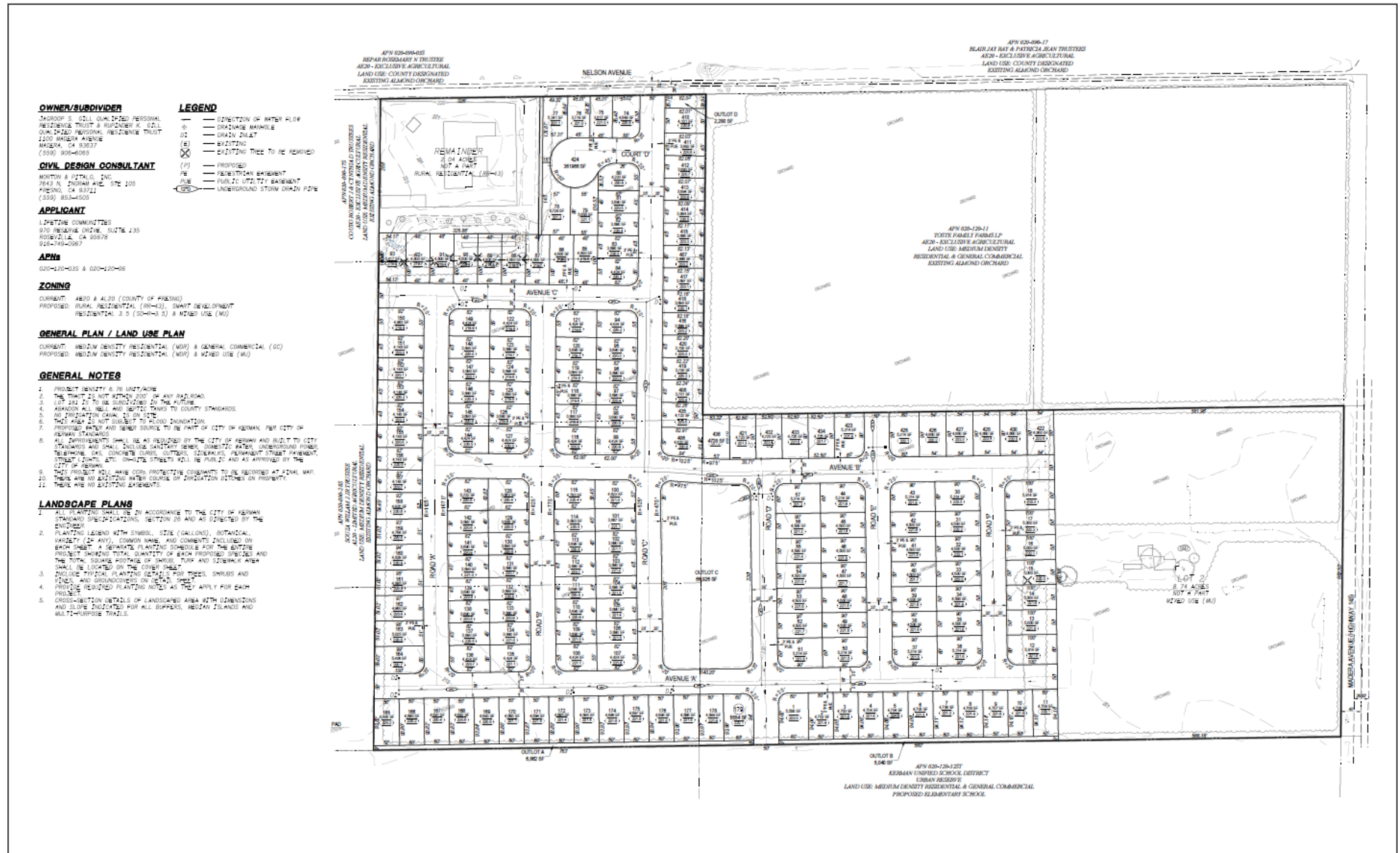
LSA



The Orchard at Gill Estates Project
Project Location

SOURCE: USGS The National Map (2019)

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SOURCE: Morton and Pitalo, Inc.

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FIGURE 2

The Orchard at Gill Estates Project
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ATTACHMENT B

CALEEMOD OUTPUTS

The Orchard at Gill Estates Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Orchard at Gill Estates Project
Construction Start Date	1/6/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.74047073608564, -120.06625190357992
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2524
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	179	Dwelling Unit	21.4	349,050	11,902	—	573	—

City Park	1.58	Acre	1.58	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	5.09	Acre	5.09	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	64.3	48.9	36.1	0.06	1.36	3.70	5.06	1.23	1.45	2.68	—	6,720	6,720	0.27	0.07	6,745
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	64.3	48.9	36.0	0.06	1.36	7.76	8.88	1.23	3.96	4.98	—	6,706	6,706	0.27	0.07	6,731
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.30	16.7	13.2	0.02	0.53	1.06	1.59	0.49	0.44	0.93	—	2,442	2,442	0.10	0.05	2,457
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.15	3.06	2.41	< 0.005	0.10	0.19	0.29	0.09	0.08	0.17	—	404	404	0.02	0.01	407

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.42	48.9	36.1	0.06	1.36	3.70	5.06	1.23	1.45	2.68	—	6,720	6,720	0.27	0.07	6,745
2026	0.89	19.4	16.7	0.03	0.69	0.41	1.11	0.64	0.10	0.74	—	3,027	3,027	0.11	0.07	3,053
2027	64.3	1.11	1.37	< 0.005	0.07	0.07	0.14	0.06	0.02	0.08	—	208	208	0.01	< 0.005	210
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.41	48.9	36.0	0.06	1.36	7.76	8.88	1.23	3.96	4.98	—	6,706	6,706	0.27	0.07	6,731
2026	0.86	19.5	16.3	0.03	0.69	0.41	1.11	0.64	0.10	0.74	—	2,984	2,984	0.12	0.07	3,009
2027	64.3	19.4	16.1	0.03	0.69	0.41	1.11	0.64	0.10	0.74	—	2,972	2,972	0.12	0.07	2,996
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.62	16.7	13.2	0.02	0.53	1.06	1.59	0.49	0.44	0.93	—	2,442	2,442	0.10	0.04	2,457
2026	0.62	13.9	11.6	0.02	0.49	0.29	0.79	0.46	0.07	0.53	—	2,140	2,140	0.08	0.05	2,158
2027	6.30	2.45	2.06	< 0.005	0.10	0.04	0.14	0.09	0.01	0.10	—	335	335	0.01	0.01	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.11	3.06	2.41	< 0.005	0.10	0.19	0.29	0.09	0.08	0.17	—	404	404	0.02	0.01	407
2026	0.11	2.53	2.12	< 0.005	0.09	0.05	0.14	0.08	0.01	0.10	—	354	354	0.01	0.01	357
2027	1.15	0.45	0.38	< 0.005	0.02	0.01	0.02	0.02	< 0.005	0.02	—	55.5	55.5	< 0.005	< 0.005	55.9

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.1	7.29	57.5	0.13	0.23	9.72	9.96	0.23	2.47	2.69	99.6	15,068	15,167	10.8	0.62	15,661

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.6	7.96	40.5	0.12	0.23	9.72	9.95	0.22	2.47	2.69	99.6	14,051	14,151	10.9	0.66	14,622
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.1	7.65	45.8	0.12	0.23	9.59	9.82	0.22	2.43	2.66	99.6	14,344	14,444	10.8	0.64	14,924
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.57	1.40	8.35	0.02	0.04	1.75	1.79	0.04	0.44	0.48	16.5	2,375	2,391	1.79	0.11	2,471

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.02	5.44	46.6	0.12	0.09	9.72	9.81	0.08	2.47	2.55	—	11,857	11,857	0.44	0.56	12,073
Area	8.99	0.10	10.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	27.2	27.2	< 0.005	< 0.005	27.2
Energy	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	3,167	3,167	0.35	0.02	3,183
Water	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
Waste	—	—	—	—	—	—	—	—	—	—	85.8	0.00	85.8	8.58	0.00	300
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
Total	15.1	7.29	57.5	0.13	0.23	9.72	9.96	0.23	2.47	2.69	99.6	15,068	15,167	10.8	0.62	15,661
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.37	6.20	39.8	0.11	0.09	9.72	9.81	0.08	2.47	2.55	—	10,868	10,868	0.51	0.60	11,061
Area	8.10	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
Energy	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	3,167	3,167	0.35	0.02	3,183

Water	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
Waste	—	—	—	—	—	—	—	—	—	—	85.8	0.00	85.8	8.58	0.00	300
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
Total	13.6	7.96	40.5	0.12	0.23	9.72	9.95	0.22	2.47	2.69	99.6	14,051	14,151	10.9	0.66	14,622
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.45	5.84	40.0	0.11	0.09	9.59	9.68	0.08	2.43	2.51	—	11,148	11,148	0.47	0.58	11,349
Area	8.54	0.05	5.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	13.4	13.4	< 0.005	< 0.005	13.4
Energy	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	3,167	3,167	0.35	0.02	3,183
Water	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
Waste	—	—	—	—	—	—	—	—	—	—	85.8	0.00	85.8	8.58	0.00	300
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
Total	14.1	7.65	45.8	0.12	0.23	9.59	9.82	0.22	2.43	2.66	99.6	14,344	14,444	10.8	0.64	14,924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.99	1.07	7.30	0.02	0.02	1.75	1.77	0.01	0.44	0.46	—	1,846	1,846	0.08	0.10	1,879
Area	1.56	0.01	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.22	2.22	< 0.005	< 0.005	2.22
Energy	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	524	524	0.06	< 0.005	527
Water	—	—	—	—	—	—	—	—	—	—	2.29	2.67	4.96	0.24	0.01	12.5
Waste	—	—	—	—	—	—	—	—	—	—	14.2	0.00	14.2	1.42	0.00	49.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41
Total	2.57	1.40	8.35	0.02	0.04	1.75	1.79	0.04	0.44	0.48	16.5	2,375	2,391	1.79	0.11	2,471

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,295	5,295	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.18	1.55	< 0.005	0.06	—	0.06	0.06	—	0.06	—	290	290	0.01	< 0.005	291
Dust From Material Movement	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.0	48.0	< 0.005	< 0.005	48.2
Dust From Material Movement	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.2	94.2	< 0.005	< 0.005	95.6
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.34	5.34	< 0.005	< 0.005	5.43
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	0.90
Vendor	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
Hauling	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

3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	6.02	4.36	0.01	0.17	—	0.17	0.15	—	0.15	—	814	814	0.03	0.01	816
Dust From Material Movement	—	—	—	—	—	0.44	0.44	—	0.18	0.18	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.10	0.80	< 0.005	0.03	—	0.03	0.03	—	0.03	—	135	135	0.01	< 0.005	135
Dust From Material Movement	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.05	0.74	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	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

Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.60	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	108	108	< 0.005	0.01	109
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	14.0
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	2.31
Vendor	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
Hauling	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

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	8.27	6.27	0.01	0.30	—	0.30	0.28	—	0.28	—	1,051	1,051	0.04	0.01	1,055
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.51	1.14	< 0.005	0.06	—	0.06	0.05	—	0.05	—	174	174	0.01	< 0.005	175
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.15	2.40	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	391	391	0.01	0.02	397
Vendor	0.01	0.41	0.18	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	252	252	0.01	0.04	264
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.18	1.94	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	347	347	0.02	0.02	352
Vendor	0.01	0.43	0.19	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	252	252	0.01	0.04	263
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.07	0.87	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	157	157	0.01	0.01	160
Vendor	0.01	0.18	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	110	110	< 0.005	0.02	115
Hauling	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	26.5
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	19.1
Hauling	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

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	—	0.49	0.46	—	0.46	—	1,712	1,712	0.07	0.01	1,718
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	—	0.09	0.08	—	0.08	—	283	283	0.01	< 0.005	284

Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.13	2.21	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	383	383	0.01	0.02	389
Vendor	0.01	0.39	0.18	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	247	247	0.01	0.04	259
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.16	1.79	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	340	340	0.01	0.02	345
Vendor	0.01	0.42	0.18	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	247	247	0.01	0.04	259
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.10	1.30	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	255
Vendor	0.01	0.29	0.13	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	177	177	< 0.005	0.03	185
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.6	41.6	< 0.005	< 0.005	42.3
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.2	29.2	< 0.005	< 0.005	30.6
Hauling	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

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	1.03	0.78	< 0.005	0.04	—	0.04	0.04	—	0.04	—	131	131	0.01	< 0.005	132
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	21.7	21.7	< 0.005	< 0.005	21.8
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.15	1.65	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	333	333	0.01	0.02	338
Vendor	0.01	0.40	0.18	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	242	242	0.01	0.04	253
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.9	18.9	< 0.005	< 0.005	19.2

Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	13.9
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.13	3.13	< 0.005	< 0.005	3.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.19	2.19	< 0.005	< 0.005	2.29
Hauling	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

3.11. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,516
Paving	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.28	1.02	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	145
Paving	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1

Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.39	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	77.4	77.4	< 0.005	< 0.005	78.7
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.69	7.69	< 0.005	< 0.005	7.82
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	1.29
Vendor	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
Hauling	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

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	64.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	64.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	12.8	12.8	< 0.005	< 0.005	12.8
Architectural Coatings	6.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	2.13
Architectural Coatings	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.41	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	74.9	74.9	< 0.005	< 0.005	76.1
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.5	66.5	< 0.005	< 0.005	67.6
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.61	6.61	< 0.005	< 0.005	6.72
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	1.11
Vendor	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
Hauling	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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	6.02	5.44	46.6	0.12	0.09	9.72	9.81	0.08	2.47	2.55	—	11,857	11,857	0.44	0.56	12,073
City Park	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
Other Asphalt Surfaces	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
Total	6.02	5.44	46.6	0.12	0.09	9.72	9.81	0.08	2.47	2.55	—	11,857	11,857	0.44	0.56	12,073
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	5.37	6.20	39.8	0.11	0.09	9.72	9.81	0.08	2.47	2.55	—	10,868	10,868	0.51	0.60	11,061
City Park	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
Other Asphalt Surfaces	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
Total	5.37	6.20	39.8	0.11	0.09	9.72	9.81	0.08	2.47	2.55	—	10,868	10,868	0.51	0.60	11,061
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.99	1.07	7.30	0.02	0.02	1.75	1.77	0.01	0.44	0.46	—	1,846	1,846	0.08	0.10	1,879
City Park	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
Other Asphalt Surfaces	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
Total	0.99	1.07	7.30	0.02	0.02	1.75	1.77	0.01	0.44	0.46	—	1,846	1,846	0.08	0.10	1,879

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	935	935	0.15	0.02	944
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	935	935	0.15	0.02	944
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	935	935	0.15	0.02	944
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	935	935	0.15	0.02	944
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	155	155	0.03	< 0.005	156
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	155	155	0.03	< 0.005	156

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	2,232	2,232	0.20	< 0.005	2,238
City Park	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
Other Asphalt Surfaces	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
Total	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	2,232	2,232	0.20	< 0.005	2,238
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	2,232	2,232	0.20	< 0.005	2,238
City Park	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
Other Asphalt Surfaces	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
Total	0.10	1.76	0.75	0.01	0.14	—	0.14	0.14	—	0.14	—	2,232	2,232	0.20	< 0.005	2,238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	370	370	0.03	< 0.005	371
City Park	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
Other Asphalt Surfaces	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
Total	0.02	0.32	0.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	370	370	0.03	< 0.005	371

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	7.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.89	0.10	10.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2	27.2	< 0.005	< 0.005	27.2
Total	8.99	0.10	10.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	27.2	27.2	< 0.005	< 0.005	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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
Consumer Products	7.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.10	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	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

Consumer	1.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.01	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.22	2.22	< 0.005	< 0.005	2.22
Total	1.56	0.01	0.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.22	2.22	< 0.005	< 0.005	2.22

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	13.8	16.1	30.0	1.42	0.03	75.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2.29	2.67	4.96	0.24	0.01	12.5
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	2.29	2.67	4.96	0.24	0.01	12.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	85.7	0.00	85.7	8.57	0.00	300
City Park	—	—	—	—	—	—	—	—	—	—	0.07	0.00	0.07	0.01	0.00	0.26
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	85.8	0.00	85.8	8.58	0.00	300
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	85.7	0.00	85.7	8.57	0.00	300
City Park	—	—	—	—	—	—	—	—	—	—	0.07	0.00	0.07	0.01	0.00	0.26
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	85.8	0.00	85.8	8.58	0.00	300
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	14.2	0.00	14.2	1.42	0.00	49.7
City Park	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	0.04
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.2	0.00	14.2	1.42	0.00	49.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequeste	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/18/2025	3/17/2025	5.00	20.0	—
Grading	Grading	3/19/2025	5/21/2025	5.00	45.0	—
Building Construction	Building Construction	5/22/2025	1/28/2027	5.00	440	—
Paving	Paving	1/29/2027	3/19/2027	5.00	35.0	—
Architectural Coating	Architectural Coating	3/20/2027	5/8/2027	5.00	35.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48

Grading	Tractors/Loaders/Back hoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	—	4.00	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	—	4.00	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	64.4	7.70	LDA,LDT1,LDT2

Building Construction	Vendor	19.1	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	—	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	12.9	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	706,826	235,609	0.00	0.00	13,303

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	30.0	0.00	—
Grading	0.00	0.00	135	0.00	—
Paving	0.00	0.00	0.00	0.00	7.06

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.97	0%
City Park	0.00	0%
Other Asphalt Surfaces	5.09	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	1,688	1,688	1,688	616,109	13,754	13,754	13,754	5,020,190
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
706826.25	235,609	0.00	0.00	13,303

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	1,673,038	204	0.0330	0.0040	6,965,305
City Park	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	7,212,984	199,688
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	159	—

City Park	0.14	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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8. User Changes to Default Data

Screen	Justification
Land Use	Project would develop 179 single family residences, including 11,902 sf (0.27 acres) of public landscape and 69,120 sf (1.58 acres) of open space on a 28.35 acre project site. Approximately 5.09 acres were assumed to be paved area for internal roadways.
Construction: Construction Phases	No demolition. Assume default construction schedule.

Construction: Off-Road Equipment	Default construction equipment with Tier 2
Operations: Vehicle Data	Project would generate approximately 1,688 ADT Trip rate = 1,688 ADT / 179 DU = 9.43
Operations: Hearths	Assume no wood burning hearths

The Orchard at Gill Estates - Mixed Use Custom Report

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4.4.1. Unmitigated

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5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	The Orchard at Gill Estates - Mixed Use
Construction Start Date	1/6/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.73966855186279, -120.06206767406059
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2524
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	150	Dwelling Unit	8.40	159,000	0.00	—	480	—

Strip Mall	13.5	1000sqft	0.31	13,500	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	102	12.0	20.8	0.03	0.44	1.23	1.67	0.41	0.30	0.70	—	4,277	4,277	0.15	0.17	4,339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	102	31.7	30.7	0.05	1.37	7.76	9.13	1.26	3.96	5.22	—	5,390	5,390	0.22	0.17	5,409
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.76	9.78	13.9	0.02	0.38	1.06	1.43	0.35	0.35	0.69	—	2,856	2,856	0.11	0.10	2,891
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	1.78	2.54	< 0.005	0.07	0.19	0.26	0.06	0.06	0.13	—	473	473	0.02	0.02	479

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	1.99	12.0	20.8	0.03	0.44	1.23	1.67	0.41	0.30	0.70	—	4,277	4,277	0.15	0.17	4,339
2026	102	0.94	2.46	< 0.005	0.02	0.21	0.23	0.02	0.05	0.07	—	363	363	0.01	0.01	368
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.38	31.7	30.7	0.05	1.37	7.76	9.13	1.26	3.96	5.22	—	5,390	5,390	0.22	0.17	5,409
2026	102	11.5	18.8	0.03	0.39	1.23	1.62	0.36	0.30	0.65	—	4,111	4,111	0.16	0.17	4,167
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.39	9.78	13.9	0.02	0.38	1.06	1.43	0.35	0.35	0.69	—	2,856	2,856	0.11	0.10	2,891
2026	5.76	1.25	2.02	< 0.005	0.05	0.10	0.15	0.04	0.02	0.07	—	398	398	0.01	0.01	403
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.25	1.78	2.54	< 0.005	0.07	0.19	0.26	0.06	0.06	0.13	—	473	473	0.02	0.02	479
2026	1.05	0.23	0.37	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01	—	65.9	65.9	< 0.005	< 0.005	66.7

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	9.84	101	0.27	5.95	10.0	16.0	5.74	2.55	8.28	1,057	18,248	19,304	16.6	0.75	19,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.7	10.6	84.9	0.26	5.95	10.0	16.0	5.74	2.55	8.28	1,057	17,178	18,235	16.7	0.79	18,890
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.8	8.63	58.6	0.16	1.51	9.90	11.4	1.46	2.51	3.97	324	16,065	16,389	13.2	0.76	16,967
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	2.16	1.58	10.7	0.03	0.28	1.81	2.08	0.27	0.46	0.73	53.6	2,660	2,713	2.19	0.13	2,809
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2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.72	6.00	51.5	0.12	0.09	10.0	10.1	0.09	2.55	2.63	—	12,528	12,528	0.49	0.60	12,760
Area	9.51	2.17	49.0	0.14	5.73	—	5.73	5.52	—	5.52	946	1,857	2,803	4.46	< 0.005	2,915
Energy	0.10	1.67	0.94	0.01	0.13	—	0.13	0.13	—	0.13	—	3,813	3,813	0.46	0.04	3,836
Water	—	—	—	—	—	—	—	—	—	—	43.8	50.3	94.0	4.50	0.11	239
Waste	—	—	—	—	—	—	—	—	—	—	67.4	0.00	67.4	6.74	0.00	236
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22
Total	16.3	9.84	101	0.27	5.95	10.0	16.0	5.74	2.55	8.28	1,057	18,248	19,304	16.6	0.75	19,987
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.96	6.86	44.1	0.11	0.09	10.0	10.1	0.09	2.55	2.63	—	11,483	11,483	0.56	0.64	11,689
Area	8.66	2.08	39.9	0.14	5.72	—	5.72	5.51	—	5.51	946	1,832	2,777	4.46	< 0.005	2,890
Energy	0.10	1.67	0.94	0.01	0.13	—	0.13	0.13	—	0.13	—	3,813	3,813	0.46	0.04	3,836
Water	—	—	—	—	—	—	—	—	—	—	43.8	50.3	94.0	4.50	0.11	239
Waste	—	—	—	—	—	—	—	—	—	—	67.4	0.00	67.4	6.74	0.00	236
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22
Total	14.7	10.6	84.9	0.26	5.95	10.0	16.0	5.74	2.55	8.28	1,057	17,178	18,235	16.7	0.79	18,890
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.06	6.46	44.3	0.12	0.09	9.90	10.00	0.09	2.51	2.60	—	11,778	11,778	0.52	0.62	11,994
Area	5.66	0.51	13.4	0.03	1.29	—	1.29	1.24	—	1.24	212	424	636	1.00	< 0.005	662
Energy	0.10	1.67	0.94	0.01	0.13	—	0.13	0.13	—	0.13	—	3,813	3,813	0.46	0.04	3,836

Water	—	—	—	—	—	—	—	—	—	—	43.8	50.3	94.0	4.50	0.11	239
Waste	—	—	—	—	—	—	—	—	—	—	67.4	0.00	67.4	6.74	0.00	236
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22
Total	11.8	8.63	58.6	0.16	1.51	9.90	11.4	1.46	2.51	3.97	324	16,065	16,389	13.2	0.76	16,967
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	1.18	8.08	0.02	0.02	1.81	1.82	0.02	0.46	0.47	—	1,950	1,950	0.09	0.10	1,986
Area	1.03	0.09	2.45	0.01	0.24	—	0.24	0.23	—	0.23	35.2	70.2	105	0.17	< 0.005	110
Energy	0.02	0.30	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	631	631	0.08	0.01	635
Water	—	—	—	—	—	—	—	—	—	—	7.25	8.32	15.6	0.74	0.02	39.5
Waste	—	—	—	—	—	—	—	—	—	—	11.2	0.00	11.2	1.12	0.00	39.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20
Total	2.16	1.58	10.7	0.03	0.28	1.81	2.08	0.27	0.46	0.73	53.6	2,660	2,713	2.19	0.13	2,809

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—
Onsite truck	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.22	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	188	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.22	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	80.7	80.7	< 0.005	< 0.005	82.0
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	4.66
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	0.77
Vendor	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

Hauling	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
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3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.87	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	145	145	0.01	< 0.005	146
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1

Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.2	94.2	< 0.005	< 0.005	95.6
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.67	2.67	< 0.005	< 0.005	2.72
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	0.45
Vendor	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
Hauling	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

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	2,970
Dust From Material Movement	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.89	0.98	< 0.005	0.04	—	0.04	0.04	—	0.04	—	162	162	0.01	< 0.005	163
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	26.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	80.7	80.7	< 0.005	< 0.005	82.0
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	4.66
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	0.77
Vendor	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
Hauling	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

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	2,406

Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	5.87	7.32	0.01	0.24	—	0.24	0.22	—	0.22	—	1,347	1,347	0.05	0.01	1,351
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.07	1.34	< 0.005	0.04	—	0.04	0.04	—	0.04	—	223	223	0.01	< 0.005	224
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.83	0.44	7.21	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,174	1,174	0.03	0.05	1,194
Vendor	0.04	1.14	0.50	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	705	705	0.02	0.10	739
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.53	5.84	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,042	1,042	0.05	0.05	1,058
Vendor	0.03	1.21	0.53	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	707	707	0.02	0.10	738
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.27	3.34	0.00	0.00	0.58	0.58	0.00	0.14	0.14	—	606	606	0.02	0.03	616
Vendor	0.02	0.66	0.29	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	396	396	0.01	0.06	415
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.05	0.61	0.00	0.00	0.11	0.11	0.00	0.02	0.02	—	100	100	< 0.005	< 0.005	102
Vendor	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.6	65.6	< 0.005	0.01	68.6
Hauling	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

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.69	0.91	< 0.005	0.03	—	0.03	0.02	—	0.02	—	169	169	0.01	< 0.005	169
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.0	28.0	< 0.005	< 0.005	28.1
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.49	5.37	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,021	1,021	0.04	0.05	1,037
Vendor	0.03	1.17	0.51	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	693	693	0.02	0.10	725
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.38	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	74.5	74.5	< 0.005	< 0.005	75.7
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.8	48.8	< 0.005	0.01	51.1
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	12.5
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	8.45
Hauling	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

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.39	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	83.1
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	13.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.42	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	79.1	79.1	< 0.005	< 0.005	80.3
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.49	4.49	< 0.005	< 0.005	4.56
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.74	0.74	< 0.005	< 0.005	0.76
Vendor	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
Hauling	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

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	134
Architect ural Coatings	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	134
Architect ural Coatings	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	7.34
Architect ural Coatings	5.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	1.22
Architectural Coatings	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.08	1.33	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	230	230	0.01	0.01	234
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.10	1.07	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	204	204	0.01	0.01	207
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	11.8
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	1.95
Vendor	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
Hauling	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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	3.89	3.48	29.9	0.07	0.05	5.83	5.88	0.05	1.48	1.53	—	7,270	7,270	0.28	0.35	7,405
Strip Mall	2.83	2.52	21.6	0.05	0.04	4.21	4.25	0.04	1.07	1.11	—	5,257	5,257	0.21	0.25	5,355
Total	6.72	6.00	51.5	0.12	0.09	10.0	10.1	0.09	2.55	2.63	—	12,528	12,528	0.49	0.60	12,760
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	3.46	3.98	25.6	0.07	0.05	5.83	5.88	0.05	1.48	1.53	—	6,664	6,664	0.33	0.37	6,783
Strip Mall	2.51	2.88	18.5	0.05	0.04	4.21	4.25	0.04	1.07	1.11	—	4,819	4,819	0.24	0.27	4,905
Total	5.96	6.86	44.1	0.11	0.09	10.0	10.1	0.09	2.55	2.63	—	11,483	11,483	0.56	0.64	11,689
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.64	0.68	4.68	0.01	0.01	1.05	1.06	0.01	0.27	0.28	—	1,132	1,132	0.05	0.06	1,152
Strip Mall	0.47	0.49	3.39	0.01	0.01	0.76	0.77	0.01	0.19	0.20	—	818	818	0.04	0.04	833
Total	1.11	1.18	8.08	0.02	0.02	1.81	1.82	0.02	0.46	0.47	—	1,950	1,950	0.09	0.10	1,986

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	478	478	0.08	0.01	483
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,261	1,261	0.20	0.02	1,273
Total	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.28	0.03	1,757
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	478	478	0.08	0.01	483
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1,261	1,261	0.20	0.02	1,273
Total	—	—	—	—	—	—	—	—	—	—	—	1,739	1,739	0.28	0.03	1,757
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	79.2	79.2	0.01	< 0.005	80.0
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	209	209	0.03	< 0.005	211
Total	—	—	—	—	—	—	—	—	—	—	—	288	288	0.05	0.01	291

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.06	1.11	0.47	0.01	0.09	—	0.09	0.09	—	0.09	—	1,403	1,403	0.12	< 0.005	1,407

Strip Mall	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	—	671	671	0.06	< 0.005	672
Total	0.10	1.67	0.94	0.01	0.13	—	0.13	0.13	—	0.13	—	2,073	2,073	0.18	< 0.005	2,079
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartmen ts Low Rise	0.06	1.11	0.47	0.01	0.09	—	0.09	0.09	—	0.09	—	1,403	1,403	0.12	< 0.005	1,407
Strip Mall	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	—	671	671	0.06	< 0.005	672
Total	0.10	1.67	0.94	0.01	0.13	—	0.13	0.13	—	0.13	—	2,073	2,073	0.18	< 0.005	2,079
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartmen ts Low Rise	0.01	0.20	0.09	< 0.005	0.02	—	0.02	0.02	—	0.02	—	232	232	0.02	< 0.005	233
Strip Mall	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	0.01	< 0.005	111
Total	0.02	0.30	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	343	343	0.03	< 0.005	344

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.41	2.08	39.9	0.14	5.72	—	5.72	5.51	—	5.51	946	1,832	2,777	4.46	< 0.005	2,890
Consumer Products	3.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.85	0.09	9.09	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	25.2	25.2	< 0.005	< 0.005	25.3
Total	9.51	2.17	49.0	0.14	5.73	—	5.73	5.52	—	5.52	946	1,857	2,803	4.46	< 0.005	2,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.41	2.08	39.9	0.14	5.72	—	5.72	5.51	—	5.51	946	1,832	2,777	4.46	< 0.005	2,890
Consumer Products	3.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.66	2.08	39.9	0.14	5.72	—	5.72	5.51	—	5.51	946	1,832	2,777	4.46	< 0.005	2,890
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.18	0.09	1.64	0.01	0.23	—	0.23	0.23	—	0.23	35.2	68.1	103	0.17	< 0.005	107
Consumer Products	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.05	2.05	< 0.005	< 0.005	2.06
Total	1.03	0.09	2.45	0.01	0.24	—	0.24	0.23	—	0.23	35.2	70.2	105	0.17	< 0.005	110

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
----------	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	13.4	15.4	28.9	1.38	0.03	73.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	30.3	34.8	65.2	3.12	0.07	165
Total	—	—	—	—	—	—	—	—	—	—	43.8	50.3	94.0	4.50	0.11	239
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	13.4	15.4	28.9	1.38	0.03	73.2
Strip Mall	—	—	—	—	—	—	—	—	—	—	30.3	34.8	65.2	3.12	0.07	165
Total	—	—	—	—	—	—	—	—	—	—	43.8	50.3	94.0	4.50	0.11	239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	2.22	2.56	4.78	0.23	0.01	12.1
Strip Mall	—	—	—	—	—	—	—	—	—	—	5.02	5.77	10.8	0.52	0.01	27.4
Total	—	—	—	—	—	—	—	—	—	—	7.25	8.32	15.6	0.74	0.02	39.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	59.8	0.00	59.8	5.97	0.00	209

Strip Mall	—	—	—	—	—	—	—	—	—	—	7.64	0.00	7.64	0.76	0.00	26.7
Total	—	—	—	—	—	—	—	—	—	—	67.4	0.00	67.4	6.74	0.00	236
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartmen ts Low Rise	—	—	—	—	—	—	—	—	—	—	59.8	0.00	59.8	5.97	0.00	209
Strip Mall	—	—	—	—	—	—	—	—	—	—	7.64	0.00	7.64	0.76	0.00	26.7
Total	—	—	—	—	—	—	—	—	—	—	67.4	0.00	67.4	6.74	0.00	236
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartmen ts Low Rise	—	—	—	—	—	—	—	—	—	—	9.90	0.00	9.90	0.99	0.00	34.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.26	0.00	1.26	0.13	0.00	4.43
Total	—	—	—	—	—	—	—	—	—	—	11.2	0.00	11.2	1.12	0.00	39.1

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartmen ts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.14
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.14
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartment Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/6/2025	2/3/2025	5.00	20.0	—
Site Preparation	Site Preparation	2/4/2025	2/18/2025	5.00	10.0	—
Grading	Grading	2/19/2025	3/19/2025	5.00	20.0	—
Building Construction	Building Construction	3/20/2025	2/5/2026	5.00	230	—
Paving	Paving	2/6/2026	3/6/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	3/7/2026	4/4/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	7.70	LDA,LDT1,LDT2
Demolition	Vendor	—	4.00	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	—	4.00	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT

Grading	—	—	—	—
Grading	Worker	15.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	—	4.00	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	194	7.70	LDA,LDT1,LDT2
Building Construction	Vendor	53.6	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	—	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	38.7	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	338,256	112,752	320,511	106,837	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	0.00	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Low Rise	—	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
------	--------------	-----	-----	-----

2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	1,011	1,011	1,011	369,015	8,238	8,238	8,238	3,006,814
Strip Mall	735	735	735	268,302	5,956	5,956	5,956	2,174,015

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	87
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	87
Conventional Wood Stoves	0
Catalytic Wood Stoves	9
Non-Catalytic Wood Stoves	9
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
338256	112,752	320,511	106,837	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Low Rise	855,870	204	0.0330	0.0040	4,377,269
Strip Mall	2,256,415	204	0.0330	0.0040	2,092,369

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	7,011,504	0.00
Strip Mall	15,827,372	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	111	—
Strip Mall	14.2	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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8. User Changes to Default Data

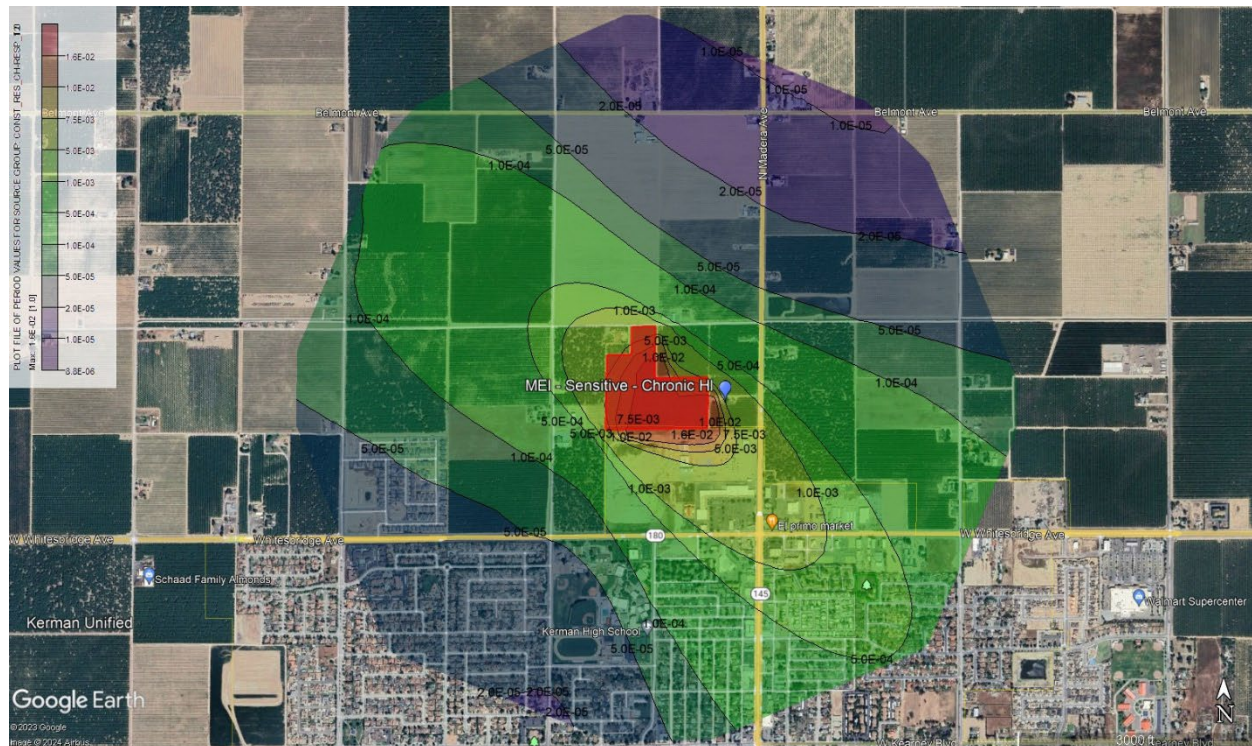
Screen	Justification
Land Use	maximum building for mixed use site under an 8.74-acre project site. land uses are consistent with the project's trip generation table.
Operations: Vehicle Data	based on the project's trip generation, which identifies 1,011 ADT for the multi-family housing and 735 ADT for the strip mall

ATTACHMENT C

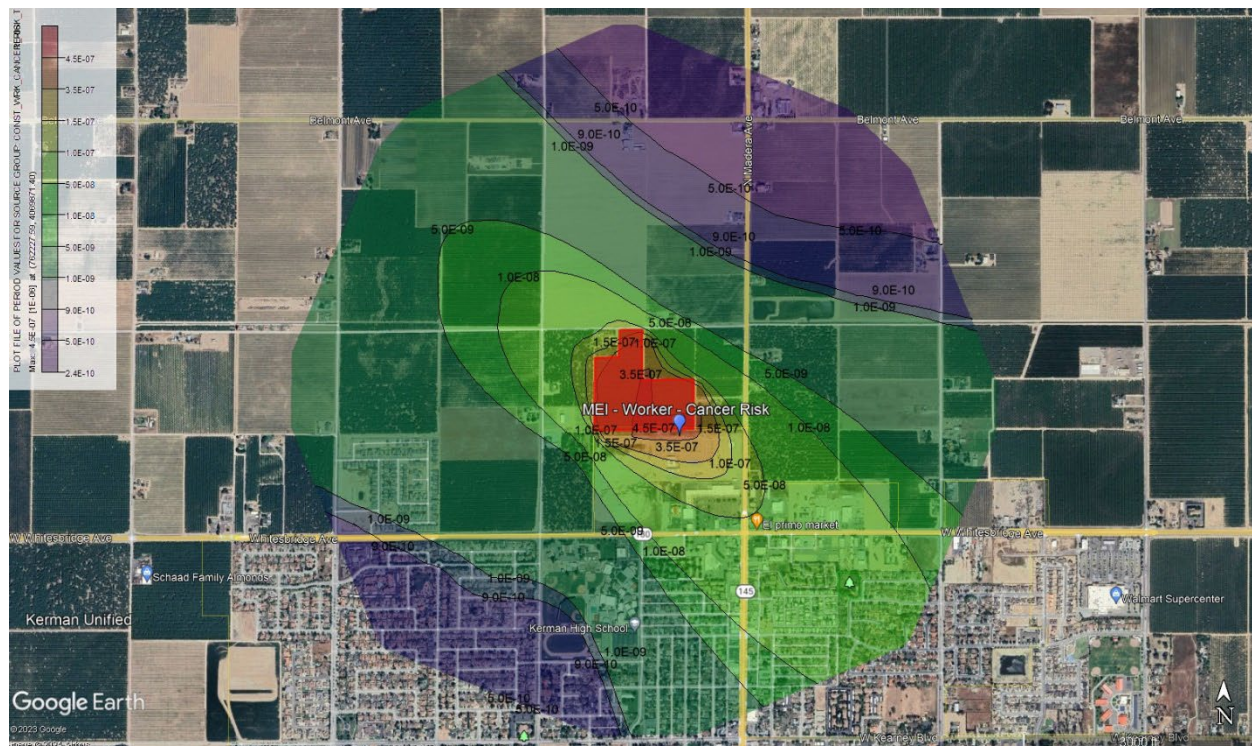
HRA MODEL SNAPSHOTS AND OUTPUT

[illegible]

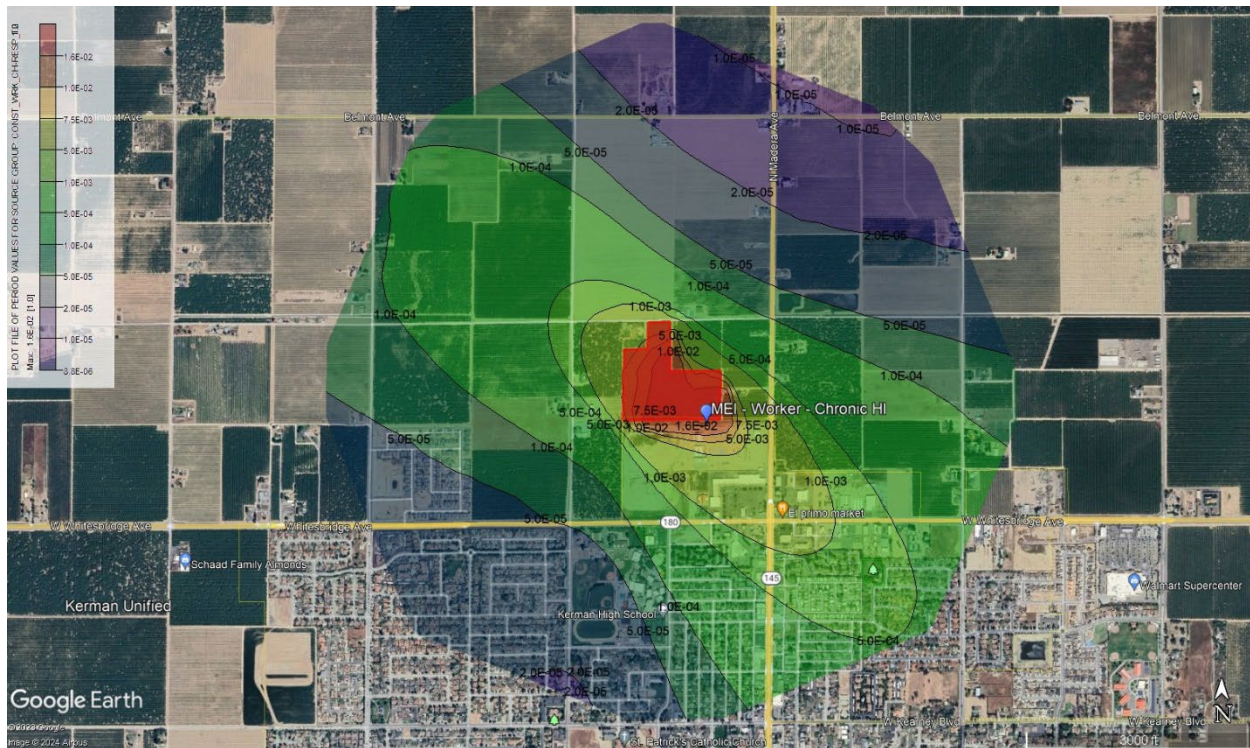
Construction Chronic Health Index – Sensitive Receptor



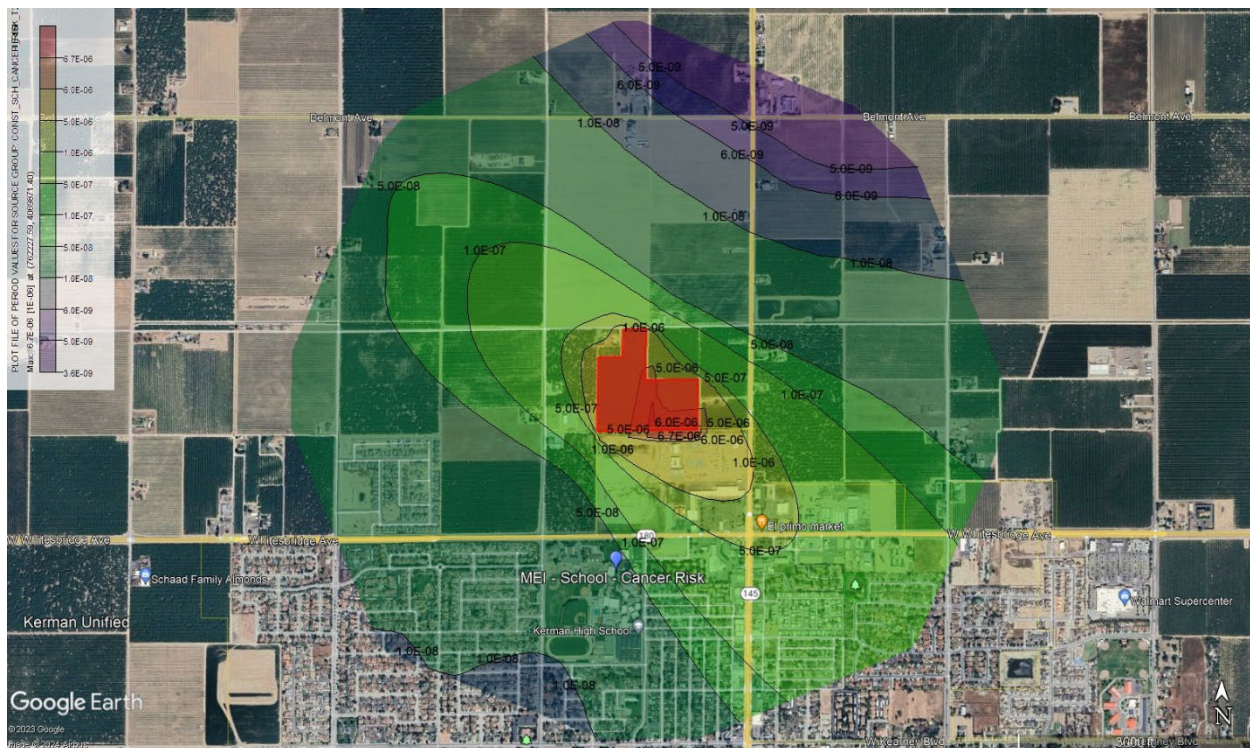
Construction Cancer Risk – Worker Receptor



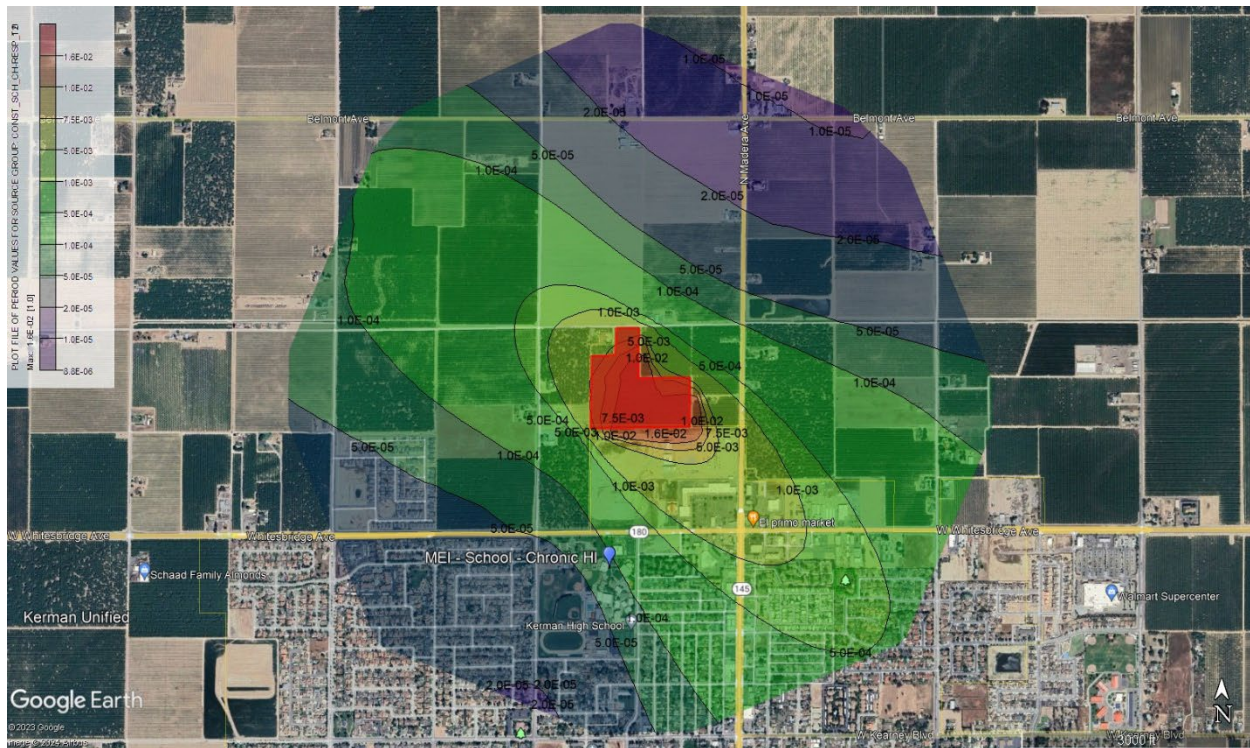
Construction Chronic Health Index – Worker Receptor



Construction Cancer Risk – School Receptor



Construction Chronic Health Index – School Receptor



Construction			
MEI (Sensitive) - Cancer Risk (in a Million)			
HARP Rec #: 1468			
X: 762349 Y: 4069999.58			
T2	T2L3	T4f	0
9.53	1.46	0.69	0.00
MEI (Sensitive) - Chronic Hazard Index			
HARP Rec #: 1468			
X: 762349 Y: 4069999.58			
T2	T2L3	T4f	0
6.66E-03	1.02E-03	5.15E-04	0.00E+00
MEI (Sensitive) - Acute Hazard Index			
HARP Rec #: NA			
X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Sensitive) - PM 2.5			
HARP Rec #: 1			
X: 0 Y: 0			
T2	T2L3	T4f	0
0.000	0.000	0.000	0.000

Operational Sensitive Receptor			
Parameter	HARP Rec #	X & Y Coordinate	Result
30 Yr Cancer Risk (in a Million)	0	0	0.00
		0	
70 Yr Cancer Risk (in a Million)	0	0	0.00
		0	
Chronic HI	0	0	0.00E+00
		0	
Acute HI	0	0	0.00E+00
		0	
PM 2.5	0	0	0.0000
		0	

Construction			
MEI (Worker) - Cancer Risk (in a Million)			
HARP Rec #: 1901			
X: 762227.59 Y: 4069871.4			
T2	T2L3	T4f	0
0.45	0.07	0.03	0.00
MEI (Worker) - Chronic Hazard Index			
HARP Rec #: 1901			
X: 762227.59 Y: 4069871.4			
T2	T2L3	T4f	0
1.63E-02	2.49E-03	1.26E-03	0.00E+00
MEI (Worker) - Acute Hazard Index			
HARP Rec #: NA			
X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Worker) - PM 2.5			
HARP Rec #: 1			
X: 0 Y: 0			
T2	T2L3	T4f	0
0.000	0.000	0.000	0.000

Operational Worker Receptor			
Parameter	HARP Rec #	X & Y Coordinate	Result
25 Yr Cancer Risk (in a Million)	0	0	0.00
		0	
Chronic HI	0	0	0.00E+00
		0	
Acute HI	0	0	0.00E+00
		0	
PM 2.5	0	0	0.00E+00
		0	

Construction			
MEI (School) - Cancer Risk (in a Million)			
HARP Rec #: 2334			
X: 761980.05 Y: 4069334.04			
T2	T2L3	T4f	0
0.03	0.00	0.00	0.00
MEI (School) - Chronic Hazard Index			
HARP Rec #: 2334			
X: 761980.05 Y: 4069334.04			
T2	T2L3	T4f	0
7.52E-05	1.15E-05	5.81E-06	0.00E+00
MEI (School) - Acute Hazard Index			
HARP Rec #: NA			
X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (School) - PM 2.5			
HARP Rec #: 1			
X: 0 Y: 0			
T2	T2L3	T4f	0
0.0000	0.0000	0.0000	0.0000

Operational School Receptor			
Parameter	HARP Rec #	X & Y Coordinate	Result
9 Yr Cancer Risk (in a Million)	0	0	0.00
		0	
Chronic HI	0	0	0.00E+00
		0	
Acute HI	0	0	0.00E+00
		0	
PM 2.5	0	0	0.0000
		0	

	Zone	10	Process Coordinates									
	Datum	WGS 1984										
	KML File Name	20241565 Project MEI										
Description	Receptor Type	Model Type	UTM X	UTM Y	Latitude	Longitude						
Construction	Sensitive	Cancer Risk	762349.00	4069999.58	36.73948987	-120.0618295	Col	Unmitigated	Sensitive			Row
Construction	Sensitive	Chronic HI	762349.00	4069999.58	36.73948987	-120.0618295		2	3	4	5	4
Construction	Sensitive	Acute HI	0	0				2	3	4	5	10
Construction	Sensitive	PM 2.5	0.00	0.00				2	3	4	5	13
Construction	School	Cancer Risk	761980.05	4069334.04	36.73359994	-120.0661848		12	13	14	15	4
Construction	School	Chronic HI	761980.05	4069334.04	36.73359994	-120.0661848		12	13	14	15	7
Construction	School	Acute HI	0	0				12	13	14	15	10
Construction	School	PM 2.5	0.00	0.00				12	13	14	15	13
Construction	Worker	Cancer Risk	762227.59	4069871.40	36.73836942	-120.0632316		7	8	9	10	4
Construction	Worker	Chronic HI	762227.59	4069871.40	36.73836942	-120.0632316		7	8	9	10	7
Construction	Worker	Acute HI	0	0				7	8	9	10	10
Construction	Worker	PM 2.5	0.00	0.00				7	8	9	10	13
Operational	Sensitive	Cancer Risk 30 yr	0	0					3	4	5	2
Operational	Sensitive	Cancer Risk 70 yr	0	0				3	4	5	2	20
Operational	Sensitive	Chronic HI	0	0				3	4	5	2	22
Operational	Sensitive	Acute HI	0	0				3	4	5	2	24
Operational	Sensitive	PM 2.5	0	0				3	4	5	2	26
Operational	Worker	Cancer Risk 25 yr	0	0				8	9	10	7	18
Operational	Worker	Chronic HI	0	0				8	9	10	7	20
Operational	Worker	Acute HI	0	0				8	9	10	7	22
Operational	Worker	PM 2.5	0	0				8	9	10	7	24
Operational	School	Cancer Risk 9 yr	0	0				13	14	15	12	18
Operational	School	Chronic HI	0	0				13	14	15	12	20
Operational	School	Acute HI	0	0				13	14	15	12	22
Operational	School	PM 2.5	0	0				13	14	15	12	24

General AERMOD Input Parameters			
Project Boundary			
Based on site plan			
Project Elevation Data			
	Source	Lakes Environmental	
	Link	http://www.webgis.com/terraindata.html	
	Evel Data Descr.	SRTM1	
Project Receptor Grid			
	Telescoping Grid	Spacing (m)	Distance (m)
	Grid 1	25	200
	Grid 2	50	400
	Grid 3	100	600
	Grid 4		
	Comments	Receptors on roads or paring lot areas have been removed.	
Meteorological Dataset			
	Location	Mendota	
	Provided By	SJVAPCD	
	Years	2007-2011	
	Elevation (m)	45	
	Link		
Construction Modeling Specific Inputs			
AERMOD Input Options			
	Regulatory Options	Default	
	Pollutant Type	Other	
	Averaging Period	Period & Hourly	
	Dispersion Coefficient	Rural	
	County	Fresno	
	Urban Grouping / Pop	N	
	# of Worker Receptors	4,178	
	# of Sensitive Receptors		
# of School Receptors			
Construction Area Parameters			
	Source Type	Polygon Area	
	Project Area (m ²)	103398.3	
	Ht. of Source (m)	3.048	

General HARP Input Parameters		
Construction		
School Receptors		
School Scenario Parameters		
	Class Grade	High School
	Starting Age	5
	Age Range	5 Year Old - 7 Years Old
	Receptor Type	Individual Resident
	Assessment Type	Cancer / Chronic / Acute
	Exposure Duration	1
	Intake Rate	OEHHA Derived Method

	Comments	Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.
School Pathway Parameters		
	Pathways	OEHHA Manadatory minimum Pathways
	Deposition Rate	0.02
	TAH < 16 yrs	N
	TAH ≥ 16 yrs	N
Sensitive Receptors		
Sensitive Scenario Parameters		
	Starting Age	3 rd Trimester
	Age Range	3 rd Trimester - 3 Year
	Receptor Type	Individual Resident
	Assessment Type	Cancer / Chronic / Acute
	Exposure Duration	1
	Intake Rate	OEHHA Derived Method
	Comments	Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.
Sensitive Pathway Parameters		
	Pathways	OEHHA Manadatory minimum Pathways
	Deposition Rate	0.02
	TAH < 16 yrs	Y
	TAH ≥ 16 yrs	Y
Worker Receptors		
Worker Scenario Parameters		
	Starting Age	16
	Age Range	16 - 18
	Receptor Type	Worker
	Assessment Type	Cancer / Chronic / Acute
	Exposure Duration	1
	Intake Rate	OEHHA Derived Merthod
	Comments	Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.
Worker Pathway Parameters		
	Pathways	OEHHA minimum Pathways
	Deposition Rate	0.02
	TAH < 16 yrs	N
	TAH ≥ 16 yrs	N

PM 10				
Tons/Yr	T2	T2L3	T4f	
Year 1	0.0971	0.014795	0.007505	0
Year 2	0.09015	0.0139	0.006065	0
Year 3	0.01818	0.002756	0.000999	0
Year 4	0	0	0	0

PM 10				
Lbs /Yr	T2	T2L3	T4f	0
Year 1	194.2	29.59	15.01	0
Year 2	180.3	27.8	12.13	0
Year 3	36.36	5.511	1.997	0
Year 4	0	0	0	0

PM 10				
% Chng	T2	T2L3	T4f	0
Year 1	100%	15%	8%	0%
Year 2	100%	15%	7%	0%
Year 3	100%	15%	5%	0%
Year 4	0%	0%	0%	0%

PM 2.5				
Tons/Yr	T4			
Year 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Year 2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Year 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Year 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PM 2.5				
Lbs /Yr	T4	0	0	0
Year 1	0	0	0	0
Year 2	0	0	0	0
Year 3	0	0	0	0
Year 4	0	0	0	0

PM 2.5				
g/sec	T4	0	0	0
Year 1	0	0	0	0
Year 2	0	0	0	0
Year 3	0	0	0	0
Year 4	0	0	0	0

T2						1472						T2L3						1.46E-06						T4f						6.89E-07						0						0.00E+00								
						9.53E-06																																												
						1468	762349.00	4069999.58																																										
		Yr 1	Yr 2	Yr 3	Yr 4	Total			Yr 1	Yr 2	Yr 3	Yr 4	Total			Yr 1	Yr 2	Yr 3	Yr 4	Total			Yr 1	Yr 2	Yr 3	Yr 4	Total			Yr 1	Yr 2	Yr 3	Yr 4	Total			Yr 1	Yr 2	Yr 3	Yr 4	Total									
1	761992.35	4070306.27	1.73E-06	1.49E-06	6.01E-08	0.00E+00	3.28E-06	2.64E-07	2.29E-07	9.12E-09	0.00E+00	5.02E-07	1.34E-07	1.00E-07	3.30E-09	0.00E+00	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
2	762015.68	4070307.52	1.62E-06	1.39E-06	5.63E-08	0.00E+00	3.07E-06	2.47E-07	2.14E-07	8.53E-09	0.00E+00	4.70E-07	1.25E-07	9.35E-08	3.09E-09	0.00E+00	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
3	762039	4070308.77	1.31E-06	1.13E-06	4.56E-08	0.00E+00	2.49E-06	2.00E-07	1.74E-07	6.91E-09	0.00E+00	3.81E-07	1.02E-07	7.58E-08	2.50E-09	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
4	762062.33	4070310.02	9.09E-07	7.80E-07	3.16E-08	0.00E+00	1.72E-06	1.39E-07	1.20E-07	4.78E-09	0.00E+00	2.64E-07	7.03E-08	5.25E-08	1.73E-09	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
5	762085.65	4070311.27	6.32E-07	5.42E-07	2.19E-08	0.00E+00	1.20E-06	9.63E-08	8.36E-08	3.33E-09	0.00E+00	1.83E-07	4.89E-08	3.65E-08	1.21E-09	0.00E+00	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
6	761974.15	4070323.42	1.18E-06	1.01E-06	4.08E-08	0.00E+00	2.23E-06	1.79E-07	1.56E-07	6.19E-09	0.00E+00	3.41E-07	9.09E-08	6.79E-08	2.24E-09	0.00E+00	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
7	761950.49	4070298.3	1.51E-06	1.29E-06	5.23E-08	0.00E+00	2.85E-06	2.30E-07	1.99E-07	7.93E-09	0.00E+00	4.37E-07	1.16E-07	8.69E-08	2.87E-09	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
8	762014.34	4070332.49	8.40E-07	7.20E-07	2.92E-08	0.00E+00	1.59E-06	1.28E-07	1.11E-07	4.42E-09	0.00E+00	2.43E-07	6.49E-08	4.85E-08	1.60E-09	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
9	762037.66	4070333.74	6.62E-07	5.67E-07	2.30E-08	0.00E+00	1.25E-06	1.01E-07	8.75E-08	3.48E-09	0.00E+00	1.92E-07	5.12E-08	3.82E-08	1.26E-09	0.00E+00	9.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
10	762060.99	4070334.99	4.90E-07	4.20E-07	1.70E-08	0.00E+00	9.27E-07	7.46E-08	6.47E-08	2.58E-09	0.00E+00	1.42E-07	3.78E-08	2.82E-08	9.34E-10	0.00E+00	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
11	762084.31	4070336.24	3.80E-07	3.25E-07	1.32E-08	0.00E+00	7.18E-07	5.78E-08	5.02E-08	2.00E-09	0.00E+00	1.10E-07	2.93E-08	2.19E-08	7.24E-10	0.00E+00	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
12	761972.82	4070348.38	7.65E-07	6.56E-07	2.65E-08	0.00E+00	1.45E-06	1.16E-07	1.01E-07	4.02E-09	0.00E+00	2.22E-07	5.91E-08	4.41E-08	1.46E-09	0.00E+00	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
13	761932.3	4070315.44	1.14E-06	9.75E-07	3.95E-08	0.00E+00	2.15E-06	1.73E-07	1.50E-07	5.98E-09	0.00E+00	3.30E-07	8.79E-08	6.56E-08	2.17E-09	0.00E+00	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
14	762013	4070357.45	5.15E-07	4.42E-07	1.79E-08	0.00E+00	9.75E-07	7.																																										

127	761685.79	4070513.01	2.64E-07	2.27E-07	9.18E-09	0.00E+00	5.00E-07	4.03E-08	3.50E-08	1.39E-09	0.00E+00	7.66E-08	2.04E-08	1.53E-08	5.04E-10	0.00E+00	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	761677.42	4070491.72	2.88E-07	2.47E-07	1.00E-08	0.00E+00	5.45E-07	4.39E-08	3.81E-08	1.52E-09	0.00E+00	8.35E-08	2.23E-08	1.66E-08	5.49E-10	0.00E+00	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
129	761669.04	4070470.43	3.12E-07	2.67E-07	1.08E-08	0.00E+00	5.89E-07	4.75E-08	4.12E-08	1.64E-09	0.00E+00	9.03E-08	2.41E-08	1.80E-08	5.94E-10	0.00E+00	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
130	761660.67	4070449.15	3.33E-07	2.86E-07	1.16E-08	0.00E+00	6.31E-07	5.08E-08	4.41E-08	1.75E-09	0.00E+00	9.66E-08	2.58E-08	1.92E-08	6.36E-10	0.00E+00	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
131	761652.3	4070427.86	3.53E-07	3.03E-07	1.23E-08	0.00E+00	6.69E-07	5.38E-08	4.67E-08	1.86E-09	0.00E+00	1.02E-07	2.73E-08	2.04E-08	6.74E-10	0.00E+00	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
132	761643.93	4070406.57	3.69E-07	3.17E-07	1.28E-08	0.00E+00	6.99E-07	5.63E-08	4.88E-08	1.94E-09	0.00E+00	1.07E-07	2.85E-08	2.13E-08	7.04E-10	0.00E+00	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
133	761635.56	4070385.28	3.81E-07	3.27E-07	1.32E-08	0.00E+00	7.22E-07	5.81E-08	5.04E-08	2.01E-09	0.00E+00	1.11E-07	2.95E-08	2.20E-08	7.27E-10	0.00E+00	5.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
134	761627.18	4070364	3.89E-07	3.33E-07	1.35E-08	0.00E+00	7.36E-07	5.92E-08	5.14E-08	2.05E-09	0.00E+00	1.13E-07	3.01E-08	2.24E-08	7.41E-10	0.00E+00	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
135	761618.81	4070342.71	3.92E-07	3.36E-07	1.36E-08	0.00E+00	7.42E-07	5.97E-08	5.18E-08	2.06E-09	0.00E+00	1.14E-07	3.03E-08	2.26E-08	7.47E-10	0.00E+00	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
136	761610.44	4070321.42	3.92E-07	3.36E-07	1.36E-08	0.00E+00	7.42E-07	5.97E-08	5.18E-08	2.06E-09	0.00E+00	1.14E-07	3.03E-08	2.26E-08	7.47E-10	0.00E+00	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
137	761602.07	4070300.13	3.87E-07	3.32E-07	1.34E-08	0.00E+00	7.32E-07	5.90E-08	5.12E-08	2.04E-09	0.00E+00	1.12E-07	2.99E-08	2.23E-08	7.38E-10	0.00E+00	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
138	761972.28	4070680.74	4.81E-08	4.12E-08	1.67E-09	0.00E+00	9.10E-08	7.33E-09	6.36E-09	2.53E-10	0.00E+00	1.39E-08	3.72E-09	2.77E-09	9.17E-11	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
139	761995.61	4070681.99	4.47E-08	3.84E-08	1.55E-09	0.00E+00	8.47E-08	6.82E-09	5.92E-09	2.35E-10	0.00E+00	1.30E-08	3.46E-09	2.58E-09	8.53E-11	0.00E+00	6.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
140	762018.93	4070683.24	4.17E-08	3.58E-08	1.45E-09	0.00E+00	7.90E-08	6.36E-09	5.52E-09	2.20E-10	0.00E+00	1.21E-08	3.23E-09	2.41E-09	7.96E-11	0.00E+00	5.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
141	762042.26	4070684.49	3.89E-08	3.33E-08	1.35E-09	0.00E+00	7.36E-08	5.93E-09	5.14E-09	2.05E-10	0.00E+00	1.13E-08	3.01E-09	2.24E-09	7.41E-11	0.00E+00	5.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
142	762065.58	4070685.74	3.64E-08	3.12E-08	1.26E-09	0.00E+00	6.89E-08	5.55E-09	4.82E-09	1.92E-10	0.00E+00	1.06E-08	2.82E-09	2.10E-09	6.94E-11	0.00E+00	4.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
143	761949.38	4070721.28	4.42E-08	3.79E-08	1.54E-09	0.00E+00	8.37E-08	6.74E-09	5.85E-09	2.33E-10	0.00E+00	1.28E-08	3.42E-09	2.55E-09	8.43E-11	0.00E+00	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
144	761908.91	4070702.51	5.52E-08	4.73E-08	1.91E-09	0.00E+00	1.04E-07	8.41E-09	7.29E-09	2.90E-10	0.00E+00	1.60E-08	4.26E-09	3.18E-09	1.05E-10	0.00E+00	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
145	761868.45	4070683.73	7.01E-08	6.01E-08	2.43E-09	0.00E+00	1.33E-07	1.07E-08	9.27E-09	3.69E-10	0.00E+00	2.03E-08	5.42E-09	4.04E-09	1.34E-10	0.00E+00	9.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
146	761827.99	4070664.96	8.94E-08	7.67E-08	3.10E-09	0.00E+00	1.69E-07	1.36E-08	1.18E-08	4.70E-10	0.00E+00	2.59E-08	6.91E-09	5.16E-09	1.70E-10	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
147	761787.53	4070646.19	1.13E-07	9.65E-08	3.91E-09	0.00E+00	2.13E-07	1.72E-08	1.49E-08	5.92E-10	0.00E+00	3.66E-08	8.70E-09	6.49E-09	2.15E-10	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
148	761747.06	4070627.41	1.38E-07	1.19E-07	4.80E-09	0.00E+00	2.62E-07	2.11E-08	1.83E-08	7.28E-10	0.00E+00	4.01E-08	1.07E-08	7.99E-09	2.64E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
149	761706.6	4070608.64	1.65E-07	1.42E-07	5.73E-09	0.00E+00	3.13E-07	2.52E-08	2.18E-08	8.69E-10	0.00E+00	4.79E-08	1.28E-08	9.53E-09	3.15E-10	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
150	761657.97	4070569.11	2.08E-07	1.78E-07	7.20E-09	0.00E+00	3.93E-07	3.16E-08	2.74E-08	1.09E-09	0.00E+00	6.01E-08	1.60E-08	1.20E-08	3.96E-10	0.00E+00	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
151	761641.65	4070527.6	2.46E-07	2.11E-07	8.55E-09	0.00E+00	4.66E-07	3.76E-08	3.26E-08	1.30E-09	0.00E+00	7.14E-08	1.91E-08	1.42E-08	4.70E-10	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
152	761625.32	4070486.09	2.82E-07	2.42E-07	9.78E-09	0.00E+00	5.33E-07	4.30E-08	3.73E-08	1.48E-09	0.00E+00	8.17E-08	2.18E-08	1.63E-08	5.37E-10	0.00E+00	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
153	761609	4070444.58	3.12E-07	2.68E-07	1.08E-08	0.00E+00	5.90E-07	4.75E-08	4.13E-08	1.64E-09	0.00E+00	9.04E-08	2.41E-08	1.80E-08	5.95E-10	0.00E+00	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
154	761592.67	4070403.07	3.28E-07	2.81E-07	1.14E-08	0.00E+00	6.21E-07	5.00E-08	4.34E-08	1.73E-09	0.00E+00	9.51E-08	2.54E-08	1.89E-08	6.26E-10	0.00E+00	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
155	761576.35	4070361.56	3.33E-07	2.85E-07	1.15E-08	0.00E+00	6.29E-07	5.07E-08	4.40E-08	1.75E-09	0.00E+00	9.64E-08	2.57E-08	1.92E-08	6.34E-10	0.00E+00	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
156	761560.02	4070320.05	3.25E-07	2.79E-07	1.13E-08	0.00E+00	6.15E-07	4.95E-08	4.30E-08	1.71E-09	0.00E+00	9.42E-08	2.51E-08	1.87E-08	6.19E-10	0.00E+00	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
157	761992.93	4070731.92	3.69E-08	3.17E-08	1.28E-09	0.00E+00	6.99E-08	5.63E-09	4.88E-09	1.94E-10	0.00E+00	1.07E-08	2.86E-09	2.13E-09	7.04E-11	0.00E+00	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
158	762016.26	4070733.17	3.47E-08	2.97E-08	1.20E-09	0.00E+00	6.56E-08	5.28E-09	4.58E-09	1.82E-10	0.00E+00	1.00E-08	2.68E-09	2.00E-09	6.61E-11	0.00E+00	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
159	762039.58	4070734.42	3.25E-08	2.79E-08	1.13E-09	0.00E+00	6.15E-08	4.95E-09	4.30E-09	1.71E-10	0.00E+00	9.42E-09	2.51E-09	1.88E-09	6.20E-11	0.00E+00	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
160	762062.91	4070735.67	3.06E-08	2.63E-08	1.06E-09	0.00E+00	5.80E-08	4.67E-09	4.05E-09	1.61E-10	0.00E+00	8.88E-09	2.37E-09	1.77E-09	5.84E-11	0.00E+00	4.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
161	761945.86	4070770.82	3.68E-08	3.16E-08	1.28E-09	0.00E+00	6.97E-08	5.61E-09	4.87E-09	1.94E-10	0.00E+00	1.07E-08	2.85E-09	2.12E-09	7.02E-11	0.00E+00	5.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
162	761924.78	4070761.04	4.08E-08	3.50E-08	1.42E-09	0.00E+00	7.72E-08	6.22E-09	5.39E-09	2.15E-10	0.00E+00	1.18E-08	3.15E-09	2.35E-09	7.78E-11	0.00E+00	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
163	761903.71	4070751.26	4.55E-08	3.90E-08	1.58E-09	0.00E+00	8.60E-08	6.93E-09	6.01E-09	2.39E-10	0.00E+00	1.32E-08	3.51E-09	2.62E-09	8.66E-11	0.00E+00	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
164	761882.64	4070741.48	5.09E-08	4.36E-08	1.77E-09	0.00E+00	9.63E-08	7.75E-09	6.73E-09	2.68E-10	0.00E+00	1.47E-08	3.93E-09	2.94E-09	9.70E-11	0.00E+00	6.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
165	761861.56	4070731.71	5.72E-08	4.91E-08	1.99E-09	0.00E+00	1.08E-07	8.72E-09	7.56E-09	3.01E-10	0.00E+00	1.66E-08	4.42E-09	3.30E-09	1.09E-10	0.00E+00	7.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
166	761840.49	4070721.93	6.45E-08	5.53E-08	2.24E-09	0.00E+00	1.22E-07	9.82E-09	8.52E-09	3.39E-10	0.00E+00	1.87E-08	4.98E-09	3.72E-09	1.23E-10	0.00E+00	8.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
167	761819.41	4070712.15	7.27E-08	6.23E-08	2.52E-09	0.00E+00	1.38E-07	1.11E-08	9.61E-09	3.82E-10	0.00E+00	2.11E-08	5.62E-09	4.19E-09	1.39E-10	0.00E+00	9.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
168	761798.34	4070702.37	8.18E-08	7.01E-08	2.84E-09	0.00E+00	1.55E-07	1.25E-08	1.08E-08	4.30E-10	0.00E+00	2.37E-08	6.32E-09	4.72E-09	1.56E-10	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
169	761777.26	4070692.6	9.16E-08	7.86E-08	3.18E-09	0.00E+00	1.73E-07	1.40E-08	1.21E-08	4.82E-10	0.00E+00	2.66E-08	7.08E-09	5.29E-09	1.75E-10	0.00E+00	1.25E-08	0.00E+00	0.00E+00</			

[illegible]

387	761422.3	4070937.27	7.10E-08	6.09E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.39E-09	3.73E-10	0.00E+00	2.06E-08	5.49E-09	4.10E-09	1.35E-10	0.00E+00	9.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	761401.37	4070927.56	7.42E-08	6.36E-08	2.58E-09	0.00E+00	1.40E-07	1.13E-08	9.81E-09	3.90E-10	0.00E+00	2.15E-08	5.74E-09	4.28E-09	1.41E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
389	761380.44	4070917.85	7.74E-08	6.64E-08	2.69E-09	0.00E+00	1.46E-07	1.18E-08	1.02E-08	4.07E-10	0.00E+00	2.24E-08	5.98E-09	4.46E-09	1.48E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
390	761359.51	4070908.14	8.05E-08	6.90E-08	2.79E-09	0.00E+00	1.52E-07	1.23E-08	1.06E-08	4.23E-10	0.00E+00	2.33E-08	6.22E-09	4.64E-09	1.53E-10	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
391	761330.14	4070876.96	8.82E-08	7.57E-08	3.06E-09	0.00E+00	1.67E-07	1.34E-08	1.17E-08	4.64E-10	0.00E+00	2.56E-08	6.82E-09	5.09E-09	1.68E-10	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
392	761321.69	4070855.49	9.31E-08	7.98E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.90E-10	0.00E+00	2.70E-08	7.20E-09	5.37E-09	1.77E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
393	761313.25	4070834.01	9.80E-08	8.40E-08	3.40E-09	0.00E+00	1.85E-07	1.49E-08	1.30E-08	5.15E-10	0.00E+00	2.84E-08	7.57E-09	5.65E-09	1.87E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
394	761304.81	4070812.54	1.03E-07	8.81E-08	3.57E-09	0.00E+00	1.94E-07	1.57E-08	1.36E-08	5.41E-10	0.00E+00	2.98E-08	7.94E-09	5.93E-09	1.96E-10	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
395	761296.36	4070791.07	1.07E-07	9.20E-08	3.72E-09	0.00E+00	2.03E-07	1.64E-08	1.42E-08	5.65E-10	0.00E+00	3.11E-08	8.29E-09	6.19E-09	2.05E-10	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
396	761287.92	4070769.6	1.12E-07	9.57E-08	3.87E-09	0.00E+00	2.11E-07	1.70E-08	1.48E-08	5.87E-10	0.00E+00	3.23E-08	8.62E-09	6.44E-09	2.13E-10	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
397	761279.47	4070748.13	1.15E-07	9.89E-08	4.00E-09	0.00E+00	2.18E-07	1.76E-08	1.52E-08	6.07E-10	0.00E+00	3.34E-08	8.91E-09	6.65E-09	2.20E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
398	761271.03	4070726.66	1.18E-07	1.02E-07	4.11E-09	0.00E+00	2.24E-07	1.81E-08	1.57E-08	6.23E-10	0.00E+00	3.43E-08	9.16E-09	6.83E-09	2.26E-10	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
399	761262.59	4070705.19	1.21E-07	1.04E-07	4.20E-09	0.00E+00	2.29E-07	1.84E-08	1.60E-08	6.36E-10	0.00E+00	3.50E-08	9.35E-09	6.98E-09	2.31E-10	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
400	761254.14	4070683.72	1.23E-07	1.05E-07	4.26E-09	0.00E+00	2.32E-07	1.87E-08	1.62E-08	6.45E-10	0.00E+00	3.56E-08	9.48E-09	7.08E-09	2.34E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
401	761245.7	4070662.24	1.24E-07	1.06E-07	4.29E-09	0.00E+00	2.34E-07	1.89E-08	1.64E-08	6.51E-10	0.00E+00	3.59E-08	9.56E-09	7.14E-09	2.36E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
402	761237.25	4070640.77	1.24E-07	1.06E-07	4.31E-09	0.00E+00	2.35E-07	1.89E-08	1.64E-08	6.53E-10	0.00E+00	3.60E-08	9.59E-09	7.16E-09	2.36E-10	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
403	761228.81	4070619.3	1.24E-07	1.06E-07	4.30E-09	0.00E+00	2.34E-07	1.89E-08	1.64E-08	6.51E-10	0.00E+00	3.59E-08	9.57E-09	7.14E-09	2.36E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
404	761220.37	4070597.83	1.23E-07	1.05E-07	4.27E-09	0.00E+00	2.33E-07	1.87E-08	1.63E-08	6.47E-10	0.00E+00	3.56E-08	9.50E-09	7.09E-09	2.34E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
405	761211.92	4070576.36	1.22E-07	1.04E-07	4.22E-09	0.00E+00	2.30E-07	1.85E-08	1.61E-08	6.40E-10	0.00E+00	3.53E-08	9.40E-09	7.02E-09	2.32E-10	0.00E+00	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
406	761203.48	4070554.89	1.20E-07	1.03E-07	4.16E-09	0.00E+00	2.27E-07	1.83E-08	1.59E-08	6.31E-10	0.00E+00	3.48E-08	9.27E-09	6.92E-09	2.29E-10	0.00E+00	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
407	761195.03	4070533.42	1.18E-07	1.01E-07	4.10E-09	0.00E+00	2.24E-07	1.80E-08	1.56E-08	6.21E-10	0.00E+00	3.42E-08	9.13E-09	6.81E-09	2.25E-10	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
408	761186.59	4070511.95	1.16E-07	9.92E-08	4.02E-09	0.00E+00	2.19E-07	1.76E-08	1.53E-08	6.09E-10	0.00E+00	3.35E-08	8.95E-09	6.68E-09	2.21E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
409	761178.15	4070490.47	1.14E-07	9.75E-08	3.95E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.98E-10	0.00E+00	3.29E-08	8.78E-09	6.56E-09	2.17E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
410	761169.7	4070469	1.12E-07	9.61E-08	3.89E-09	0.00E+00	2.12E-07	1.71E-08	1.48E-08	5.90E-10	0.00E+00	3.25E-08	8.66E-09	6.46E-09	2.14E-10	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
411	761161.26	4070447.53	1.10E-07	9.43E-08	3.82E-09	0.00E+00	2.08E-07	1.68E-08	1.45E-08	5.78E-10	0.00E+00	3.19E-08	8.50E-09	6.34E-09	2.10E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
412	761152.81	4070426.06	1.08E-07	9.23E-08	3.74E-09	0.00E+00	2.04E-07	1.64E-08	1.42E-08	5.66E-10	0.00E+00	3.12E-08	8.32E-09	6.21E-09	2.05E-10	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
413	761144.37	4070404.59	1.06E-07	9.06E-08	3.67E-09	0.00E+00	2.00E-07	1.61E-08	1.40E-08	5.56E-10	0.00E+00	3.06E-08	8.17E-09	6.10E-09	2.01E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
414	761135.93	4070383.12	1.04E-07	8.89E-08	3.60E-09	0.00E+00	1.96E-07	1.55E-08	1.37E-08	5.45E-10	0.00E+00	3.00E-08	8.01E-09	5.98E-09	1.98E-10	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
415	761127.48	4070361.65	1.02E-07	8.73E-08	3.53E-09	0.00E+00	1.93E-07	1.52E-08	1.35E-08	5.35E-10	0.00E+00	2.95E-08	7.87E-09	5.87E-09	1.94E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
416	761119.04	4070340.18	9.98E-08	8.56E-08	3.46E-09	0.00E+00	1.89E-07	1.52E-08	1.32E-08	5.25E-10	0.00E+00	2.89E-08	7.72E-09	5.76E-09	1.90E-10	0.00E+00	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
417	761110.6	4070318.77	9.76E-08	8.37E-08	3.39E-09	0.00E+00	1.85E-07	1.49E-08	1.29E-08	5.13E-10	0.00E+00	2.83E-08	7.54E-09	5.63E-09	1.86E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
418	761102.15	4070297.23	9.51E-08	8.15E-08	3.30E-09	0.00E+00	1.80E-07	1.45E-08	1.26E-08	5.00E-10	0.00E+00	2.76E-08	7.35E-09	5.48E-09	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
419	761945.53	4071180.02	1.32E-08	1.14E-08	4.60E-10	0.00E+00	2.51E-08	2.02E-09	1.75E-09	6.97E-11	0.00E+00	3.84E-09	1.02E-09	7.64E-10	2.53E-11	0.00E+00	1.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
420	761968.85	4071181.27	1.28E-08	1.10E-08	4.44E-10	0.00E+00	2.42E-08	1.95E-09	1.69E-09	6.73E-11	0.00E+00	3.71E-09	9.88E-10	7.38E-10	2.44E-11	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
421	761992.18	4071182.52	1.24E-08	1.06E-08	4.30E-10	0.00E+00	2.34E-08	1.89E-09	1.64E-09	6.51E-11	0.00E+00	3.59E-09	9.57E-10	7.14E-10	2.36E-11	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
422	762015.5	4071183.77	1.20E-08	1.03E-08	4.15E-10	0.00E+00	2.27E-08	1.82E-09	1.58E-09	6.30E-11	0.00E+00	3.47E-09	9.25E-10	6.91E-10	2.28E-11	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
423	762038.83	4071185.02	1.16E-08	9.93E-09	4.02E-10	0.00E+00	2.19E-08	1.76E-09	1.53E-09	6.09E-11	0.00E+00	3.36E-09	8.95E-10	6.68E-10	2.21E-11	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
424	761919.1	4071270.1	1.20E-08	1.03E-08	4.15E-10	0.00E+00	2.27E-08	1.82E-09	1.58E-09	6.30E-11	0.00E+00	3.47E-09	9.25E-10	6.91E-10	2.28E-11	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
425	761898.03	4071260.32	1.25E-08	1.07E-08	4.35E-10	0.00E+00	2.37E-08	1.91E-09	1.66E-09	6.59E-11	0.00E+00	3.63E-09	9.68E-10	7.22E-10	2.39E-11	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
426	761876.95	4071250.54	1.31E-08	1.13E-08	4.56E-10	0.00E+00	2.49E-08	2.00E-09	1.74E-09	6.91E-11	0.00E+00	3.81E-09	1.02E-09	7.58E-10	2.51E-11	0.00E+00	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
427	761855.88	4071240.77	1.38E-08	1.18E-08	4.79E-10	0.00E+00	2.61E-08	2.10E-09	1.82E-09	7.26E-11	0.00E+00	4.00E-09	1.07E-09	7.96E-10	2.63E-11	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
428	761834.8	4071230.99	1.45E-08	1.25E-08	5.05E-10	0.00E+00	2.75E-08	2.22E-09	1.92E-09	7.65E-11	0.00E+00	4.21E-09	1.12E-09	8.39E-10	2.77E-11	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
429	761813.73	4071221.21	1.54E-08	1.32E-08	5.33E-10	0.00E+00	2.91E-08	2.34E-09	2.03E-09	8.08E-11	0.00E+00	4.45E-09	1.19E-09	8.86E-10	2.93E-11	0.00E+00	2.10E-09	0.00E+00	0.00E+00			

517	761378.46	4071121.61	4.69E-08	4.02E-08	1.63E-09	0.00E+00	8.88E-08	7.15E-09	6.20E-09	2.47E-10	0.00E+00	1.36E-08	3.63E-09	2.71E-09	8.94E-11	0.00E+00	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	761357.85	4071112.05	4.91E-08	4.21E-08	1.70E-09	0.00E+00	9.29E-08	7.48E-09	6.49E-09	2.58E-10	0.00E+00	1.42E-08	3.80E-09	2.83E-09	9.36E-11	0.00E+00	6.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
519	761337.25	4071102.49	5.13E-08	4.39E-08	1.78E-09	0.00E+00	9.70E-08	7.81E-09	6.78E-09	2.70E-10	0.00E+00	1.49E-08	3.96E-09	2.96E-09	9.77E-11	0.00E+00	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
520	761316.64	4071092.93	5.34E-08	4.58E-08	1.85E-09	0.00E+00	1.01E-07	8.13E-09	7.06E-09	2.81E-10	0.00E+00	1.55E-08	4.13E-09	3.08E-09	1.02E-10	0.00E+00	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
521	761296.03	4071083.37	5.54E-08	4.75E-08	1.92E-09	0.00E+00	1.05E-07	8.44E-09	7.33E-09	2.92E-10	0.00E+00	1.61E-08	4.28E-09	3.20E-09	1.06E-10	0.00E+00	7.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
522	761275.43	4071073.81	5.74E-08	4.92E-08	1.99E-09	0.00E+00	1.09E-07	8.75E-09	7.59E-09	3.02E-10	0.00E+00	1.66E-08	4.44E-09	3.31E-09	1.09E-10	0.00E+00	7.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
523	761254.82	4071064.25	5.94E-08	5.09E-08	2.06E-09	0.00E+00	1.12E-07	9.05E-09	7.85E-09	3.12E-10	0.00E+00	1.72E-08	4.59E-09	3.43E-09	1.13E-10	0.00E+00	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
524	761234.22	4071054.69	6.13E-08	5.26E-08	2.13E-09	0.00E+00	1.16E-07	9.34E-09	8.11E-09	3.23E-10	0.00E+00	1.78E-08	4.74E-09	3.54E-09	1.17E-10	0.00E+00	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
525	761213.61	4071045.13	6.32E-08	5.41E-08	2.19E-09	0.00E+00	1.19E-07	9.62E-09	8.35E-09	3.32E-10	0.00E+00	1.83E-08	4.88E-09	3.64E-09	1.20E-10	0.00E+00	8.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
526	761184.69	4071014.43	6.80E-08	5.83E-08	2.36E-09	0.00E+00	1.29E-07	1.04E-08	8.99E-09	3.58E-10	0.00E+00	1.97E-08	5.26E-09	3.92E-09	1.30E-10	0.00E+00	9.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
527	761176.38	4070993.29	7.11E-08	6.10E-08	2.47E-09	0.00E+00	1.35E-07	1.08E-08	9.40E-09	3.74E-10	0.00E+00	2.06E-08	5.50E-09	4.10E-09	1.36E-10	0.00E+00	9.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
528	761168.06	4070972.15	7.42E-08	6.36E-08	2.58E-09	0.00E+00	1.40E-07	1.13E-08	9.81E-09	3.90E-10	0.00E+00	2.15E-08	5.74E-09	4.28E-09	1.41E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
529	761159.75	4070951.01	7.71E-08	6.61E-08	2.68E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.06E-10	0.00E+00	2.23E-08	5.96E-09	4.45E-09	1.47E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
530	761151.43	4070929.87	8.01E-08	6.86E-08	2.78E-09	0.00E+00	1.51E-07	1.22E-08	1.06E-08	4.21E-10	0.00E+00	2.32E-08	6.19E-09	4.62E-09	1.53E-10	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
531	761143.12	4070908.73	8.30E-08	7.11E-08	2.88E-09	0.00E+00	1.57E-07	1.26E-08	1.10E-08	4.37E-10	0.00E+00	2.41E-08	6.41E-09	4.79E-09	1.58E-10	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
532	761134.81	4070887.59	8.57E-08	7.35E-08	2.97E-09	0.00E+00	1.62E-07	1.31E-08	1.13E-08	4.51E-10	0.00E+00	2.48E-08	6.62E-09	4.94E-09	1.63E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
533	761126.49	4070866.45	8.80E-08	7.55E-08	3.05E-09	0.00E+00	1.67E-07	1.34E-08	1.16E-08	4.63E-10	0.00E+00	2.55E-08	6.80E-09	5.08E-09	1.68E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
534	761118.18	4070845.31	8.99E-08	7.71E-08	3.12E-09	0.00E+00	1.70E-07	1.37E-08	1.19E-08	4.73E-10	0.00E+00	2.61E-08	6.95E-09	5.19E-09	1.71E-10	0.00E+00	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
535	761109.87	4070824.17	9.14E-08	7.84E-08	3.17E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.81E-10	0.00E+00	2.65E-08	7.06E-09	5.27E-09	1.74E-10	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
536	761101.55	4070803.03	9.24E-08	7.93E-08	3.21E-09	0.00E+00	1.75E-07	1.41E-08	1.22E-08	4.86E-10	0.00E+00	2.68E-08	7.14E-09	5.33E-09	1.76E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
537	761093.24	4070781.89	9.30E-08	7.97E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.89E-10	0.00E+00	2.70E-08	7.19E-09	5.36E-09	1.77E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
538	761084.93	4070760.75	9.32E-08	7.99E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.90E-10	0.00E+00	2.70E-08	7.20E-09	5.37E-09	1.78E-10	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
539	761076.61	4070739.61	9.30E-08	7.97E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.89E-10	0.00E+00	2.70E-08	7.19E-09	5.36E-09	1.77E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
540	761068.3	4070718.47	9.24E-08	7.92E-08	3.21E-09	0.00E+00	1.75E-07	1.41E-08	1.22E-08	4.86E-10	0.00E+00	2.68E-08	7.14E-09	5.33E-09	1.76E-10	0.00E+00	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
541	761059.98	4070697.33	9.15E-08	7.84E-08	3.18E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.81E-10	0.00E+00	2.65E-08	7.07E-09	5.28E-09	1.74E-10	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
542	761051.67	4070676.19	9.03E-08	7.74E-08	3.13E-09	0.00E+00	1.71E-07	1.38E-08	1.19E-08	4.75E-10	0.00E+00	2.62E-08	6.98E-09	5.21E-09	1.72E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
543	761043.36	4070655.05	8.90E-08	7.63E-08	3.09E-09	0.00E+00	1.68E-07	1.36E-08	1.18E-08	4.68E-10	0.00E+00	2.58E-08	6.88E-09	5.14E-09	1.70E-10	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
544	761035.04	4070633.91	8.77E-08	7.52E-08	3.04E-09	0.00E+00	1.66E-07	1.34E-08	1.16E-08	4.61E-10	0.00E+00	2.54E-08	6.78E-09	5.06E-09	1.67E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
545	761026.73	4070612.77	8.65E-08	7.41E-08	3.00E-09	0.00E+00	1.64E-07	1.32E-08	1.14E-08	4.55E-10	0.00E+00	2.51E-08	6.68E-09	4.99E-09	1.65E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
546	761018.42	4070591.63	8.53E-08	7.31E-08	2.96E-09	0.00E+00	1.61E-07	1.30E-08	1.13E-08	4.49E-10	0.00E+00	2.47E-08	6.59E-09	4.92E-09	1.63E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
547	761010.1	4070570.49	8.42E-08	7.22E-08	2.92E-09	0.00E+00	1.59E-07	1.28E-08	1.11E-08	4.43E-10	0.00E+00	2.44E-08	6.51E-09	4.86E-09	1.61E-10	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
548	761001.79	4070549.35	8.33E-08	7.14E-08	2.89E-09	0.00E+00	1.58E-07	1.27E-08	1.10E-08	4.38E-10	0.00E+00	2.41E-08	6.44E-09	4.81E-09	1.59E-10	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
549	760993.47	4070528.21	8.25E-08	7.08E-08	2.86E-09	0.00E+00	1.56E-07	1.26E-08	1.09E-08	4.34E-10	0.00E+00	2.39E-08	6.38E-09	4.76E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
550	760985.16	4070507.07	8.15E-08	6.99E-08	2.83E-09	0.00E+00	1.54E-07	1.24E-08	1.08E-08	4.29E-10	0.00E+00	2.36E-08	6.30E-09	4.70E-09	1.55E-10	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
551	760976.85	4070485.93	8.09E-08	6.93E-08	2.81E-09	0.00E+00	1.53E-07	1.23E-08	1.07E-08	4.25E-10	0.00E+00	2.34E-08	6.25E-09	4.66E-09	1.54E-10	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
552	760968.53	4070464.79	8.05E-08	6.91E-08	2.80E-09	0.00E+00	1.52E-07	1.23E-08	1.06E-08	4.24E-10	0.00E+00	2.33E-08	6.22E-09	4.65E-09	1.54E-10	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
553	760960.22	4070443.65	8.00E-08	6.86E-08	2.78E-09	0.00E+00	1.51E-07	1.22E-08	1.06E-08	4.21E-10	0.00E+00	2.32E-08	6.18E-09	4.61E-09	1.52E-10	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
554	760951.91	4070422.51	7.92E-08	6.79E-08	2.75E-09	0.00E+00	1.50E-07	1.21E-08	1.05E-08	4.16E-10	0.00E+00	2.29E-08	6.12E-09	4.57E-09	1.51E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
555	760943.59	4070401.37	7.79E-08	6.68E-08	2.71E-09	0.00E+00	1.47E-07	1.19E-08	1.03E-08	4.10E-10	0.00E+00	2.26E-08	6.02E-09	4.50E-09	1.49E-10	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
556	760935.28	4070380.23	7.67E-08	6.57E-08	2.66E-09	0.00E+00	1.45E-07	1.17E-08	1.01E-08	4.03E-10	0.00E+00	2.22E-08	5.93E-09	4.42E-09	1.46E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
557	760926.97	4070359.09	7.53E-08	6.46E-08	2.61E-09	0.00E+00	1.42E-07	1.15E-08	9.95E-09	3.96E-10	0.00E+00	2.18E-08	5.82E-09	4.34E-09	1.44E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5																							

647	762111.98	4070287.05	9.71E-07	8.32E-07	3.37E-08	0.00E+00	1.84E-06	1.48E-07	1.28E-07	5.11E-09	0.00E+00	2.81E-07	7.50E-08	5.60E-08	1.85E-09	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	762112.71	4070262.31	2.65E-06	2.27E-06	9.18E-08	0.00E+00	5.00E-06	4.03E-07	3.50E-07	1.39E-08	0.00E+00	7.67E-07	2.04E-07	1.53E-07	5.04E-09	0.00E+00	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
649	762113.44	4070237.56	4.80E-06	4.12E-06	1.67E-07	0.00E+00	9.09E-06	7.32E-07	6.35E-07	2.53E-08	0.00E+00	1.39E-06	3.71E-07	2.77E-07	9.15E-09	0.00E+00	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
650	762114.17	4070212.82	6.30E-06	5.40E-06	2.19E-07	0.00E+00	1.19E-05	9.60E-07	8.33E-07	3.31E-08	0.00E+00	1.83E-06	4.87E-07	3.63E-07	1.20E-08	0.00E+00	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
651	762114.9	4070188.08	7.33E-06	6.29E-06	2.55E-07	0.00E+00	1.39E-05	1.12E-06	9.70E-07	3.86E-08	0.00E+00	2.13E-06	5.67E-07	4.23E-07	1.40E-08	0.00E+00	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
652	762115.64	4070163.34	8.27E-06	7.09E-06	2.87E-07	0.00E+00	1.56E-05	1.26E-06	1.09E-06	4.35E-08	0.00E+00	2.40E-06	6.39E-07	4.77E-07	1.58E-08	0.00E+00	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
653	762116.37	4070138.59	9.39E-06	8.05E-06	3.26E-07	0.00E+00	1.78E-05	1.43E-06	1.24E-06	4.94E-08	0.00E+00	2.72E-06	7.26E-07	5.42E-07	1.79E-08	0.00E+00	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
654	762117.1	4070113.85	1.07E-05	9.19E-06	3.72E-07	0.00E+00	2.03E-05	1.63E-06	1.42E-06	5.64E-08	0.00E+00	3.11E-06	8.28E-07	6.18E-07	2.04E-08	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
655	762128.91	4070305.45	4.55E-07	3.90E-07	1.58E-08	0.00E+00	8.61E-07	6.94E-08	6.02E-08	2.39E-09	0.00E+00	1.32E-07	3.52E-08	2.63E-08	8.68E-10	0.00E+00	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
656	762137.7	4070263.04	1.23E-06	1.05E-06	4.26E-08	0.00E+00	2.32E-06	1.87E-07	1.62E-07	6.46E-09	0.00E+00	3.56E-07	9.50E-08	7.09E-08	2.34E-09	0.00E+00	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
657	762138.43	4070238.3	2.18E-06	1.87E-06	7.58E-08	0.00E+00	4.13E-06	3.33E-07	2.89E-07	1.15E-08	0.00E+00	6.33E-07	1.69E-07	1.26E-07	4.16E-09	0.00E+00	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
658	762139.16	4070213.56	3.23E-06	2.77E-06	1.12E-07	0.00E+00	6.11E-06	4.92E-07	4.27E-07	1.70E-08	0.00E+00	9.35E-07	2.49E-07	1.86E-07	6.15E-09	0.00E+00	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
659	762139.89	4070188.82	4.19E-06	3.59E-06	1.45E-07	0.00E+00	7.93E-06	6.39E-07	5.54E-07	2.20E-08	0.00E+00	1.21E-06	3.24E-07	2.42E-07	7.99E-09	0.00E+00	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
660	762140.62	4070164.07	5.09E-06	4.36E-06	1.77E-07	0.00E+00	9.63E-06	7.75E-07	6.73E-07	2.68E-08	0.00E+00	1.47E-06	3.93E-07	2.93E-07	9.70E-09	0.00E+00	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
661	762141.36	4070139.33	6.05E-06	5.19E-06	2.10E-07	0.00E+00	1.15E-05	9.22E-07	8.00E-07	3.18E-08	0.00E+00	1.75E-06	4.68E-07	3.49E-07	1.15E-08	0.00E+00	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
662	762142.09	4070114.59	7.43E-06	6.37E-06	2.58E-07	0.00E+00	1.41E-05	1.13E-06	9.83E-07	3.91E-08	0.00E+00	2.15E-06	5.74E-07	4.29E-07	1.42E-08	0.00E+00	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
663	762153.9	4070306.18	3.59E-07	3.08E-07	1.25E-08	0.00E+00	6.80E-07	5.48E-08	4.75E-08	1.89E-09	0.00E+00	1.04E-07	2.78E-08	2.07E-08	6.85E-10	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
664	762119.51	4070348.07	2.44E-07	2.09E-07	8.47E-09	0.00E+00	4.62E-07	3.72E-08	3.23E-08	1.28E-09	0.00E+00	7.07E-08	1.89E-08	1.41E-08	4.65E-10	0.00E+00	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
665	762162.69	4070263.78	7.62E-07	6.54E-07	2.65E-08	0.00E+00	1.44E-06	1.16E-07	1.01E-07	4.01E-09	0.00E+00	2.21E-07	5.89E-08	4.40E-08	1.45E-09	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
666	762163.42	4070239.04	1.25E-06	1.07E-06	4.32E-08	0.00E+00	2.36E-06	1.90E-07	1.65E-07	6.55E-09	0.00E+00	3.61E-07	9.63E-08	7.19E-08	2.37E-09	0.00E+00	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
667	762164.15	4070214.3	1.88E-06	1.61E-06	6.52E-08	0.00E+00	3.56E-06	2.86E-07	2.49E-07	9.89E-09	0.00E+00	5.45E-07	1.45E-07	1.08E-07	3.58E-09	0.00E+00	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
668	762164.88	4070189.56	2.60E-06	2.23E-06	9.02E-08	0.00E+00	4.92E-06	3.96E-07	3.44E-07	1.37E-08	0.00E+00	7.53E-07	2.01E-07	1.50E-07	4.95E-09	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
669	762165.61	4070164.81	3.37E-06	2.89E-06	1.17E-07	0.00E+00	6.38E-06	5.14E-07	4.46E-07	1.77E-08	0.00E+00	9.77E-07	2.61E-07	1.94E-07	6.43E-09	0.00E+00	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
670	762166.34	4070140.07	4.28E-06	3.67E-06	1.49E-07	0.00E+00	8.10E-06	6.52E-07	5.66E-07	2.25E-08	0.00E+00	1.24E-06	3.31E-07	2.47E-07	8.16E-09	0.00E+00	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
671	762167.08	4070115.33	5.63E-06	4.83E-06	1.96E-07	0.00E+00	1.07E-05	8.58E-07	7.45E-07	2.96E-08	0.00E+00	1.63E-06	4.35E-07	3.25E-07	1.07E-08	0.00E+00	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
672	762178.89	4070306.92	2.96E-07	2.53E-07	1.03E-08	0.00E+00	5.59E-07	4.50E-08	3.91E-08	1.56E-09	0.00E+00	8.57E-08	2.28E-08	1.71E-08	5.64E-10	0.00E+00	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
673	762162.76	4070342.24	2.01E-07	1.72E-07	6.96E-09	0.00E+00	3.79E-07	3.06E-08	2.65E-08	1.06E-09	0.00E+00	5.81E-08	1.55E-08	1.16E-08	3.82E-10	0.00E+00	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
674	762136.44	4070366.46	1.78E-07	1.53E-07	6.18E-09	0.00E+00	3.37E-07	2.71E-08	2.36E-08	9.37E-10	0.00E+00	5.16E-08	1.38E-08	1.03E-08	3.40E-10	0.00E+00	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
675	762187.68	4070264.52	5.35E-07	4.58E-07	1.86E-08	0.00E+00	1.01E-06	8.14E-08	7.07E-08	2.81E-09	0.00E+00	1.55E-07	4.13E-08	3.08E-08	1.02E-09	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
676	762188.41	4070239.78	7.95E-07	6.82E-07	2.76E-08	0.00E+00	1.50E-06	1.21E-07	1.05E-07	4.18E-09	0.00E+00	2.31E-07	6.15E-08	4.59E-08	1.52E-09	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
677	762189.14	4070215.04	1.18E-06	1.01E-06	4.10E-08	0.00E+00	2.23E-06	1.80E-07	1.56E-07	6.21E-09	0.00E+00	3.42E-07	9.13E-08	6.81E-08	2.25E-09	0.00E+00	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
678	762189.87	4070190.29	1.71E-06	1.47E-06	5.95E-08	0.00E+00	3.24E-06	2.61E-07	2.27E-07	9.02E-09	0.00E+00	4.97E-07	1.33E-07	9.89E-08	3.27E-09	0.00E+00	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
679	762190.6	4070165.55	2.33E-06	2.00E-06	8.09E-08	0.00E+00	4.41E-06	3.55E-07	3.08E-07	1.23E-08	0.00E+00	6.76E-07	1.80E-07	1.34E-07	4.44E-09	0.00E+00	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
680	762191.33	4070140.81	3.12E-06	2.67E-06	1.08E-07	0.00E+00	5.90E-06	4.75E-07	4.12E-07	1.64E-08	0.00E+00	9.04E-07	2.41E-07	1.80E-07	5.94E-09	0.00E+00	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
681	762192.07	4070116.07	4.47E-06	3.83E-06	1.55E-07	0.00E+00	8.46E-06	6.81E-07	5.91E-07	2.35E-08	0.00E+00	1.30E-06	3.46E-07	2.58E-07	8.52E-09	0.00E+00	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
682	762201.86	4070312.08	2.34E-07	2.01E-07	8.14E-09	0.00E+00	4.44E-07	3.57E-08	3.10E-08	1.23E-09	0.00E+00	6.80E-08	1.81E-08	1.35E-08	4.47E-10	0.00E+00	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
683	762191.78	4070334.15	1.90E-07	1.63E-07	6.59E-09	0.00E+00	3.59E-07	2.89E-08	2.51E-08	9.98E-10	0.00E+00	5.50E-08	1.47E-08	1.09E-08	3.62E-10	0.00E+00	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
684	762181.71	4070356.22	1.55E-07	1.33E-07	5.40E-09	0.00E+00	2.94E-07	2.37E-08	2.06E-08	8.18E-10	0.00E+00	4.51E-08	1.20E-08	8.97E-09	2.96E-10	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
685	762148.8	4070386.5	1.39E-07	1.19E-07	4.82E-09	0.00E+00	2.63E-07	2.12E-08	1.84E-08	7.30E-10	0.00E+00	4.02E-08	1.07E-08	8.01E-09	2.65E-10	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
686	762125.97	4070394.71	1.47E-07	1.26E-07	5.11E-09	0.00E+00	2.79E-07	2.24E-08	1.95E-08	7.74E-10	0.00E+00	4.27E-08	1.14E-08	8.49E-09	2.81E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
687	762103.13	4070402.92	1.58E-07	1.36E-07	5.50E-09	0.00E+00	3.00E-07	2.41E-08	2.10E-08	8.34E-10	0.00E+00	4.59E-08	1.22E-08	9.14E-09	3.02E-10	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
688	762211.94	4070290	2.93E-07	2.51E-07	1.02E-08	0.00E+00	5.54E-07	4.46E-08	3.87E-08	1.54E-09	0.00E+00	8.49E-08	2.26E-08	1.69E-08	5.58E-10	0.00E+00	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
689	762212.67	4070265.26	4.05E-07	3.47E-07	1.40E-08	0.00E+00	7.66E-07	6.17E-08	5.35E-08	2.13E-09	0.00E+00	1.17E-07	3.13E-08	2.33E-08	7.71E-10	0.00E+00	5.54E-08	0.00E+00	0.00E+00			

777	762224.37	4070530.71	4.61E-08	3.95E-08	1.60E-09	0.00E+00	8.71E-08	7.02E-09	6.09E-09	2.42E-10	0.00E+00	1.33E-08	3.56E-09	2.66E-09	8.78E-11	0.00E+00	6.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	762202.45	4070538.59	4.73E-08	4.05E-08	1.64E-09	0.00E+00	8.94E-08	7.20E-09	6.25E-09	2.49E-10	0.00E+00	1.37E-08	3.65E-09	2.73E-09	9.01E-11	0.00E+00	6.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
779	762180.53	4070546.47	4.85E-08	4.15E-08	1.68E-09	0.00E+00	9.17E-08	7.38E-09	6.41E-09	2.55E-10	0.00E+00	1.40E-08	3.74E-09	2.79E-09	9.24E-11	0.00E+00	6.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
780	762158.61	4070554.36	4.97E-08	4.26E-08	1.72E-09	0.00E+00	9.40E-08	7.57E-09	6.57E-09	2.61E-10	0.00E+00	1.44E-08	3.84E-09	2.87E-09	9.47E-11	0.00E+00	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
781	762136.69	4070562.24	5.10E-08	4.37E-08	1.77E-09	0.00E+00	9.64E-08	7.76E-09	6.74E-09	2.68E-10	0.00E+00	1.48E-08	3.94E-09	2.94E-09	9.71E-11	0.00E+00	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
782	762114.77	4070570.12	5.23E-08	4.49E-08	1.82E-09	0.00E+00	9.90E-08	7.97E-09	6.92E-09	2.75E-10	0.00E+00	1.52E-08	4.04E-09	3.02E-09	9.97E-11	0.00E+00	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
783	762092.86	4070578	5.38E-08	4.62E-08	1.87E-09	0.00E+00	1.02E-07	8.20E-09	7.12E-09	2.83E-10	0.00E+00	1.56E-08	4.16E-09	3.10E-09	1.03E-10	0.00E+00	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
784	762386.86	4070295.17	1.13E-07	9.71E-08	3.93E-09	0.00E+00	2.14E-07	1.73E-08	1.50E-08	5.96E-10	0.00E+00	3.28E-08	8.75E-09	6.53E-09	2.16E-10	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
785	762387.59	4070270.43	1.37E-07	1.18E-07	4.77E-09	0.00E+00	2.60E-07	2.09E-08	1.82E-08	7.23E-10	0.00E+00	3.98E-08	1.06E-08	7.92E-09	2.62E-10	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
786	762388.32	4070245.69	1.66E-07	1.43E-07	5.77E-09	0.00E+00	3.15E-07	2.53E-08	2.20E-08	8.75E-10	0.00E+00	4.82E-08	1.29E-08	9.59E-09	3.17E-10	0.00E+00	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
787	762389.05	4070220.94	2.03E-07	1.74E-07	7.05E-09	0.00E+00	3.84E-07	3.09E-08	2.68E-08	1.07E-09	0.00E+00	5.88E-08	1.57E-08	1.17E-08	3.87E-10	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
788	762389.78	4070196.2	2.51E-07	2.15E-07	8.70E-09	0.00E+00	4.74E-07	3.82E-08	3.31E-08	1.32E-09	0.00E+00	7.26E-08	1.94E-08	1.45E-08	4.78E-10	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
789	762390.52	4070171.46	3.14E-07	2.69E-07	1.09E-08	0.00E+00	5.94E-07	4.78E-08	4.15E-08	1.65E-09	0.00E+00	9.10E-08	2.43E-08	1.81E-08	5.99E-10	0.00E+00	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
790	762391.25	4070146.72	4.00E-07	3.43E-07	1.39E-08	0.00E+00	7.58E-07	6.10E-08	5.29E-08	2.11E-09	0.00E+00	1.16E-07	3.10E-08	2.31E-08	7.63E-10	0.00E+00	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
791	762391.98	4070121.97	5.22E-07	4.48E-07	1.81E-08	0.00E+00	9.88E-07	7.95E-08	6.90E-08	2.75E-09	0.00E+00	1.51E-07	4.03E-08	3.01E-08	9.95E-10	0.00E+00	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
792	762392.71	4070097.23	6.98E-07	5.98E-07	2.42E-08	0.00E+00	1.32E-06	1.06E-07	9.22E-08	3.67E-09	0.00E+00	2.02E-07	5.39E-08	4.02E-08	1.33E-09	0.00E+00	9.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
793	762426.58	4070319.12	8.25E-08	7.08E-08	2.86E-09	0.00E+00	1.56E-07	1.26E-08	1.09E-08	4.34E-10	0.00E+00	2.39E-08	6.38E-09	4.76E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
794	762416.32	4070341.6	7.38E-08	6.33E-08	2.56E-09	0.00E+00	1.40E-07	1.12E-08	9.76E-09	3.88E-10	0.00E+00	2.14E-08	5.71E-09	4.26E-09	1.41E-10	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
795	762406.06	4070364.07	6.62E-08	5.67E-08	2.30E-09	0.00E+00	1.25E-07	1.01E-08	8.75E-09	3.48E-10	0.00E+00	1.92E-08	5.11E-09	3.82E-09	1.26E-10	0.00E+00	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
796	762395.8	4070386.55	5.97E-08	5.12E-08	2.07E-09	0.00E+00	1.13E-07	9.10E-09	7.90E-09	3.14E-10	0.00E+00	1.73E-08	4.62E-09	3.45E-09	1.14E-10	0.00E+00	8.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
797	762385.54	4070409.02	5.41E-08	4.64E-08	1.88E-09	0.00E+00	1.02E-07	8.24E-09	7.15E-09	2.85E-10	0.00E+00	1.57E-08	4.18E-09	3.12E-09	1.03E-10	0.00E+00	7.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
798	762375.28	4070431.49	4.95E-08	4.24E-08	1.72E-09	0.00E+00	9.36E-08	7.54E-09	6.54E-09	2.60E-10	0.00E+00	1.43E-08	3.82E-09	2.85E-09	9.43E-11	0.00E+00	6.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
799	762365.02	4070453.97	4.54E-08	3.90E-08	1.58E-09	0.00E+00	8.60E-08	6.92E-09	6.01E-09	2.39E-10	0.00E+00	1.32E-08	3.51E-09	2.62E-09	8.66E-11	0.00E+00	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
800	762354.76	4070476.44	4.20E-08	3.60E-08	1.46E-09	0.00E+00	7.94E-08	6.40E-09	5.55E-09	2.21E-10	0.00E+00	1.22E-08	3.24E-09	2.42E-09	8.00E-11	0.00E+00	5.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
801	762344.5	4070498.91	3.91E-08	3.35E-08	1.36E-09	0.00E+00	7.40E-08	5.96E-09	5.17E-09	2.06E-10	0.00E+00	1.13E-08	3.02E-09	2.26E-09	7.46E-11	0.00E+00	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
802	762334.24	4070521.39	3.66E-08	3.13E-08	1.27E-09	0.00E+00	6.92E-08	5.57E-09	4.83E-09	1.92E-10	0.00E+00	1.06E-08	2.83E-09	2.11E-09	6.97E-11	0.00E+00	5.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
803	762300.74	4070552.22	3.50E-08	3.00E-08	1.21E-09	0.00E+00	6.61E-08	5.33E-09	4.62E-09	1.84E-10	0.00E+00	1.01E-08	2.70E-09	2.02E-09	6.66E-11	0.00E+00	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
804	762277.49	4070560.58	3.57E-08	3.06E-08	1.24E-09	0.00E+00	6.76E-08	5.44E-09	4.72E-09	1.88E-10	0.00E+00	1.04E-08	2.76E-09	2.06E-09	6.81E-11	0.00E+00	4.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
805	762254.24	4070568.94	3.66E-08	3.14E-08	1.27E-09	0.00E+00	6.93E-08	5.58E-09	4.84E-09	1.93E-10	0.00E+00	1.06E-08	2.83E-09	2.11E-09	6.98E-11	0.00E+00	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
806	762230.99	4070577.3	3.75E-08	3.21E-08	1.30E-09	0.00E+00	7.09E-08	5.71E-09	4.96E-09	1.97E-10	0.00E+00	1.09E-08	2.90E-09	2.16E-09	7.15E-11	0.00E+00	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
807	762207.75	4070585.66	3.84E-08	3.29E-08	1.33E-09	0.00E+00	7.26E-08	5.84E-09	5.07E-09	2.02E-10	0.00E+00	1.11E-08	2.96E-09	2.21E-09	7.31E-11	0.00E+00	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
808	762184.5	4070594.01	3.92E-08	3.37E-08	1.36E-09	0.00E+00	7.43E-08	5.98E-09	5.19E-09	2.06E-10	0.00E+00	1.14E-08	3.03E-09	2.26E-09	7.48E-11	0.00E+00	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
809	762161.25	4070602.37	4.01E-08	3.44E-08	1.39E-09	0.00E+00	7.59E-08	6.12E-09	5.31E-09	2.11E-10	0.00E+00	1.16E-08	3.10E-09	2.32E-09	7.65E-11	0.00E+00	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
810	762138	4070610.73	4.11E-08	3.52E-08	1.43E-09	0.00E+00	7.77E-08	6.26E-09	5.43E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.83E-11	0.00E+00	5.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
811	762114.76	4070619.09	4.21E-08	3.61E-08	1.46E-09	0.00E+00	7.97E-08	6.42E-09	5.57E-09	2.21E-10	0.00E+00	1.22E-08	3.25E-09	2.43E-09	8.03E-11	0.00E+00	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
812	762091.51	4070627.45	4.32E-08	3.70E-08	1.50E-09	0.00E+00	8.17E-08	6.58E-09	5.71E-09	2.27E-10	0.00E+00	1.25E-08	3.34E-09	2.49E-09	8.23E-11	0.00E+00	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
813	762436.84	4070296.65	9.31E-08	7.99E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.90E-10	0.00E+00	2.70E-08	7.20E-09	5.37E-09	1.78E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
814	762437.57	4070271.91	1.11E-07	9.50E-08	3.85E-09	0.00E+00	2.10E-07	1.69E-08	1.47E-08	5.83E-10	0.00E+00	3.21E-08	8.57E-09	6.39E-09	2.11E-10	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
815	762438.3	4070247.16	1.32E-07	1.13E-07	4.58E-09	0.00E+00	2.50E-07	2.01E-08	1.74E-08	6.94E-10	0.00E+00	3.82E-08	1.02E-08	7.61E-09	2.51E-10	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
816	762439.03	4070222.42	1.57E-07	1.35E-07	5.46E-09	0.00E+00	2.97E-07	2.40E-08	2.08E-08	8.27E-10	0.00E+00	4.56E-08	1.22E-08	9.07E-09	3.00E-10	0.00E+00	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
817	762439.76	4070197.68	1.90E-07	1.63E-07	6.60E-09	0.00E+00	3.60E-07	2.90E-08	2.51E-08	1.00E-09	0.00E+00	5.51E-08	1.47E-08	1.10E-08	3.62E-10	0.00E+00	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
818	7624																						

907	762402.72	4070662.45	2.08E-08	1.79E-08	7.23E-10	0.00E+00	3.94E-08	3.18E-09	2.75E-09	1.10E-10	0.00E+00	6.04E-09	1.61E-09	1.20E-09	3.97E-11	0.00E+00	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	762379.89	4070670.66	2.11E-08	1.81E-08	7.32E-10	0.00E+00	3.99E-08	3.21E-09	2.79E-09	1.11E-10	0.00E+00	6.11E-09	1.63E-09	1.22E-09	4.02E-11	0.00E+00	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
909	762357.06	4070678.87	2.14E-08	1.83E-08	7.42E-10	0.00E+00	4.05E-08	3.26E-09	2.83E-09	1.13E-10	0.00E+00	6.20E-09	1.65E-09	1.23E-09	4.08E-11	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
910	762334.22	4070687.08	2.17E-08	1.86E-08	7.53E-10	0.00E+00	4.10E-08	3.30E-09	2.87E-09	1.14E-10	0.00E+00	6.29E-09	1.68E-09	1.25E-09	4.13E-11	0.00E+00	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
911	762311.39	4070695.29	2.20E-08	1.89E-08	7.64E-10	0.00E+00	4.16E-08	3.35E-09	2.91E-09	1.16E-10	0.00E+00	6.38E-09	1.70E-09	1.27E-09	4.20E-11	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
912	762288.56	4070703.5	2.23E-08	1.91E-08	7.74E-10	0.00E+00	4.22E-08	3.40E-09	2.95E-09	1.17E-10	0.00E+00	6.47E-09	1.72E-09	1.29E-09	4.25E-11	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
913	762265.73	4070711.71	2.26E-08	1.94E-08	7.86E-10	0.00E+00	4.29E-08	3.45E-09	2.99E-09	1.19E-10	0.00E+00	6.56E-09	1.75E-09	1.31E-09	4.32E-11	0.00E+00	3.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
914	762242.89	4070719.92	2.30E-08	1.97E-08	7.98E-10	0.00E+00	4.35E-08	3.50E-09	3.04E-09	1.21E-10	0.00E+00	6.66E-09	1.78E-09	1.33E-09	4.38E-11	0.00E+00	3.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
915	762220.06	4070728.13	2.33E-08	2.00E-08	8.10E-10	0.00E+00	4.42E-08	3.56E-09	3.09E-09	1.23E-10	0.00E+00	6.76E-09	1.80E-09	1.35E-09	4.45E-11	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
916	762197.23	4070736.34	2.37E-08	2.03E-08	8.23E-10	0.00E+00	4.49E-08	3.61E-09	3.13E-09	1.25E-10	0.00E+00	6.87E-09	1.83E-09	1.37E-09	4.52E-11	0.00E+00	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
917	762174.4	4070744.55	2.41E-08	2.06E-08	8.35E-10	0.00E+00	4.55E-08	3.67E-09	3.18E-09	1.27E-10	0.00E+00	6.98E-09	1.86E-09	1.39E-09	4.59E-11	0.00E+00	3.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
918	762151.56	4070752.76	2.44E-08	2.10E-08	8.48E-10	0.00E+00	4.62E-08	3.72E-09	3.23E-09	1.29E-10	0.00E+00	7.08E-09	1.89E-09	1.41E-09	4.66E-11	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
919	762128.73	4070760.97	2.48E-08	2.13E-08	8.61E-10	0.00E+00	4.69E-08	3.78E-09	3.28E-09	1.31E-10	0.00E+00	7.19E-09	1.92E-09	1.43E-09	4.73E-11	0.00E+00	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
920	762105.9	4070769.17	2.52E-08	2.16E-08	8.76E-10	0.00E+00	4.77E-08	3.85E-09	3.34E-09	1.33E-10	0.00E+00	7.31E-09	1.95E-09	1.46E-09	4.81E-11	0.00E+00	3.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
921	762083.07	4070777.38	2.57E-08	2.20E-08	8.92E-10	0.00E+00	4.86E-08	3.92E-09	3.40E-09	1.35E-10	0.00E+00	7.45E-09	1.99E-09	1.48E-09	4.90E-11	0.00E+00	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
922	762586.77	4070301.08	6.35E-08	5.45E-08	2.21E-09	0.00E+00	1.20E-07	9.68E-09	8.40E-09	3.34E-10	0.00E+00	1.84E-08	4.91E-09	3.67E-09	1.21E-10	0.00E+00	8.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
923	762587.5	4070276.34	7.24E-08	6.21E-08	2.51E-09	0.00E+00	1.37E-07	1.10E-08	9.57E-09	3.81E-10	0.00E+00	2.10E-08	5.60E-09	4.18E-09	1.38E-10	0.00E+00	9.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
924	762588.23	4070251.6	8.24E-08	7.06E-08	2.86E-09	0.00E+00	1.56E-07	1.26E-08	1.09E-08	4.33E-10	0.00E+00	2.39E-08	6.37E-09	4.75E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
925	762588.97	4070226.85	9.46E-08	8.12E-08	3.29E-09	0.00E+00	1.79E-07	1.44E-08	1.25E-08	4.98E-10	0.00E+00	2.74E-08	7.32E-09	5.46E-09	1.80E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
926	762589.7	4070202.11	1.09E-07	9.38E-08	3.80E-09	0.00E+00	2.07E-07	1.67E-08	1.45E-08	5.76E-10	0.00E+00	3.17E-08	8.46E-09	6.31E-09	2.09E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
927	762590.43	4070177.37	1.27E-07	1.09E-07	4.42E-09	0.00E+00	2.41E-07	1.94E-08	1.68E-08	6.70E-10	0.00E+00	3.69E-08	9.84E-09	7.31E-09	2.43E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
928	762591.16	4070152.63	1.48E-07	1.27E-07	5.13E-09	0.00E+00	2.80E-07	2.25E-08	1.95E-08	7.78E-10	0.00E+00	4.29E-08	1.14E-08	8.53E-09	2.82E-10	0.00E+00	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
929	762591.89	4070127.88	1.72E-07	1.48E-07	5.98E-09	0.00E+00	3.26E-07	2.63E-08	2.28E-08	9.07E-10	0.00E+00	5.00E-08	1.33E-08	9.94E-09	3.29E-10	0.00E+00	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
930	762592.62	4070103.14	2.01E-07	1.73E-07	6.99E-09	0.00E+00	3.81E-07	3.07E-08	2.66E-08	1.06E-09	0.00E+00	5.83E-08	1.56E-08	1.16E-08	3.84E-10	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
931	762626.9	4070324.14	5.27E-08	4.52E-08	1.83E-09	0.00E+00	9.98E-08	8.04E-09	6.97E-09	2.77E-10	0.00E+00	1.53E-08	4.08E-09	3.04E-09	1.01E-10	0.00E+00	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
932	762617.05	4070345.72	4.86E-08	4.17E-08	1.69E-09	0.00E+00	9.20E-08	7.41E-09	6.43E-09	2.56E-10	0.00E+00	1.41E-08	3.76E-09	2.81E-09	9.27E-11	0.00E+00	6.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
933	762607.19	4070367.3	4.50E-08	3.86E-08	1.56E-09	0.00E+00	8.52E-08	6.86E-09	5.95E-09	2.37E-10	0.00E+00	1.31E-08	3.48E-09	2.60E-09	8.58E-11	0.00E+00	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
934	762597.34	4070388.89	4.15E-08	3.56E-08	1.44E-09	0.00E+00	7.85E-08	6.32E-09	5.48E-09	2.18E-10	0.00E+00	1.20E-08	3.20E-09	2.39E-09	7.90E-11	0.00E+00	5.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
935	762587.49	4070410.47	3.83E-08	3.29E-08	1.33E-09	0.00E+00	7.25E-08	5.84E-09	5.07E-09	2.02E-10	0.00E+00	1.11E-08	2.96E-09	2.21E-09	7.31E-11	0.00E+00	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
936	762577.64	4070432.05	3.54E-08	3.03E-08	1.23E-09	0.00E+00	6.69E-08	5.39E-09	4.68E-09	1.86E-10	0.00E+00	1.02E-08	2.73E-09	2.04E-09	6.74E-11	0.00E+00	4.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
937	762567.79	4070453.63	3.27E-08	2.80E-08	1.13E-09	0.00E+00	6.18E-08	4.98E-09	4.32E-09	1.72E-10	0.00E+00	9.47E-09	2.52E-09	1.88E-09	6.23E-11	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
938	762557.93	4070475.21	3.06E-08	2.62E-08	1.06E-09	0.00E+00	5.79E-08	4.66E-09	4.04E-09	1.61E-10	0.00E+00	8.86E-09	2.36E-09	1.76E-09	5.83E-11	0.00E+00	4.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
939	762548.08	4070496.8	2.88E-08	2.47E-08	1.00E-09	0.00E+00	5.46E-08	4.39E-09	3.81E-09	1.52E-10	0.00E+00	8.36E-09	2.23E-09	1.66E-09	5.50E-11	0.00E+00	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
940	762538.23	4070518.38	2.72E-08	2.33E-08	9.44E-10	0.00E+00	5.15E-08	4.15E-09	3.60E-09	1.43E-10	0.00E+00	7.88E-09	2.10E-09	1.57E-09	5.19E-11	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
941	762528.38	4070539.96	2.57E-08	2.20E-08	8.91E-10	0.00E+00	4.86E-08	3.91E-09	3.39E-09	1.35E-10	0.00E+00	7.44E-09	1.98E-09	1.48E-09	4.89E-11	0.00E+00	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
942	762518.52	4070561.54	2.43E-08	2.08E-08	8.42E-10	0.00E+00	4.59E-08	3.70E-09	3.21E-09	1.28E-10	0.00E+00	7.03E-09	1.88E-09	1.40E-09	4.62E-11	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
943	762508.67	4070583.12	2.30E-08	1.97E-08	7.97E-10	0.00E+00	4.35E-08	3.50E-09	3.04E-09	1.21E-10	0.00E+00	6.66E-09	1.78E-09	1.32E-09	4.35E-11	0.00E+00	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
944	762498.82	4070604.71	2.18E-08	1.87E-08	7.56E-10	0.00E+00	4.12E-08	3.32E-09	2.88E-09	1.15E-10	0.00E+00	6.31E-09	1.68E-09	1.26E-09	4.18E-11	0.00E+00	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
945	762488.97	4070626.29	2.07E-08	1.77E-08	7.18E-10	0.00E+00	3.91E-08	3.15E-09	2.73E-09	1.09E-10	0.00E+00	5.99E-09	1.60E-09	1.19E-09	3.94E-11	0.00E+00	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
946	762479.12	4070647.87	1.97E-08	1.69E-08	6.83E-10	0.00E+00	3.72E-08	3.00E-09	2.60E-09	1.03E-10	0.00E+00	5.70E-09	1.52E-09	1.13E-09	3.75E-11	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
947	762469.26	4070669.45	1.88E-08	1.61E-08	6.52E-10	0.00E+00	3.55E-08	2.86E-09	2.48E-09	9.88E-11	0.00E+00	5.44E-09	1.45E-09	1.08E-09	3.58E-11	0.00E+00	2.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
948	762437.09	4070699.06	1.81E-08	1.56E-08	6.30E-10	0.00E+00	3.43E-08	2.76E-09	2.40E-09	9.54E-11	0.00E+00	5.26E-09	1.40E-09	1.05E-09	3.46E-11	0.00E+00	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
949	762414.76	4070707.09	1.84E-08	1.58E-08	6.38E-10	0.00E+00	3.48E-08	2.80E-09	2.43E-09	9.67E-11	0.00E+00	5.33E-09	1.42E-09	1.06E-09	3.50E-11	0.00E+00	2.51E-09	0.00E+00	0.00E+00			

1037	762591.76	4070733.99	1.43E-08	1.23E-08	4.98E-10	0.00E+00	2.71E-08	2.19E-09	1.90E-09	7.55E-11	0.00E+00	4.16E-09	1.11E-09	8.28E-10	2.74E-11	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	762581.5	4070756.47	1.39E-08	1.19E-08	4.82E-10	0.00E+00	2.63E-08	2.12E-09	1.84E-09	7.31E-11	0.00E+00	4.02E-09	1.07E-09	8.01E-10	2.65E-11	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1039	762571.24	4070778.94	1.34E-08	1.15E-08	4.64E-10	0.00E+00	2.53E-08	2.04E-09	1.77E-09	7.03E-11	0.00E+00	3.88E-09	1.03E-09	7.71E-10	2.55E-11	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1040	762537.73	4070809.77	1.30E-08	1.11E-08	4.51E-10	0.00E+00	2.46E-08	1.98E-09	1.72E-09	6.84E-11	0.00E+00	3.77E-09	1.00E-09	7.50E-10	2.48E-11	0.00E+00	1.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1041	762514.49	4070818.13	1.30E-08	1.12E-08	4.52E-10	0.00E+00	2.46E-08	1.98E-09	1.72E-09	6.85E-11	0.00E+00	3.77E-09	1.01E-09	7.51E-10	2.48E-11	0.00E+00	1.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1042	762491.24	4070826.49	1.31E-08	1.12E-08	4.55E-10	0.00E+00	2.48E-08	2.00E-09	1.73E-09	6.89E-11	0.00E+00	3.80E-09	1.01E-09	7.56E-10	2.50E-11	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1043	762467.99	4070834.85	1.32E-08	1.14E-08	4.60E-10	0.00E+00	2.51E-08	2.02E-09	1.75E-09	6.97E-11	0.00E+00	3.84E-09	1.02E-09	7.64E-10	2.53E-11	0.00E+00	1.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1044	762444.74	4070843.21	1.34E-08	1.15E-08	4.67E-10	0.00E+00	2.54E-08	2.05E-09	1.78E-09	7.07E-11	0.00E+00	3.90E-09	1.04E-09	7.75E-10	2.56E-11	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1045	762421.49	4070851.57	1.36E-08	1.16E-08	4.72E-10	0.00E+00	2.57E-08	2.07E-09	1.80E-09	7.15E-11	0.00E+00	3.94E-09	1.05E-09	7.84E-10	2.59E-11	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1046	762398.25	4070859.93	1.37E-08	1.18E-08	4.76E-10	0.00E+00	2.60E-08	2.09E-09	1.81E-09	7.22E-11	0.00E+00	3.98E-09	1.06E-09	7.92E-10	2.62E-11	0.00E+00	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1047	762375	4070868.28	1.39E-08	1.19E-08	4.81E-10	0.00E+00	2.62E-08	2.11E-09	1.83E-09	7.29E-11	0.00E+00	4.01E-09	1.07E-09	7.99E-10	2.64E-11	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1048	762351.75	4070876.64	1.40E-08	1.20E-08	4.85E-10	0.00E+00	2.64E-08	2.13E-09	1.85E-09	7.35E-11	0.00E+00	4.05E-09	1.08E-09	8.06E-10	2.66E-11	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1049	762328.5	4070885	1.41E-08	1.21E-08	4.89E-10	0.00E+00	2.67E-08	2.15E-09	1.86E-09	7.42E-11	0.00E+00	4.09E-09	1.09E-09	8.13E-10	2.69E-11	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1050	762305.26	4070893.36	1.42E-08	1.22E-08	4.94E-10	0.00E+00	2.69E-08	2.17E-09	1.88E-09	7.49E-11	0.00E+00	4.13E-09	1.10E-09	8.21E-10	2.71E-11	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1051	762282.01	4070901.72	1.44E-08	1.23E-08	4.99E-10	0.00E+00	2.72E-08	2.19E-09	1.90E-09	7.57E-11	0.00E+00	4.17E-09	1.11E-09	8.30E-10	2.74E-11	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1052	762258.76	4070910.08	1.45E-08	1.25E-08	5.05E-10	0.00E+00	2.75E-08	2.22E-09	1.92E-09	7.65E-11	0.00E+00	4.21E-09	1.12E-09	8.39E-10	2.77E-11	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1053	762235.51	4070918.44	1.47E-08	1.26E-08	5.10E-10	0.00E+00	2.78E-08	2.24E-09	1.94E-09	7.72E-11	0.00E+00	4.26E-09	1.13E-09	8.47E-10	2.80E-11	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1054	762212.26	4070926.8	1.48E-08	1.27E-08	5.15E-10	0.00E+00	2.81E-08	2.26E-09	1.96E-09	7.80E-11	0.00E+00	4.30E-09	1.15E-09	8.55E-10	2.83E-11	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1055	762189.02	4070935.15	1.50E-08	1.28E-08	5.20E-10	0.00E+00	2.83E-08	2.28E-09	1.98E-09	7.87E-11	0.00E+00	4.34E-09	1.16E-09	8.63E-10	2.85E-11	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1056	762165.77	4070943.51	1.51E-08	1.30E-08	5.25E-10	0.00E+00	2.86E-08	2.30E-09	2.00E-09	7.96E-11	0.00E+00	4.38E-09	1.17E-09	8.73E-10	2.88E-11	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1057	762142.52	4070951.87	1.53E-08	1.31E-08	5.31E-10	0.00E+00	2.89E-08	2.33E-09	2.02E-09	8.04E-11	0.00E+00	4.43E-09	1.18E-09	8.82E-10	2.91E-11	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1058	762119.27	4070960.23	1.55E-08	1.33E-08	5.37E-10	0.00E+00	2.93E-08	2.36E-09	2.05E-09	8.14E-11	0.00E+00	4.49E-09	1.20E-09	8.93E-10	2.95E-11	0.00E+00	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1059	762096.03	4070968.59	1.57E-08	1.35E-08	5.45E-10	0.00E+00	2.97E-08	2.39E-09	2.07E-09	8.26E-11	0.00E+00	4.55E-09	1.21E-09	9.05E-10	2.99E-11	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1060	762072.78	4070976.95	1.60E-08	1.37E-08	5.54E-10	0.00E+00	3.02E-08	2.43E-09	2.11E-09	8.40E-11	0.00E+00	4.63E-09	1.23E-09	9.21E-10	3.04E-11	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1061	762786.68	4070306.99	4.59E-08	3.93E-08	1.59E-09	0.00E+00	8.68E-08	6.99E-09	6.06E-09	2.41E-10	0.00E+00	1.33E-08	3.54E-09	2.65E-09	8.74E-11	0.00E+00	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1062	762787.42	4070282.25	5.07E-08	4.35E-08	1.76E-09	0.00E+00	9.60E-08	7.73E-09	6.71E-09	2.67E-10	0.00E+00	1.47E-08	3.92E-09	2.93E-09	9.67E-11	0.00E+00	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1063	762788.15	4070257.5	5.62E-08	4.82E-08	1.95E-09	0.00E+00	1.06E-07	8.56E-09	7.43E-09	2.95E-10	0.00E+00	1.63E-08	4.34E-09	3.24E-09	1.07E-10	0.00E+00	7.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1064	762788.88	4070232.76	6.23E-08	5.34E-08	2.16E-09	0.00E+00	1.18E-07	9.50E-09	8.24E-09	3.28E-10	0.00E+00	1.81E-08	4.82E-09	3.60E-09	1.19E-10	0.00E+00	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1065	762789.61	4070208.02	6.94E-08	5.95E-08	2.41E-09	0.00E+00	1.31E-07	1.06E-08	9.17E-09	3.65E-10	0.00E+00	2.01E-08	5.36E-09	4.00E-09	1.32E-10	0.00E+00	9.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1066	762790.34	4070183.28	7.74E-08	6.64E-08	2.69E-09	0.00E+00	1.47E-07	1.18E-08	1.02E-08	4.07E-10	0.00E+00	2.24E-08	5.98E-09	4.47E-09	1.48E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1067	762791.07	4070158.53	8.65E-08	7.41E-08	3.00E-09	0.00E+00	1.64E-07	1.32E-08	1.14E-08	4.55E-10	0.00E+00	2.51E-08	6.68E-09	4.99E-09	1.65E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1068	762791.8	4070133.79	9.61E-08	8.24E-08	3.33E-09	0.00E+00	1.82E-07	1.46E-08	1.27E-08	5.05E-10	0.00E+00	2.78E-08	7.43E-09	5.54E-09	1.83E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1069	762792.53	4070109.05	1.07E-07	9.15E-08	3.71E-09	0.00E+00	2.02E-07	1.63E-08	1.41E-08	5.62E-10	0.00E+00	3.09E-08	8.25E-09	6.16E-09	2.04E-10	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1070	762876.72	4070331.68	3.78E-08	3.24E-08	1.31E-09	0.00E+00	7.16E-08	5.76E-09	5.00E-09	1.99E-10	0.00E+00	1.10E-08	2.92E-09	2.18E-09	7.21E-11	0.00E+00	5.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1071	762866.8	4070353.41	3.52E-08	3.01E-08	1.22E-09	0.00E+00	6.65E-08	5.36E-09	4.65E-09	1.85E-10	0.00E+00	1.02E-08	2.72E-09	2.03E-09	6.70E-11	0.00E+00	4.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1072	762856.88	4070375.14	3.28E-08	2.81E-08	1.14E-09	0.00E+00	6.20E-08	5.00E-09	4.34E-09	1.72E-10	0.00E+00	9.50E-09	2.53E-09	1.89E-09	6.25E-11	0.00E+00	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1073	762846.96	4070396.88	3.08E-08	2.64E-08	1.07E-09	0.00E+00	5.82E-08	4.69E-09	4.07E-09	1.62E-10	0.00E+00	8.91E-09	2.38E-09	1.77E-09	5.86E-11	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1074	762837.04	4070418.61	2.91E-08	2.49E-08	1.01E-09	0.00E+00	5.50E-08	4.43E-09	3.85E-09	1.53E-10	0.00E+00	8.43E-09	2.25E-09	1.68E-09	5.54E-11	0.00E+00	3.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1075	762827.11	4070440.34	2.74E-08	2.35E-08	9.52E-10	0.00E+00	5.19E-08	4.18E-09	3.62E-09	1.44E-10	0.00E+00	7.95E-09	2.12E-09	1.58E-09	5.23E-11	0.00E+00	3.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1076	762817.19	4070462.07	2.59E-08	2.22E-08	8.99E-10	0.00E+00	4.90E-08	3.95E-09	3.43E-09	1.36E-10	0.00E+00	7.51E-09	2.00E-09	1.49E-09	4.94E-11	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1077	762807.27	4070483.81	2.45E-08	2.10E-08	8.51E-10	0.00E+00	4.64E-08	3.73E-09	3.24E-09	1.29E-10	0.00E+00	7.10E-09	1.89E-09	1.41E-09	4.67E-11	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1078	762797.35	4070505.54	2.32E-08	1.99E-08	8.04E-10	0.00E+00	4.38E-08	3.53E-09	3.06E-09	1.22E-10	0.00E+00	6.71E-09	1.79E-09	1.34E-09	4.42E-11	0.00E+00	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1079	762787.43	4070527.27	2.19E-08	1.88E-08	7.60E-10	0.00E+00	4.14E-08	3.34E-09	2.90E-09	1.15E-10	0.00E+00	6.35E-09	1.69E-09	1.26E-09	4.18E-11	0.00E+0						

1167	762446.98	4071038.27	9.91E-09	8.50E-09	3.44E-10	0.00E+00	1.88E-08	1.51E-09	1.31E-09	5.22E-11	0.00E+00	2.87E-09	7.66E-10	5.72E-10	1.89E-11	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	762424.31	4071046.42	9.97E-09	8.55E-09	3.46E-10	0.00E+00	1.89E-08	1.52E-09	1.32E-09	5.24E-11	0.00E+00	2.89E-09	7.70E-10	5.75E-10	1.90E-11	0.00E+00	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1169	762401.63	4071054.57	1.01E-08	8.62E-09	3.49E-10	0.00E+00	1.90E-08	1.53E-09	1.33E-09	5.29E-11	0.00E+00	2.91E-09	7.77E-10	5.80E-10	1.92E-11	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1170	762378.95	4071062.73	1.01E-08	8.68E-09	3.51E-10	0.00E+00	1.92E-08	1.54E-09	1.34E-09	5.33E-11	0.00E+00	2.93E-09	7.83E-10	5.84E-10	1.93E-11	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1171	762356.28	4071070.88	1.02E-08	8.74E-09	3.54E-10	0.00E+00	1.93E-08	1.55E-09	1.35E-09	5.36E-11	0.00E+00	2.96E-09	7.88E-10	5.88E-10	1.94E-11	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1172	762333.6	4071079.03	1.03E-08	8.79E-09	3.56E-10	0.00E+00	1.94E-08	1.56E-09	1.36E-09	5.39E-11	0.00E+00	2.97E-09	7.92E-10	5.91E-10	1.95E-11	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1173	762310.93	4071087.19	1.04E-08	8.88E-09	3.59E-10	0.00E+00	1.96E-08	1.58E-09	1.37E-09	5.45E-11	0.00E+00	3.00E-09	8.01E-10	5.97E-10	1.97E-11	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1174	762288.25	4071095.34	1.04E-08	8.94E-09	3.62E-10	0.00E+00	1.97E-08	1.59E-09	1.38E-09	5.49E-11	0.00E+00	3.02E-09	8.06E-10	6.02E-10	1.99E-11	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1175	762265.58	4071103.49	1.05E-08	9.00E-09	3.64E-10	0.00E+00	1.99E-08	1.60E-09	1.39E-09	5.52E-11	0.00E+00	3.04E-09	8.11E-10	6.06E-10	2.00E-11	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1176	762242.9	4071111.64	1.06E-08	9.05E-09	3.66E-10	0.00E+00	2.00E-08	1.61E-09	1.40E-09	5.55E-11	0.00E+00	3.06E-09	8.16E-10	6.09E-10	2.01E-11	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1177	762220.23	4071119.8	1.06E-08	9.11E-09	3.69E-10	0.00E+00	2.01E-08	1.62E-09	1.40E-09	5.59E-11	0.00E+00	3.08E-09	8.21E-10	6.13E-10	2.03E-11	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1178	762197.55	4071127.95	1.07E-08	9.18E-09	3.72E-10	0.00E+00	2.03E-08	1.63E-09	1.42E-09	5.64E-11	0.00E+00	3.10E-09	8.28E-10	6.18E-10	2.04E-11	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1179	762174.88	4071136.1	1.08E-08	9.23E-09	3.74E-10	0.00E+00	2.04E-08	1.64E-09	1.42E-09	5.66E-11	0.00E+00	3.12E-09	8.32E-10	6.21E-10	2.05E-11	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1180	762152.2	4071144.26	1.09E-08	9.32E-09	3.77E-10	0.00E+00	2.06E-08	1.66E-09	1.44E-09	5.72E-11	0.00E+00	3.15E-09	8.40E-10	6.27E-10	2.07E-11	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1181	762129.53	4071152.41	1.10E-08	9.41E-09	3.81E-10	0.00E+00	2.08E-08	1.67E-09	1.45E-09	5.78E-11	0.00E+00	3.18E-09	8.49E-10	6.33E-10	2.09E-11	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1182	762106.85	4071160.56	1.11E-08	9.50E-09	3.85E-10	0.00E+00	2.10E-08	1.69E-09	1.47E-09	5.83E-11	0.00E+00	3.21E-09	8.57E-10	6.39E-10	2.11E-11	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1183	762084.18	4071168.71	1.12E-08	9.61E-09	3.89E-10	0.00E+00	2.12E-08	1.71E-09	1.48E-09	5.90E-11	0.00E+00	3.25E-09	8.66E-10	6.47E-10	2.14E-11	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1184	762061.5	4071176.87	1.14E-08	9.78E-09	3.96E-10	0.00E+00	2.16E-08	1.74E-09	1.51E-09	6.00E-11	0.00E+00	3.31E-09	8.81E-10	6.58E-10	2.17E-11	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1185	762986.6	4070312.9	3.70E-08	3.17E-08	1.28E-09	0.00E+00	6.99E-08	5.63E-09	4.89E-09	1.94E-10	0.00E+00	1.07E-08	2.86E-09	2.13E-09	7.05E-11	0.00E+00	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1186	762987.33	4070288.15	4.02E-08	3.45E-08	1.40E-09	0.00E+00	7.61E-08	6.13E-09	5.32E-09	2.12E-10	0.00E+00	1.17E-08	3.11E-09	2.32E-09	7.67E-11	0.00E+00	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1187	762988.06	4070263.41	4.38E-08	3.76E-08	1.52E-09	0.00E+00	8.29E-08	6.68E-09	5.79E-09	2.31E-10	0.00E+00	1.27E-08	3.39E-09	2.53E-09	8.35E-11	0.00E+00	6.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1188	762988.79	4070238.67	4.78E-08	4.10E-08	1.66E-09	0.00E+00	9.04E-08	7.28E-09	6.32E-09	2.51E-10	0.00E+00	1.39E-08	3.69E-09	2.76E-09	9.11E-11	0.00E+00	6.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1189	762989.52	4070213.93	5.22E-08	4.48E-08	1.81E-09	0.00E+00	9.88E-08	7.95E-09	6.90E-09	2.75E-10	0.00E+00	1.51E-08	4.03E-09	3.01E-09	9.95E-11	0.00E+00	7.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1190	762990.25	4070189.18	5.67E-08	4.86E-08	1.97E-09	0.00E+00	1.07E-07	8.64E-09	7.50E-09	2.98E-10	0.00E+00	1.64E-08	4.38E-09	3.27E-09	1.08E-10	0.00E+00	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1191	762990.98	4070164.44	6.15E-08	5.27E-08	2.13E-09	0.00E+00	1.16E-07	9.36E-09	8.12E-09	3.23E-10	0.00E+00	1.78E-08	4.75E-09	3.54E-09	1.17E-10	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1192	762991.72	4070139.7	6.70E-08	5.75E-08	2.33E-09	0.00E+00	1.27E-07	1.02E-08	8.86E-09	3.53E-10	0.00E+00	1.94E-08	5.18E-09	3.87E-09	1.28E-10	0.00E+00	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1193	762992.45	4070114.96	7.32E-08	6.28E-08	2.54E-09	0.00E+00	1.39E-07	1.12E-08	9.68E-09	3.85E-10	0.00E+00	2.12E-08	5.66E-09	4.22E-09	1.40E-10	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1194	763076.48	4070337.92	3.20E-08	2.75E-08	1.11E-09	0.00E+00	6.06E-08	4.88E-09	4.23E-09	1.68E-10	0.00E+00	9.28E-09	2.48E-09	1.85E-09	6.11E-11	0.00E+00	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1195	763066.4	4070360	3.01E-08	2.58E-08	1.04E-09	0.00E+00	5.69E-08	4.58E-09	3.97E-09	1.58E-10	0.00E+00	8.71E-09	2.32E-09	1.73E-09	5.73E-11	0.00E+00	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1196	763056.33	4070382.07	2.82E-08	2.42E-08	9.79E-10	0.00E+00	5.34E-08	4.30E-09	3.73E-09	1.48E-10	0.00E+00	8.18E-09	2.18E-09	1.63E-09	5.38E-11	0.00E+00	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1197	763046.25	4070404.14	2.65E-08	2.27E-08	9.20E-10	0.00E+00	5.01E-08	4.04E-09	3.50E-09	1.39E-10	0.00E+00	7.68E-09	2.05E-09	1.53E-09	5.05E-11	0.00E+00	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1198	763036.17	4070426.21	2.50E-08	2.14E-08	8.66E-10	0.00E+00	4.72E-08	3.80E-09	3.30E-09	1.31E-10	0.00E+00	7.23E-09	1.93E-09	1.44E-09	4.76E-11	0.00E+00	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1199	763026.1	4070448.29	2.36E-08	2.02E-08	8.17E-10	0.00E+00	4.46E-08	3.59E-09	3.11E-09	1.24E-10	0.00E+00	6.83E-09	1.82E-09	1.36E-09	4.49E-11	0.00E+00	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1200	763016.02	4070470.36	2.23E-08	1.91E-08	7.74E-10	0.00E+00	4.22E-08	3.40E-09	2.95E-09	1.17E-10	0.00E+00	6.47E-09	1.72E-09	1.29E-09	4.25E-11	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1201	763005.95	4070492.43	2.12E-08	1.82E-08	7.37E-10	0.00E+00	4.02E-08	3.23E-09	2.81E-09	1.12E-10	0.00E+00	6.15E-09	1.64E-09	1.22E-09	4.05E-11	0.00E+00	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1202	762995.87	4070514.5	2.03E-08	1.74E-08	7.05E-10	0.00E+00	3.84E-08	3.09E-09	2.68E-09	1.07E-10	0.00E+00	5.89E-09	1.57E-09	1.17E-09	3.87E-11	0.00E+00	2.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1203	762985.79	4070536.58	1.94E-08	1.66E-08	6.73E-10	0.00E+00	3.67E-08	2.96E-09	2.56E-09	1.02E-10	0.00E+00	5.62E-09	1.50E-09	1.12E-09	3.70E-11	0.00E+00	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1204	762975.72	4070558.65	1.86E-08	1.59E-08	6.44E-10	0.00E+00	3.51E-08	2.83E-09	2.45E-09	9.76E-11	0.00E+00	5.38E-09	1.43E-09	1.07E-09	3.54E-11	0.00E+00	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1205	762965.64	4070580.72	1.77E-08	1.52E-08	6.16E-10	0.00E+00	3.36E-08	2.70E-09	2.34E-09	9.33E-11	0.00E+00	5.14E-09	1.37E-09	1.02E-09	3.38E-11	0.00E+00	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1206	762955.56	4070602.79	1.70E-08	1.46E-08	5.90E-10	0.00E+00	3.22E-08	2.59E-09	2.25E-09	8.95E-11	0.00E+00	4.93E-09	1.31E-09	1.01E-09	3.24E-11	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1207	762945.49	4070624.87	1.62E-08	1.39E-08	5.63E-10	0.00E+00	3.07E-08	2.47E-09	2.15E-09	8.54E-11	0.00E+00	4.70E-09	1.25E-09	9.36E-10	3.09E-11	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1208	762935.41	4070646.94	1.54E-08	1.32E-08	5.36E-10	0.00E+00	2.92E-08	2.35E-09	2.04E-09	8.13E-11	0.00E+00	4.48E-09	1.19E-09	8.91E-10	2.94E-11	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1209	762925.34	4070669.01	1.48E-08	1.27E-08	5.12E-10	0.00E+00	2.79E-08	2.25E-09	1.95E-09	7.76E-11	0.00E+00	4.28E-09	1.14E-09	8.51E-10	2.81E-11	0.00E+00						

1297	762852.1	4071051.36	7.73E-09	6.63E-09	2.68E-10	0.00E+00	1.46E-08	1.18E-09	1.02E-09	4.07E-11	0.00E+00	2.24E-09	5.98E-10	4.46E-10	1.47E-11	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	762841.97	4071073.56	7.55E-09	6.48E-09	2.62E-10	0.00E+00	1.43E-08	1.15E-09	9.99E-10	3.97E-11	0.00E+00	2.19E-09	5.84E-10	4.36E-10	1.44E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1299	762808.87	4071104.02	7.38E-09	6.33E-09	2.56E-10	0.00E+00	1.40E-08	1.12E-09	9.75E-10	3.88E-11	0.00E+00	2.14E-09	5.70E-10	4.26E-10	1.41E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1300	762785.91	4071112.27	7.36E-09	6.31E-09	2.55E-10	0.00E+00	1.39E-08	1.12E-09	9.73E-10	3.87E-11	0.00E+00	2.13E-09	5.69E-10	4.25E-10	1.40E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1301	762762.94	4071120.53	7.38E-09	6.33E-09	2.56E-10	0.00E+00	1.40E-08	1.12E-09	9.75E-10	3.88E-11	0.00E+00	2.14E-09	5.70E-10	4.26E-10	1.41E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1302	762739.98	4071128.79	7.41E-09	6.36E-09	2.57E-10	0.00E+00	1.40E-08	1.13E-09	9.80E-10	3.90E-11	0.00E+00	2.15E-09	5.73E-10	4.28E-10	1.41E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1303	762717.02	4071137.04	7.47E-09	6.40E-09	2.59E-10	0.00E+00	1.41E-08	1.14E-09	9.87E-10	3.93E-11	0.00E+00	2.16E-09	5.77E-10	4.31E-10	1.42E-11	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1304	762694.05	4071145.3	7.50E-09	6.43E-09	2.60E-10	0.00E+00	1.42E-08	1.14E-09	9.92E-10	3.95E-11	0.00E+00	2.17E-09	5.80E-10	4.33E-10	1.43E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1305	762671.09	4071153.55	7.55E-09	6.48E-09	2.62E-10	0.00E+00	1.43E-08	1.15E-09	9.99E-10	3.97E-11	0.00E+00	2.19E-09	5.84E-10	4.36E-10	1.44E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1306	762648.13	4071161.81	7.59E-09	6.51E-09	2.63E-10	0.00E+00	1.44E-08	1.16E-09	1.00E-09	3.99E-11	0.00E+00	2.20E-09	5.87E-10	4.38E-10	1.45E-11	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1307	762625.17	4071170.07	7.63E-09	6.54E-09	2.65E-10	0.00E+00	1.44E-08	1.16E-09	1.01E-09	4.01E-11	0.00E+00	2.21E-09	5.89E-10	4.40E-10	1.45E-11	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1308	762602.2	4071178.32	7.59E-09	6.51E-09	2.63E-10	0.00E+00	1.44E-08	1.16E-09	1.00E-09	3.99E-11	0.00E+00	2.20E-09	5.87E-10	4.38E-10	1.45E-11	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1309	762579.24	4071186.58	7.66E-09	6.57E-09	2.66E-10	0.00E+00	1.45E-08	1.17E-09	1.01E-09	4.03E-11	0.00E+00	2.22E-09	5.92E-10	4.42E-10	1.46E-11	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1310	762556.28	4071194.84	7.68E-09	6.58E-09	2.67E-10	0.00E+00	1.45E-08	1.17E-09	1.02E-09	4.04E-11	0.00E+00	2.23E-09	5.94E-10	4.43E-10	1.46E-11	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1311	762533.31	4071203.09	7.70E-09	6.60E-09	2.67E-10	0.00E+00	1.46E-08	1.17E-09	1.02E-09	4.05E-11	0.00E+00	2.23E-09	5.95E-10	4.44E-10	1.47E-11	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1312	762510.35	4071211.35	7.71E-09	6.61E-09	2.68E-10	0.00E+00	1.46E-08	1.18E-09	1.02E-09	4.06E-11	0.00E+00	2.24E-09	5.96E-10	4.45E-10	1.47E-11	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1313	762487.39	4071219.61	7.77E-09	6.66E-09	2.70E-10	0.00E+00	1.47E-08	1.18E-09	1.03E-09	4.09E-11	0.00E+00	2.25E-09	6.00E-10	4.48E-10	1.48E-11	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1314	762464.42	4071227.86	7.77E-09	6.66E-09	2.70E-10	0.00E+00	1.47E-08	1.18E-09	1.03E-09	4.09E-11	0.00E+00	2.25E-09	6.00E-10	4.48E-10	1.48E-11	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1315	762441.46	4071236.12	7.80E-09	6.69E-09	2.71E-10	0.00E+00	1.48E-08	1.19E-09	1.03E-09	4.11E-11	0.00E+00	2.26E-09	6.03E-10	4.50E-10	1.49E-11	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1316	762418.5	4071244.37	7.84E-09	6.72E-09	2.72E-10	0.00E+00	1.48E-08	1.19E-09	1.04E-09	4.12E-11	0.00E+00	2.27E-09	6.06E-10	4.52E-10	1.49E-11	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1317	762395.53	4071252.63	7.91E-09	6.78E-09	2.75E-10	0.00E+00	1.50E-08	1.21E-09	1.05E-09	4.16E-11	0.00E+00	2.29E-09	6.11E-10	4.56E-10	1.51E-11	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1318	762372.57	4071260.89	7.98E-09	6.84E-09	2.77E-10	0.00E+00	1.51E-08	1.22E-09	1.06E-09	4.20E-11	0.00E+00	2.31E-09	6.17E-10	4.60E-10	1.52E-11	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1319	762349.61	4071269.14	8.02E-09	6.87E-09	2.78E-10	0.00E+00	1.52E-08	1.22E-09	1.06E-09	4.22E-11	0.00E+00	2.32E-09	6.20E-10	4.62E-10	1.53E-11	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1320	762326.65	4071277.4	8.07E-09	6.92E-09	2.80E-10	0.00E+00	1.53E-08	1.23E-09	1.07E-09	4.24E-11	0.00E+00	2.34E-09	6.24E-10	4.65E-10	1.54E-11	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1321	762303.68	4071285.66	8.12E-09	6.96E-09	2.82E-10	0.00E+00	1.54E-08	1.24E-09	1.07E-09	4.27E-11	0.00E+00	2.35E-09	6.28E-10	4.69E-10	1.55E-11	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1322	762280.72	4071293.91	8.16E-09	6.99E-09	2.83E-10	0.00E+00	1.54E-08	1.24E-09	1.08E-09	4.29E-11	0.00E+00	2.36E-09	6.31E-10	4.71E-10	1.56E-11	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1323	762257.76	4071302.17	8.19E-09	7.03E-09	2.84E-10	0.00E+00	1.55E-08	1.25E-09	1.08E-09	4.31E-11	0.00E+00	2.37E-09	6.33E-10	4.73E-10	1.56E-11	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1324	762234.79	4071310.43	8.23E-09	7.06E-09	2.86E-10	0.00E+00	1.56E-08	1.25E-09	1.09E-09	4.33E-11	0.00E+00	2.38E-09	6.36E-10	4.75E-10	1.57E-11	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1325	762211.83	4071318.68	8.28E-09	7.10E-09	2.87E-10	0.00E+00	1.57E-08	1.26E-09	1.09E-09	4.36E-11	0.00E+00	2.40E-09	6.40E-10	4.78E-10	1.58E-11	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1326	762188.87	4071326.94	8.34E-09	7.15E-09	2.89E-10	0.00E+00	1.58E-08	1.27E-09	1.10E-09	4.38E-11	0.00E+00	2.42E-09	6.44E-10	4.81E-10	1.59E-11	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1327	762165.9	4071335.2	8.41E-09	7.21E-09	2.92E-10	0.00E+00	1.59E-08	1.28E-09	1.11E-09	4.42E-11	0.00E+00	2.44E-09	6.50E-10	4.85E-10	1.60E-11	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1328	762142.94	4071343.45	8.49E-09	7.28E-09	2.95E-10	0.00E+00	1.61E-08	1.29E-09	1.12E-09	4.47E-11	0.00E+00	2.46E-09	6.57E-10	4.90E-10	1.62E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1329	762119.98	4071351.71	8.58E-09	7.36E-09	2.98E-10	0.00E+00	1.62E-08	1.31E-09	1.13E-09	4.52E-11	0.00E+00	2.49E-09	6.63E-10	4.95E-10	1.64E-11	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1330	762097.01	4071359.96	8.67E-09	7.44E-09	3.01E-10	0.00E+00	1.64E-08	1.32E-09	1.15E-09	4.56E-11	0.00E+00	2.51E-09	6.70E-10	5.00E-10	1.65E-11	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1331	762074.05	4071368.22	8.78E-09	7.53E-09	3.05E-10	0.00E+00	1.66E-08	1.34E-09	1.16E-09	4.62E-11	0.00E+00	2.54E-09	6.79E-10	5.06E-10	1.67E-11	0.00E+00	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1332	762051.09	4071376.48	8.90E-09	7.63E-09	3.09E-10	0.00E+00	1.68E-08	1.36E-09	1.18E-09	4.68E-11	0.00E+00	2.58E-09	6.88E-10	5.14E-10	1.70E-11	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1333	763186.51	4070318.81	3.15E-08	2.70E-08	1.09E-09	0.00E+00	5.95E-08	4.79E-09	4.16E-09	1.66E-10	0.00E+00	9.12E-09	2.43E-09	1.81E-09	6.00E-11	0.00E+00	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1334	763187.24	4070294.06	3.39E-08	2.91E-08	1.18E-09	0.00E+00	6.41E-08	5.16E-09	4.48E-09	1.78E-10	0.00E+00	9.82E-09	2.62E-09	1.95E-09	6.46E-11	0.00E+00	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1335	763187.97	4070269.32	3.66E-08	3.14E-08	1.27E-09	0.00E+00	6.93E-08	5.58E-09	4.84E-09	1.93E-10	0.00E+00	1.06E-08	2.83E-09	2.11E-09	6.98E-11	0.00E+00	5.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1336	763188.7	4070244.58	3.95E-08	3.39E-08	1.37E-09	0.00E+00	7.47E-08	6.02E-09	5.22E-09	2.08E-10	0.00E+00	1.14E-08	3.05E-09	2.28E-09	7.53E-11	0.00E+00	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1337	763189.43	4070219.84	4.27E-08	3.66E-08	1.48E-09	0.00E+00	8.07E-08	6.50E-09	5.64E-09	2.24E-10	0.00E+00	1.24E-08	3.30E-09	2.46E-09	8.13E-11	0.00E+00	5.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1338	763190.17	4070195.09	4.61E-08	3.96E-08	1.60E-09	0.00E+00	8.73E-08	7.03E-09	6.10E-09	2.43E-10	0.00E+00	1.34E-08	3.57E-09	2.66E-09	8.80E-11	0.00E+00	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1339	763190.9	4070170.35	4.98E-08	4.27E-08	1.73E-09	0.00E+00	9.43E-08	7.59E-09	6.59E-09	2.62E-10	0.00E+00	1.44E-08	3.85E-09	2.87E-09	9.50E-11	0.00						

1427	762254.48	4070546.05	4.00E-08	3.43E-08	1.39E-09	0.00E+00	7.57E-08	6.09E-09	5.29E-09	2.10E-10	0.00E+00	1.16E-08	3.09E-09	2.31E-09	7.62E-11	0.00E+00	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	762252.24	4070596	3.33E-08	2.86E-08	1.16E-09	0.00E+00	6.30E-08	5.07E-09	4.40E-09	1.75E-10	0.00E+00	9.65E-09	2.57E-09	1.92E-09	6.35E-11	0.00E+00	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1429	762247.78	4070695.9	2.43E-08	2.09E-08	8.45E-10	0.00E+00	4.61E-08	3.71E-09	3.22E-09	1.28E-10	0.00E+00	7.06E-09	1.88E-09	1.40E-09	4.64E-11	0.00E+00	3.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1430	762243.31	4070795.8	1.89E-08	1.62E-08	6.56E-10	0.00E+00	3.58E-08	2.88E-09	2.50E-09	9.95E-11	0.00E+00	5.48E-09	1.46E-09	1.09E-09	3.60E-11	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1431	762125.26	4070890.62	1.78E-08	1.53E-08	6.17E-10	0.00E+00	3.37E-08	2.71E-09	2.35E-09	9.36E-11	0.00E+00	5.16E-09	1.37E-09	1.03E-09	3.39E-11	0.00E+00	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1432	762147.98	4070891.63	1.72E-08	1.47E-08	5.96E-10	0.00E+00	3.25E-08	2.62E-09	2.27E-09	9.03E-11	0.00E+00	4.98E-09	1.33E-09	9.90E-10	3.27E-11	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1433	762170.69	4070892.65	1.66E-08	1.42E-08	5.76E-10	0.00E+00	3.14E-08	2.53E-09	2.19E-09	8.72E-11	0.00E+00	4.81E-09	1.28E-09	9.57E-10	3.16E-11	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1434	762193.41	4070893.67	1.61E-08	1.38E-08	5.59E-10	0.00E+00	3.05E-08	2.45E-09	2.13E-09	8.47E-11	0.00E+00	4.67E-09	1.24E-09	9.29E-10	3.07E-11	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1435	762216.13	4070894.68	1.57E-08	1.35E-08	5.46E-10	0.00E+00	2.98E-08	2.40E-09	2.08E-09	8.28E-11	0.00E+00	4.56E-09	1.22E-09	9.07E-10	3.00E-11	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1436	762238.84	4070895.7	1.53E-08	1.31E-08	5.31E-10	0.00E+00	2.90E-08	2.33E-09	2.02E-09	8.05E-11	0.00E+00	4.44E-09	1.18E-09	8.83E-10	2.92E-11	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1437	762120.8	4070990.52	1.45E-08	1.24E-08	5.03E-10	0.00E+00	2.74E-08	2.21E-09	1.92E-09	7.62E-11	0.00E+00	4.20E-09	1.12E-09	8.36E-10	2.76E-11	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1438	762143.51	4070991.53	1.40E-08	1.20E-08	4.87E-10	0.00E+00	2.65E-08	2.14E-09	1.85E-09	7.38E-11	0.00E+00	4.07E-09	1.08E-09	8.09E-10	2.67E-11	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1439	762166.23	4070992.55	1.37E-08	1.17E-08	4.75E-10	0.00E+00	2.59E-08	2.08E-09	1.81E-09	7.19E-11	0.00E+00	3.96E-09	1.06E-09	7.89E-10	2.61E-11	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1440	762188.95	4070993.57	1.34E-08	1.15E-08	4.64E-10	0.00E+00	2.53E-08	2.04E-09	1.77E-09	7.03E-11	0.00E+00	3.88E-09	1.03E-09	7.71E-10	2.55E-11	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1441	762211.66	4070994.58	1.31E-08	1.12E-08	4.53E-10	0.00E+00	2.47E-08	1.99E-09	1.73E-09	6.87E-11	0.00E+00	3.78E-09	1.01E-09	7.53E-10	2.49E-11	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1442	762116.33	4071090.42	1.23E-08	1.05E-08	4.26E-10	0.00E+00	2.32E-08	1.87E-09	1.62E-09	6.46E-11	0.00E+00	3.56E-09	9.49E-10	7.08E-10	2.34E-11	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1443	762139.05	4071091.43	1.20E-08	1.03E-08	4.15E-10	0.00E+00	2.27E-08	1.82E-09	1.58E-09	6.30E-11	0.00E+00	3.47E-09	9.25E-10	6.91E-10	2.28E-11	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1444	762161.76	4071092.45	1.17E-08	1.00E-08	4.05E-10	0.00E+00	2.21E-08	1.78E-09	1.54E-09	6.14E-11	0.00E+00	3.38E-09	9.02E-10	6.73E-10	2.22E-11	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1445	762184.48	4071093.47	1.14E-08	9.78E-09	3.96E-10	0.00E+00	2.16E-08	1.74E-09	1.51E-09	6.00E-11	0.00E+00	3.31E-09	8.81E-10	6.58E-10	2.17E-11	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1446	762207.2	4071094.48	1.12E-08	9.56E-09	3.87E-10	0.00E+00	2.11E-08	1.70E-09	1.47E-09	5.87E-11	0.00E+00	3.23E-09	8.62E-10	6.43E-10	2.13E-11	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1447	762111.86	4071190.32	1.06E-08	9.06E-09	3.67E-10	0.00E+00	2.00E-08	1.61E-09	1.40E-09	5.56E-11	0.00E+00	3.06E-09	8.17E-10	6.10E-10	2.01E-11	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1448	762134.58	4071191.33	1.03E-08	8.85E-09	3.58E-10	0.00E+00	1.95E-08	1.57E-09	1.36E-09	5.43E-11	0.00E+00	2.99E-09	7.98E-10	5.95E-10	1.97E-11	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1449	762157.3	4071192.35	1.01E-08	8.65E-09	3.50E-10	0.00E+00	1.91E-08	1.54E-09	1.33E-09	5.31E-11	0.00E+00	2.92E-09	7.80E-10	5.82E-10	1.92E-11	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1450	762180.01	4071193.37	9.86E-09	8.45E-09	3.42E-10	0.00E+00	1.87E-08	1.50E-09	1.30E-09	5.19E-11	0.00E+00	2.86E-09	7.62E-10	5.69E-10	1.88E-11	0.00E+00	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1451	762202.73	4071194.38	9.65E-09	8.27E-09	3.35E-10	0.00E+00	1.83E-08	1.47E-09	1.28E-09	5.08E-11	0.00E+00	2.80E-09	7.46E-10	5.57E-10	1.84E-11	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1452	762107.4	4071290.22	9.31E-09	7.98E-09	3.23E-10	0.00E+00	1.76E-08	1.42E-09	1.23E-09	4.90E-11	0.00E+00	2.70E-09	7.20E-10	5.37E-10	1.77E-11	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1453	762130.11	4071291.23	9.10E-09	7.80E-09	3.16E-10	0.00E+00	1.72E-08	1.39E-09	1.20E-09	4.79E-11	0.00E+00	2.64E-09	7.03E-10	5.25E-10	1.73E-11	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1454	762152.83	4071292.25	8.92E-09	7.65E-09	3.10E-10	0.00E+00	1.69E-08	1.36E-09	1.18E-09	4.69E-11	0.00E+00	2.59E-09	6.89E-10	5.15E-10	1.70E-11	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1455	762175.55	4071293.27	8.74E-09	7.50E-09	3.03E-10	0.00E+00	1.65E-08	1.33E-09	1.16E-09	4.60E-11	0.00E+00	2.53E-09	6.76E-10	5.04E-10	1.67E-11	0.00E+00	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1456	762198.26	4071294.28	8.58E-09	7.36E-09	2.98E-10	0.00E+00	1.62E-08	1.31E-09	1.13E-09	4.52E-11	0.00E+00	2.49E-09	6.63E-10	4.95E-10	1.64E-11	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1457	762322.71	4070073.24	3.30E-06	2.83E-06	1.15E-07	0.00E+00	6.24E-06	5.03E-07	4.36E-07	1.74E-08	0.00E+00	9.56E-07	2.55E-07	1.90E-07	6.29E-09	0.00E+00	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1458	762323.14	4070048.54	5.61E-06	4.81E-06	1.95E-07	0.00E+00	1.06E-05	8.54E-07	7.41E-07	2.95E-08	0.00E+00	1.62E-06	4.33E-07	3.23E-07	1.07E-08	0.00E+00	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1459	762323.57	4070023.84	7.47E-06	6.40E-06	2.59E-07	0.00E+00	1.41E-05	1.14E-06	9.88E-07	3.93E-08	0.00E+00	2.16E-06	5.77E-07	4.31E-07	1.42E-08	0.00E+00	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1460	762324	4069999.14	8.69E-06	7.45E-06	3.01E-07	0.00E+00	1.64E-05	1.32E-06	1.15E-06	4.57E-08	0.00E+00	2.52E-06	6.71E-07	5.01E-07	1.66E-08	0.00E+00	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1461	762324.43	4069974.44	9.57E-06	8.20E-06	3.32E-07	0.00E+00	1.81E-05	1.46E-06	1.26E-06	5.03E-08	0.00E+00	2.77E-06	7.39E-07	5.52E-07	1.82E-08	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1462	762324.86	4069949.74	1.02E-05	8.71E-06	3.52E-07	0.00E+00	1.92E-05	1.55E-06	1.34E-06	5.34E-08	0.00E+00	2.94E-06	7.85E-07	5.86E-07	1.94E-08	0.00E+00	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1463	762325.29	4069925.04	1.06E-05	9.07E-06	3.67E-07	0.00E+00	2.00E-05	1.61E-06	1.40E-06	5.56E-08	0.00E+00	3.06E-06	8.17E-07	6.10E-07	2.02E-08	0.00E+00	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1464	762325.72	4069900.34	1.05E-05	8.98E-06	3.63E-07	0.00E+00	1.98E-05	1.60E-06	1.38E-06	5.51E-08	0.00E+00	3.03E-06	8.09E-07	6.04E-07	2.00E-08	0.00E+00	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1465	762347.71	4070073.68	1.79E-06	1.53E-06	6.20E-08	0.00E+00	3.38E-06	2.72E-07	2.36E-07	9.40E-09	0.00E+00	5.18E-07	1.38E-07	1.03E-07	3.41E-09	0.00E+00	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1466	762348.14	4070048.98	2.79E-06	2.39E-06	9.67E-08	0.00E+00	5.27E-06	4.25E-07	3.68E-07	1.47E-08	0.00E+00	8.08E-07	2.15E-07	1.61E-07	5.31E-09	0.00E+00	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1467	762348.57	4070024.28	3.96E-06	3.40E-06	1.38E-07	0.00E+00	7.50E-06	6.04E-07	5.24E-07	2.09E-08	0.00E+00	1.15E-06	3.06E-07	2.29E-07	7.56E-09	0.00E+00	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1468	762349	4069999.58	5.04E-06	4.32E-06	1.75E-07	0.00E+00	9.53E-06	7.67E-07	6.66E-07	2.65E-08	0.00E+00	1.46E-06	3.89E-07	2.90E-07	9.60E-09	0.00E+00	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1469	762349.43	4069974.88	5.90E-06	5.06E-06	2.05E-07	0.00E+00	1.12E-05	8.99E-07	7.80E-07	3.10E-08	0.00E+00	1.71E-06	4.56E-07	3.40E-07	1.12E-08	0.00E+00						

1557	762650.67	4069905.98	4.77E-07	4.09E-07	1.66E-08	0.00E+00	9.02E-07	7.27E-08	6.31E-08	2.51E-09	0.00E+00	1.38E-07	3.69E-08	2.75E-08	9.09E-10	0.00E+00	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	762668.15	4070170.11	1.07E-07	9.15E-08	3.71E-09	0.00E+00	2.02E-07	1.63E-08	1.41E-08	5.62E-10	0.00E+00	3.09E-08	8.25E-09	6.16E-09	2.04E-10	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1559	762610	4070301.44	6.04E-08	5.18E-08	2.10E-09	0.00E+00	1.14E-07	9.20E-09	7.98E-09	3.18E-10	0.00E+00	1.75E-08	4.67E-09	3.48E-09	1.15E-10	0.00E+00	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1560	762600.3	4070323.33	5.52E-08	4.73E-08	1.91E-09	0.00E+00	1.04E-07	8.41E-09	7.29E-09	2.90E-10	0.00E+00	1.60E-08	4.26E-09	3.18E-09	1.05E-10	0.00E+00	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1561	762590.61	4070345.21	5.07E-08	4.35E-08	1.76E-09	0.00E+00	9.59E-08	7.72E-09	6.70E-09	2.67E-10	0.00E+00	1.47E-08	3.92E-09	2.92E-09	9.66E-11	0.00E+00	6.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1562	762580.92	4070367.1	4.69E-08	4.02E-08	1.63E-09	0.00E+00	8.87E-08	7.14E-09	6.19E-09	2.46E-10	0.00E+00	1.36E-08	3.62E-09	2.70E-09	8.93E-11	0.00E+00	6.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1563	762391.66	4070455.53	4.24E-08	3.63E-08	1.47E-09	0.00E+00	8.02E-08	6.46E-09	5.60E-09	2.23E-10	0.00E+00	1.23E-08	3.28E-09	2.45E-09	8.08E-11	0.00E+00	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1564	762697.66	4070079.75	1.57E-07	1.35E-07	5.44E-09	0.00E+00	2.97E-07	2.39E-08	2.07E-08	8.25E-10	0.00E+00	4.55E-08	1.21E-08	9.05E-09	2.99E-10	0.00E+00	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1565	762698.09	4070055.05	1.78E-07	1.52E-07	6.16E-09	0.00E+00	3.36E-07	2.71E-08	2.35E-08	9.34E-10	0.00E+00	5.15E-08	1.37E-08	1.02E-08	3.39E-10	0.00E+00	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1566	762698.52	4070030.35	2.01E-07	1.73E-07	6.98E-09	0.00E+00	3.81E-07	3.07E-08	2.66E-08	1.06E-09	0.00E+00	5.83E-08	1.55E-08	1.16E-08	3.84E-10	0.00E+00	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1567	762698.94	4070005.65	2.28E-07	1.95E-07	7.90E-09	0.00E+00	4.31E-07	3.47E-08	3.01E-08	1.20E-09	0.00E+00	6.60E-08	1.76E-08	1.31E-08	4.34E-10	0.00E+00	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1568	762699.37	4069980.95	2.59E-07	2.22E-07	8.99E-09	0.00E+00	4.90E-07	3.94E-08	3.42E-08	1.36E-09	0.00E+00	7.50E-08	2.00E-08	1.49E-08	4.94E-10	0.00E+00	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1569	762699.8	4069956.25	2.92E-07	2.50E-07	1.01E-08	0.00E+00	5.52E-07	4.45E-08	3.86E-08	1.54E-09	0.00E+00	8.46E-08	2.26E-08	1.68E-08	5.56E-10	0.00E+00	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1570	762700.23	4069931.55	3.28E-07	2.82E-07	1.14E-08	0.00E+00	6.21E-07	5.00E-08	4.34E-08	1.73E-09	0.00E+00	9.52E-08	2.54E-08	1.89E-08	6.26E-10	0.00E+00	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1571	762700.66	4069906.85	3.68E-07	3.16E-07	1.28E-08	0.00E+00	6.97E-07	5.61E-08	4.87E-08	1.94E-09	0.00E+00	1.07E-07	2.85E-08	2.12E-08	7.02E-10	0.00E+00	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1572	762737.77	4070126.66	1.12E-07	9.58E-08	3.88E-09	0.00E+00	2.11E-07	1.70E-08	1.48E-08	5.88E-10	0.00E+00	3.24E-08	8.64E-09	6.45E-09	2.13E-10	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1573	762728.32	4070148	1.04E-07	8.89E-08	3.60E-09	0.00E+00	1.96E-07	1.58E-08	1.37E-08	5.45E-10	0.00E+00	3.00E-08	8.01E-09	5.98E-09	1.98E-10	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1574	762718.87	4070169.34	9.52E-08	8.16E-08	3.30E-09	0.00E+00	1.80E-07	1.45E-08	1.26E-08	5.01E-10	0.00E+00	2.76E-08	7.36E-09	5.49E-09	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1575	762662.17	4070297.38	5.70E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.68E-09	7.53E-09	3.00E-10	0.00E+00	1.65E-08	4.40E-09	3.29E-09	1.09E-10	0.00E+00	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1576	762652.72	4070318.72	5.23E-08	4.48E-08	1.82E-09	0.00E+00	9.90E-08	7.97E-09	6.91E-09	2.75E-10	0.00E+00	1.52E-08	4.04E-09	3.02E-09	9.97E-11	0.00E+00	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1577	762643.27	4070340.06	4.83E-08	4.14E-08	1.68E-09	0.00E+00	9.14E-08	7.36E-09	6.39E-09	2.54E-10	0.00E+00	1.40E-08	3.73E-09	2.79E-09	9.21E-11	0.00E+00	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1578	762633.82	4070361.4	4.45E-08	3.82E-08	1.55E-09	0.00E+00	8.42E-08	6.78E-09	5.88E-09	2.34E-10	0.00E+00	1.29E-08	3.44E-09	2.57E-09	8.49E-11	0.00E+00	6.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1579	762624.37	4070382.74	4.11E-08	3.52E-08	1.43E-09	0.00E+00	7.77E-08	6.26E-09	5.43E-09	2.16E-10	0.00E+00	1.19E-08	3.17E-09	2.37E-09	7.83E-11	0.00E+00	5.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1580	762614.92	4070404.08	3.80E-08	3.26E-08	1.32E-09	0.00E+00	7.19E-08	5.79E-09	5.02E-09	2.00E-10	0.00E+00	1.10E-08	2.94E-09	2.19E-09	7.24E-11	0.00E+00	5.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1581	762364.73	4070514.62	3.54E-08	3.04E-08	1.23E-09	0.00E+00	6.70E-08	5.40E-09	4.68E-09	1.86E-10	0.00E+00	1.03E-08	2.74E-09	2.04E-09	6.75E-11	0.00E+00	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1582	762747.22	4070105.32	1.20E-07	1.03E-07	4.18E-09	0.00E+00	2.28E-07	1.83E-08	1.59E-08	6.33E-10	0.00E+00	3.49E-08	9.30E-09	6.94E-09	2.29E-10	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1583	762747.65	4070080.62	1.35E-07	1.16E-07	4.69E-09	0.00E+00	2.56E-07	2.06E-08	1.79E-08	7.10E-10	0.00E+00	3.91E-08	1.04E-08	7.79E-09	2.57E-10	0.00E+00	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1584	762748.08	4070055.92	1.51E-07	1.30E-07	5.26E-09	0.00E+00	2.87E-07	2.31E-08	2.00E-08	7.97E-10	0.00E+00	4.39E-08	1.17E-08	8.74E-09	2.89E-10	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1585	762748.51	4070031.22	1.69E-07	1.45E-07	5.88E-09	0.00E+00	3.21E-07	2.58E-08	2.24E-08	8.91E-10	0.00E+00	4.91E-08	1.31E-08	9.77E-09	3.23E-10	0.00E+00	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1586	762748.94	4070006.52	1.89E-07	1.62E-07	6.57E-09	0.00E+00	3.58E-07	2.88E-08	2.50E-08	9.95E-10	0.00E+00	5.48E-08	1.46E-08	1.09E-08	3.61E-10	0.00E+00	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1587	762749.37	4069981.82	2.11E-07	1.81E-07	7.32E-09	0.00E+00	3.99E-07	3.21E-08	2.79E-08	1.11E-09	0.00E+00	6.11E-08	1.63E-08	1.22E-08	4.02E-10	0.00E+00	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1588	762749.79	4069957.12	2.36E-07	2.03E-07	8.20E-09	0.00E+00	4.47E-07	3.60E-08	3.12E-08	1.24E-09	0.00E+00	6.85E-08	1.83E-08	1.36E-08	4.50E-10	0.00E+00	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1589	762750.22	4069932.42	2.65E-07	2.27E-07	9.20E-09	0.00E+00	5.02E-07	4.04E-08	3.50E-08	1.39E-09	0.00E+00	7.68E-08	2.05E-08	1.53E-08	5.05E-10	0.00E+00	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1590	762750.65	4069907.72	2.95E-07	2.53E-07	1.02E-08	0.00E+00	5.58E-07	4.49E-08	3.90E-08	1.55E-09	0.00E+00	8.55E-08	2.28E-08	1.70E-08	5.62E-10	0.00E+00	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1591	762767.68	4070172.88	8.46E-08	7.26E-08	2.94E-09	0.00E+00	1.60E-07	1.29E-08	1.12E-08	4.45E-10	0.00E+00	2.45E-08	6.54E-09	4.88E-09	1.61E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1592	762757.84	4070195.11	7.77E-08	6.66E-08	2.70E-09	0.00E+00	1.47E-07	1.18E-08	1.03E-08	4.09E-10	0.00E+00	2.25E-08	6.01E-09	4.48E-09	1.48E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1593	762747.99	4070217.33	7.14E-08	6.13E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.44E-09	3.76E-10	0.00E+00	2.07E-08	5.52E-09	4.12E-09	1.36E-10	0.00E+00	9.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1594	762738.15	4070239.56	6.58E-08	5.64E-08	2.28E-09	0.00E+00	1.24E-07	1.00E-08	8.69E-09	3.46E-10	0.00E+00	1.91E-08	5.08E-09	3.79E-09	1.25E-10	0.00E+00	9.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1595	762728.31	4070261.79	6.05E-08	5.19E-08	2.10E-09	0.00E+00	1.14E-07	9.21E-09	8.00E-09	3.18E-10	0.00E+00	1.75E-08	4.67E-09	3.49E-09	1.15E-10	0.00E+00	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1596	762718.46	4070284.02	5.49E-08	4.71E-08	1.91E-09	0.00E+00	1.04E-07	8.37E-09	7.26E-09	2.89E-10	0.00E+00	1.59E-08	4.25E-09	3.17E-09	1.05E-10	0.00E+00	7.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1597	762688.93	4070350.71	4.32E-08	3.71E-08	1.50E-09	0.00E+00	8.18E-08	6.59E-09	5.72E-09	2.27E-10	0.00E+00	1.25E-08	3.34E-09	2.49E-09	8.24E-11	0.00E+00	5.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1598	762679.09	4070372.94	3.99E-08	3.42E-08	1.39E-09	0.00E+00	7.55E-08	6.08E-09	5.28E-09	2.10E-10	0.00E+00	1.16E-08	3.09E-09	2.30E-09	7.61E-11	0.00E+00	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1599	762669.24	4070395.17	3.69E-08	3.17E-08	1.28E-09	0.00E+00	6.99E-08	5.63E-09	4.88E-09	1.94E-10	0.00E+00	1.07E-08	2.86E-09	2.13E-09	7.04E-11	0.00E						

1687	763000.61	4069912.06	1.35E-07	1.16E-07	4.68E-09	0.00E+00	2.55E-07	2.06E-08	1.78E-08	7.10E-10	0.00E+00	3.91E-08	1.04E-08	7.78E-09	2.57E-10	0.00E+00	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	763068.09	4070177.06	5.40E-08	4.63E-08	1.87E-09	0.00E+00	1.02E-07	8.22E-09	7.13E-09	2.84E-10	0.00E+00	1.56E-08	4.17E-09	3.11E-09	1.03E-10	0.00E+00	7.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1689	763058.4	4070198.94	5.07E-08	4.35E-08	1.76E-09	0.00E+00	9.59E-08	7.73E-09	6.70E-09	2.67E-10	0.00E+00	1.47E-08	3.92E-09	2.92E-09	9.67E-11	0.00E+00	6.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1690	763048.71	4070220.83	4.78E-08	4.10E-08	1.66E-09	0.00E+00	9.04E-08	7.28E-09	6.32E-09	2.51E-10	0.00E+00	1.38E-08	3.69E-09	2.76E-09	9.11E-11	0.00E+00	6.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1691	763039.01	4070242.72	4.49E-08	3.85E-08	1.56E-09	0.00E+00	8.50E-08	6.85E-09	5.94E-09	2.36E-10	0.00E+00	1.30E-08	3.47E-09	2.59E-09	8.57E-11	0.00E+00	6.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1692	763029.32	4070264.61	4.21E-08	3.61E-08	1.46E-09	0.00E+00	7.96E-08	6.41E-09	5.56E-09	2.21E-10	0.00E+00	1.22E-08	3.25E-09	2.43E-09	8.02E-11	0.00E+00	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1693	763019.63	4070286.49	3.94E-08	3.38E-08	1.37E-09	0.00E+00	7.46E-08	6.01E-09	5.21E-09	2.07E-10	0.00E+00	1.14E-08	3.05E-09	2.27E-09	7.52E-11	0.00E+00	5.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1694	763009.94	4070308.38	3.69E-08	3.16E-08	1.28E-09	0.00E+00	6.98E-08	5.62E-09	4.87E-09	1.94E-10	0.00E+00	1.07E-08	2.85E-09	2.13E-09	7.03E-11	0.00E+00	5.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1695	762971.17	4070395.93	2.84E-08	2.44E-08	9.87E-10	0.00E+00	5.38E-08	4.33E-09	3.76E-09	1.50E-10	0.00E+00	8.24E-09	2.20E-09	1.64E-09	5.42E-11	0.00E+00	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1696	762961.47	4070417.82	2.67E-08	2.29E-08	9.28E-10	0.00E+00	5.06E-08	4.07E-09	3.54E-09	1.41E-10	0.00E+00	7.75E-09	2.07E-09	1.54E-09	5.10E-11	0.00E+00	3.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1697	762951.78	4070439.7	2.52E-08	2.16E-08	8.73E-10	0.00E+00	4.76E-08	3.83E-09	3.33E-09	1.32E-10	0.00E+00	7.29E-09	1.95E-09	1.45E-09	4.80E-11	0.00E+00	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1698	762942.09	4070461.59	2.37E-08	2.03E-08	8.23E-10	0.00E+00	4.49E-08	3.61E-09	3.13E-09	1.25E-10	0.00E+00	6.87E-09	1.83E-09	1.37E-09	4.52E-11	0.00E+00	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1699	762932.39	4070483.48	2.25E-08	1.93E-08	7.80E-10	0.00E+00	4.25E-08	3.42E-09	2.97E-09	1.18E-10	0.00E+00	6.51E-09	1.74E-09	1.30E-09	4.28E-11	0.00E+00	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1700	762922.7	4070505.37	2.14E-08	1.84E-08	7.44E-10	0.00E+00	4.05E-08	3.26E-09	2.83E-09	1.13E-10	0.00E+00	6.21E-09	1.66E-09	1.24E-09	4.08E-11	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1701	762913.01	4070527.25	2.05E-08	1.76E-08	7.11E-10	0.00E+00	3.88E-08	3.12E-09	2.71E-09	1.08E-10	0.00E+00	5.94E-09	1.58E-09	1.18E-09	3.90E-11	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1702	762903.32	4070549.14	1.95E-08	1.67E-08	6.78E-10	0.00E+00	3.69E-08	2.98E-09	2.58E-09	1.03E-10	0.00E+00	5.66E-09	1.51E-09	1.13E-09	3.72E-11	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1703	762893.62	4070571.03	1.86E-08	1.60E-08	6.46E-10	0.00E+00	3.52E-08	2.84E-09	2.46E-09	9.80E-11	0.00E+00	5.40E-09	1.44E-09	1.07E-09	3.55E-11	0.00E+00	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1704	762883.93	4070592.92	1.77E-08	1.52E-08	6.15E-10	0.00E+00	3.35E-08	2.70E-09	2.34E-09	9.32E-11	0.00E+00	5.13E-09	1.37E-09	1.02E-09	3.38E-11	0.00E+00	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1705	762874.24	4070614.8	1.69E-08	1.45E-08	5.85E-10	0.00E+00	3.19E-08	2.57E-09	2.23E-09	8.87E-11	0.00E+00	4.89E-09	1.30E-09	9.73E-10	3.22E-11	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1706	762864.55	4070636.69	1.61E-08	1.38E-08	5.57E-10	0.00E+00	3.04E-08	2.45E-09	2.12E-09	8.44E-11	0.00E+00	4.65E-09	1.24E-09	9.26E-10	3.06E-11	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1707	762854.85	4070658.58	1.54E-08	1.32E-08	5.33E-10	0.00E+00	2.91E-08	2.34E-09	2.03E-09	8.08E-11	0.00E+00	4.45E-09	1.19E-09	8.86E-10	2.93E-11	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1708	762777.82	4070705.42	1.41E-08	1.21E-08	4.89E-10	0.00E+00	2.66E-08	2.15E-09	1.86E-09	7.41E-11	0.00E+00	4.08E-09	1.09E-09	8.12E-10	2.68E-11	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1709	762755.38	4070713.73	1.40E-08	1.20E-08	4.86E-10	0.00E+00	2.65E-08	2.13E-09	1.85E-09	7.37E-11	0.00E+00	4.06E-09	1.08E-09	8.08E-10	2.67E-11	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1710	762732.93	4070722.05	1.39E-08	1.20E-08	4.84E-10	0.00E+00	2.64E-08	2.12E-09	1.84E-09	7.33E-11	0.00E+00	4.04E-09	1.08E-09	8.04E-10	2.66E-11	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1711	762665.59	4070747	1.35E-08	1.16E-08	4.70E-10	0.00E+00	2.56E-08	2.06E-09	1.79E-09	7.13E-11	0.00E+00	3.93E-09	1.05E-09	7.82E-10	2.58E-11	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1712	762643.15	4070755.32	1.34E-08	1.15E-08	4.66E-10	0.00E+00	2.54E-08	2.05E-09	1.77E-09	7.06E-11	0.00E+00	3.89E-09	1.04E-09	7.74E-10	2.56E-11	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1713	762620.7	4070763.64	1.33E-08	1.14E-08	4.62E-10	0.00E+00	2.52E-08	2.03E-09	1.76E-09	7.00E-11	0.00E+00	3.86E-09	1.03E-09	7.67E-10	2.54E-11	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1714	762598.25	4070771.95	1.33E-08	1.14E-08	4.60E-10	0.00E+00	2.51E-08	2.02E-09	1.75E-09	6.98E-11	0.00E+00	3.84E-09	1.03E-09	7.65E-10	2.53E-11	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1715	763097.6	4070086.69	7.03E-08	6.03E-08	2.44E-09	0.00E+00	1.33E-07	1.07E-08	9.30E-09	3.70E-10	0.00E+00	2.04E-08	5.44E-09	4.06E-09	1.34E-10	0.00E+00	9.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1716	763098.03	4070061.99	7.57E-08	6.49E-08	2.63E-09	0.00E+00	1.43E-07	1.15E-08	1.00E-08	3.98E-10	0.00E+00	2.19E-08	5.85E-09	4.37E-09	1.44E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1717	763098.46	4070037.29	8.08E-08	6.92E-08	2.80E-09	0.00E+00	1.53E-07	1.23E-08	1.07E-08	4.25E-10	0.00E+00	2.34E-08	6.24E-09	4.66E-09	1.54E-10	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1718	763098.88	4070012.59	8.60E-08	7.37E-08	2.98E-09	0.00E+00	1.63E-07	1.31E-08	1.14E-08	4.52E-10	0.00E+00	2.49E-08	6.65E-09	4.96E-09	1.64E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1719	763099.31	4069987.89	9.09E-08	7.79E-08	3.16E-09	0.00E+00	1.72E-07	1.39E-08	1.20E-08	4.78E-10	0.00E+00	2.63E-08	7.03E-09	5.24E-09	1.73E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1720	763099.74	4069963.19	9.59E-08	8.22E-08	3.33E-09	0.00E+00	1.81E-07	1.46E-08	1.27E-08	5.04E-10	0.00E+00	2.78E-08	7.41E-09	5.53E-09	1.83E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1721	763100.17	4069938.49	1.02E-07	8.71E-08	3.53E-09	0.00E+00	1.92E-07	1.55E-08	1.34E-08	5.34E-10	0.00E+00	2.94E-08	7.85E-09	5.86E-09	1.94E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1722	763100.6	4069913.79	1.08E-07	9.26E-08	3.75E-09	0.00E+00	2.04E-07	1.65E-08	1.43E-08	5.68E-10	0.00E+00	3.13E-08	8.35E-09	6.23E-09	2.06E-10	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1723	763167.83	4070179.36	4.93E-08	4.23E-08	1.71E-09	0.00E+00	9.34E-08	7.52E-09	6.52E-09	2.60E-10	0.00E+00	1.43E-08	3.81E-09	2.85E-09	9.41E-11	0.00E+00	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1724	763158.05	4070201.43	4.64E-08	3.98E-08	1.61E-09	0.00E+00	8.78E-08	7.07E-09	6.14E-09	2.44E-10	0.00E+00	1.35E-08	3.59E-09	2.68E-09	8.85E-11	0.00E+00	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1725	763148.27	4070223.51	4.36E-08	3.74E-08	1.51E-09	0.00E+00	8.25E-08	6.64E-09	5.77E-09	2.29E-10	0.00E+00	1.26E-08	3.37E-09	2.52E-09	8.31E-11	0.00E+00	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1726	763138.5	4070245.59	4.09E-08	3.51E-08	1.42E-09	0.00E+00	7.74E-08	6.24E-09	5.41E-09	2.15E-10	0.00E+00	1.19E-08	3.16E-09	2.36E-09	7.80E-11	0.00E+00	5.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1727	763128.72	4070267.66	3.84E-08	3.29E-08	1.33E-09	0.00E+00	7.26E-08	5.84E-09	5.07E-09	2.02E-10	0.00E+00	1.11E-08	2.96E-09	2.21E-09	7.31E-11	0.00E+00	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1728	763118.94	4070289.74	3.60E-08	3.09E-08	1.25E-09	0.00E+00	6.81E-08	5.48E-09	4.76E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.05E-09	6.86E-11	0.00E+00	4.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1729	763109.17	4070311.81	3.38E-08	2.90E-08	1.17E-09	0.00E+00	6.40E-08	5.16E-09	4.47E-09	1.78E-10	0.00E+00	9.81E-09	2.62E-09	1.98E-09	6.45E-11	0.00E+						

1817	763149.62	4070675.51	1.39E-08	1.20E-08	4.84E-10	0.00E+00	2.64E-08	2.12E-09	1.84E-09	7.33E-11	0.00E+00	4.04E-09	1.08E-09	8.04E-10	2.66E-11	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	763139.72	4070697.87	1.35E-08	1.16E-08	4.69E-10	0.00E+00	2.56E-08	2.06E-09	1.79E-09	7.11E-11	0.00E+00	3.92E-09	1.04E-09	7.80E-10	2.58E-11	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1819	763129.82	4070720.22	1.31E-08	1.12E-08	4.54E-10	0.00E+00	2.47E-08	1.99E-09	1.73E-09	6.88E-11	0.00E+00	3.79E-09	1.01E-09	7.54E-10	2.49E-11	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1820	763119.91	4070742.58	1.26E-08	1.08E-08	4.38E-10	0.00E+00	2.39E-08	1.92E-09	1.67E-09	6.63E-11	0.00E+00	3.65E-09	9.75E-10	7.27E-10	2.40E-11	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1821	763110.01	4070764.94	1.21E-08	1.04E-08	4.22E-10	0.00E+00	2.30E-08	1.85E-09	1.61E-09	6.39E-11	0.00E+00	3.52E-09	9.39E-10	7.01E-10	2.32E-11	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1822	763100.11	4070787.29	1.17E-08	1.00E-08	4.06E-10	0.00E+00	2.21E-08	1.78E-09	1.55E-09	6.16E-11	0.00E+00	3.39E-09	9.05E-10	6.75E-10	2.23E-11	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1823	763090.21	4070809.65	1.13E-08	9.70E-09	3.93E-10	0.00E+00	2.14E-08	1.72E-09	1.50E-09	5.95E-11	0.00E+00	3.28E-09	8.75E-10	6.53E-10	2.16E-11	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1824	763080.31	4070832.01	1.09E-08	9.38E-09	3.80E-10	0.00E+00	2.07E-08	1.67E-09	1.45E-09	5.76E-11	0.00E+00	3.17E-09	8.46E-10	6.31E-10	2.09E-11	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1825	763070.41	4070854.36	1.06E-08	9.05E-09	3.66E-10	0.00E+00	2.00E-08	1.61E-09	1.40E-09	5.55E-11	0.00E+00	3.06E-09	8.16E-10	6.09E-10	2.01E-11	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1826	763060.51	4070876.72	1.02E-08	8.74E-09	3.54E-10	0.00E+00	1.93E-08	1.55E-09	1.35E-09	5.36E-11	0.00E+00	2.96E-09	7.88E-10	5.88E-10	1.94E-11	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1827	762981.83	4070924.56	9.93E-09	8.00E-09	3.24E-10	0.00E+00	1.77E-08	1.42E-09	1.23E-09	4.91E-11	0.00E+00	2.70E-09	7.21E-10	5.38E-10	1.78E-11	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1828	762958.9	4070933.06	9.19E-09	7.88E-09	3.19E-10	0.00E+00	1.74E-08	1.40E-09	1.21E-09	4.83E-11	0.00E+00	2.66E-09	7.10E-10	5.30E-10	1.75E-11	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1829	762935.98	4070941.55	9.04E-09	7.76E-09	3.14E-10	0.00E+00	1.71E-08	1.38E-09	1.20E-09	4.76E-11	0.00E+00	2.62E-09	6.99E-10	5.22E-10	1.72E-11	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1830	762867.2	4070967.04	8.69E-09	7.45E-09	3.02E-10	0.00E+00	1.64E-08	1.32E-09	1.15E-09	4.57E-11	0.00E+00	2.52E-09	6.72E-10	5.01E-10	1.66E-11	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1831	762844.27	4070975.53	8.57E-09	7.34E-09	2.97E-10	0.00E+00	1.62E-08	1.31E-09	1.13E-09	4.51E-11	0.00E+00	2.48E-09	6.62E-10	4.94E-10	1.63E-11	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1832	762821.34	4070984.03	8.49E-09	7.28E-09	2.95E-10	0.00E+00	1.61E-08	1.29E-09	1.12E-09	4.47E-11	0.00E+00	2.46E-09	6.57E-10	4.90E-10	1.62E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1833	762752.56	4071009.51	8.41E-09	7.21E-09	2.92E-10	0.00E+00	1.59E-08	1.28E-09	1.11E-09	4.42E-11	0.00E+00	2.44E-09	6.50E-10	4.85E-10	1.60E-11	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1834	763397.12	4070116.6	4.81E-08	4.12E-08	1.67E-09	0.00E+00	9.09E-08	7.32E-09	6.35E-09	2.53E-10	0.00E+00	1.39E-08	3.71E-09	2.77E-09	9.16E-11	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1835	763397.55	4070091.9	5.08E-08	4.36E-08	1.76E-09	0.00E+00	9.61E-08	7.74E-09	6.71E-09	2.67E-10	0.00E+00	1.47E-08	3.93E-09	2.93E-09	9.68E-11	0.00E+00	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1836	763397.98	4070067.2	5.33E-08	4.57E-08	1.85E-09	0.00E+00	1.01E-07	8.13E-09	7.05E-09	2.81E-10	0.00E+00	1.55E-08	4.12E-09	3.08E-09	1.02E-10	0.00E+00	7.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1837	763398.41	4070042.5	5.58E-08	4.78E-08	1.94E-09	0.00E+00	1.06E-07	8.50E-09	7.37E-09	2.93E-10	0.00E+00	1.62E-08	4.31E-09	3.22E-09	1.06E-10	0.00E+00	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1838	763398.84	4070017.8	5.80E-08	4.98E-08	2.01E-09	0.00E+00	1.10E-07	8.84E-09	7.67E-09	3.05E-10	0.00E+00	1.68E-08	4.49E-09	3.35E-09	1.11E-10	0.00E+00	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1839	763399.27	4069993.1	6.04E-08	5.18E-08	2.10E-09	0.00E+00	1.14E-07	9.20E-09	7.98E-09	3.18E-10	0.00E+00	1.75E-08	4.67E-09	3.48E-09	1.15E-10	0.00E+00	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1840	763399.7	4069968.4	6.29E-08	5.39E-08	2.18E-09	0.00E+00	1.19E-07	9.58E-09	8.31E-09	3.31E-10	0.00E+00	1.82E-08	4.86E-09	3.63E-09	1.20E-10	0.00E+00	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1841	763400.13	4069943.7	6.55E-08	5.62E-08	2.28E-09	0.00E+00	1.24E-07	9.99E-09	8.67E-09	3.45E-10	0.00E+00	1.90E-08	5.07E-09	3.78E-09	1.25E-10	0.00E+00	8.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1842	763400.55	4069919	6.88E-08	5.90E-08	2.39E-09	0.00E+00	1.30E-07	1.05E-09	9.09E-09	3.62E-10	0.00E+00	1.99E-08	5.32E-09	3.97E-09	1.31E-10	0.00E+00	9.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1843	763487.16	4070140.8	4.23E-08	3.62E-08	1.47E-09	0.00E+00	8.00E-08	6.44E-09	5.59E-09	2.22E-10	0.00E+00	1.22E-08	3.27E-09	2.44E-09	8.06E-11	0.00E+00	5.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1844	763477.21	4070163.26	4.02E-08	3.45E-08	1.40E-09	0.00E+00	7.61E-08	6.13E-09	5.32E-09	2.12E-10	0.00E+00	1.17E-08	3.11E-09	2.32E-09	7.67E-11	0.00E+00	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1845	763467.27	4070185.73	3.83E-08	3.28E-08	1.33E-09	0.00E+00	7.24E-08	5.83E-09	5.06E-09	2.01E-10	0.00E+00	1.11E-08	2.96E-09	2.21E-09	7.30E-11	0.00E+00	5.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1846	763457.32	4070208.19	3.64E-08	3.12E-08	1.26E-09	0.00E+00	6.89E-08	5.55E-09	4.81E-09	1.92E-10	0.00E+00	1.06E-08	2.81E-09	2.10E-09	6.94E-11	0.00E+00	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1847	763447.37	4070230.65	3.46E-08	2.97E-08	1.20E-09	0.00E+00	6.54E-08	5.27E-09	4.57E-09	1.82E-10	0.00E+00	1.00E-08	2.67E-09	1.99E-09	6.59E-11	0.00E+00	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1848	763437.42	4070253.12	3.27E-08	2.81E-08	1.14E-09	0.00E+00	6.19E-08	4.99E-09	4.33E-09	1.72E-10	0.00E+00	9.48E-09	2.53E-09	1.89E-09	6.24E-11	0.00E+00	4.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1849	763427.48	4070275.58	3.09E-08	2.65E-08	1.07E-09	0.00E+00	5.85E-08	4.71E-09	4.08E-09	1.63E-10	0.00E+00	8.95E-09	2.39E-09	1.78E-09	5.89E-11	0.00E+00	4.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1850	763417.53	4070298.04	2.92E-08	2.50E-08	1.01E-09	0.00E+00	5.52E-08	4.45E-09	3.86E-09	1.53E-10	0.00E+00	8.46E-09	2.25E-09	1.68E-09	5.56E-11	0.00E+00	3.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1851	763407.58	4070320.51	2.76E-08	2.36E-08	9.57E-10	0.00E+00	5.21E-08	4.20E-09	3.64E-09	1.45E-10	0.00E+00	7.99E-09	2.13E-09	1.59E-09	5.25E-11	0.00E+00	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1852	763397.63	4070342.97	2.61E-08	2.24E-08	9.05E-10	0.00E+00	4.93E-08	3.97E-09	3.45E-09	1.37E-10	0.00E+00	7.56E-09	2.01E-09	1.50E-09	4.97E-11	0.00E+00	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1853	763387.68	4070365.43	2.48E-08	2.13E-08	8.62E-10	0.00E+00	4.70E-08	3.79E-09	3.28E-09	1.31E-10	0.00E+00	7.20E-09	1.92E-09	1.43E-09	4.74E-11	0.00E+00	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1854	763377.74	4070387.9	2.37E-08	2.03E-08	8.23E-10	0.00E+00	4.49E-08	3.61E-09	3.13E-09	1.25E-10	0.00E+00	6.87E-09	1.83E-09	1.37E-09	4.52E-11	0.00E+00	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1855	763367.79	4070410.36	2.26E-08	1.94E-08	7.84E-10	0.00E+00	4.27E-08	3.44E-09	2.98E-09	1.19E-10	0.00E+00	6.54E-09	1.74E-09	1.30E-09	4.30E-11	0.00E+00	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1856	763357.84	4070432.82	2.15E-08	1.84E-08	7.47E-10	0.00E+00	4.07E-08	3.28E-09	2.84E-09	1.13E-10	0.00E+00	6.23E-09	1.66E-09	1.24E-09	4.10E-11	0.00E+00	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1857	763347.89	4070455.29	2.05E-08	1.76E-08	7.12E-10	0.00E+00	3.88E-08	3.13E-09	2.71E-09	1.08E-10	0.00E+00	5.95E-09	1.59E-09	1.18E-09	3.91E-11	0.00E+00	2.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1858	763337.95	4070477.15	1.96E-08	1.68E-08	6.79E-10	0.00E+00	3.70E-08	2.98E-09	2.59E-09	1.03E-10	0.00E+00	5.67E-09	1.51E-09	1.13E-09	3.73E-11	0.00E+00	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1859	763328	4070500.21	1.87E-08	1.60E-08	6.48E-10	0.00E+00	3.53E-08	2.84E-09	2.47E-09	9.81E-11	0.00E+00	5.41E-09	1.44E-09	1.08E-09	3.56E-11	0.00E+00	2					

1947	761957.49	4069808.5	1.34E-06	1.15E-06	4.64E-08	0.00E+00	2.53E-06	2.04E-07	1.77E-07	7.03E-09	0.00E+00	3.87E-07	1.03E-07	7.71E-08	2.55E-09	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	761932.71	4069807.32	7.71E-07	6.61E-07	2.68E-08	0.00E+00	1.46E-06	1.17E-07	1.02E-07	4.06E-09	0.00E+00	2.23E-07	5.96E-08	4.45E-08	1.47E-09	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1949	761907.94	4069806.14	4.48E-07	3.84E-07	1.55E-08	0.00E+00	8.47E-07	6.82E-08	5.92E-08	2.36E-09	0.00E+00	1.30E-07	3.46E-08	2.58E-08	8.54E-10	0.00E+00	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1950	762322.52	4069807.9	5.40E-06	4.63E-06	1.87E-07	0.00E+00	1.02E-05	8.23E-07	7.14E-07	2.84E-08	0.00E+00	1.57E-06	4.17E-07	3.12E-07	1.03E-08	0.00E+00	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1951	762356.63	4069823.65	5.33E-06	4.57E-06	1.85E-07	0.00E+00	1.01E-05	8.12E-07	7.04E-07	2.80E-08	0.00E+00	1.54E-06	4.12E-07	3.07E-07	1.02E-08	0.00E+00	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1952	762380.44	4069849.06	4.98E-06	4.27E-06	1.73E-07	0.00E+00	9.43E-06	7.59E-07	6.59E-07	2.62E-08	0.00E+00	1.44E-06	3.85E-07	2.87E-07	9.50E-09	0.00E+00	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1953	762280.7	4069798.84	5.25E-06	4.50E-06	1.82E-07	0.00E+00	9.93E-06	8.00E-07	6.94E-07	2.76E-08	0.00E+00	1.52E-06	4.06E-07	3.03E-07	1.00E-08	0.00E+00	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1954	762255.93	4069797.67	5.20E-06	4.46E-06	1.80E-07	0.00E+00	9.84E-06	7.92E-07	6.87E-07	2.74E-08	0.00E+00	1.51E-06	4.02E-07	3.00E-07	9.91E-09	0.00E+00	7.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1955	762231.16	4069796.49	5.09E-06	4.36E-06	1.77E-07	0.00E+00	9.63E-06	7.75E-07	6.73E-07	2.68E-08	0.00E+00	1.48E-06	3.93E-07	2.94E-07	9.70E-09	0.00E+00	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1956	762206.39	4069795.31	4.93E-06	4.23E-06	1.71E-07	0.00E+00	9.33E-06	7.51E-07	6.52E-07	2.59E-08	0.00E+00	1.43E-06	3.81E-07	2.84E-07	9.40E-09	0.00E+00	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1957	762181.61	4069794.13	4.72E-06	4.05E-06	1.64E-07	0.00E+00	8.93E-06	7.19E-07	6.24E-07	2.48E-08	0.00E+00	1.37E-06	3.65E-07	2.72E-07	9.00E-09	0.00E+00	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1958	762156.84	4069792.95	4.37E-06	3.75E-06	1.52E-07	0.00E+00	8.27E-06	6.66E-07	5.78E-07	2.30E-08	0.00E+00	1.27E-06	3.38E-07	2.52E-07	8.34E-09	0.00E+00	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1959	762132.07	4069791.78	4.01E-06	3.43E-06	1.39E-07	0.00E+00	7.58E-06	6.10E-07	5.30E-07	2.11E-08	0.00E+00	1.16E-06	3.10E-07	2.31E-07	7.64E-09	0.00E+00	5.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1960	762107.3	4069790.6	3.64E-06	3.12E-06	1.26E-07	0.00E+00	6.88E-06	5.54E-07	4.81E-07	1.91E-08	0.00E+00	1.05E-06	2.81E-07	2.10E-07	6.94E-09	0.00E+00	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1961	762082.53	4069789.42	3.25E-06	2.79E-06	1.13E-07	0.00E+00	6.15E-06	4.95E-07	4.30E-07	1.71E-08	0.00E+00	9.42E-07	2.51E-07	1.87E-07	6.20E-09	0.00E+00	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1962	762057.76	4069788.24	2.83E-06	2.43E-06	9.83E-08	0.00E+00	5.36E-06	4.32E-07	3.74E-07	1.49E-08	0.00E+00	8.21E-07	2.19E-07	1.63E-07	5.40E-09	0.00E+00	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1963	762032.99	4069787.06	2.35E-06	2.02E-06	8.17E-08	0.00E+00	4.45E-06	3.59E-07	3.11E-07	1.24E-08	0.00E+00	6.82E-07	1.82E-07	1.36E-07	4.49E-09	0.00E+00	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1964	762008.22	4069785.89	1.81E-06	1.55E-06	6.29E-08	0.00E+00	3.43E-06	2.76E-07	2.40E-07	9.53E-09	0.00E+00	5.25E-07	1.40E-07	1.05E-07	3.45E-09	0.00E+00	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1965	761983.44	4069784.71	1.29E-06	1.11E-06	4.48E-08	0.00E+00	2.44E-06	1.97E-07	1.71E-07	6.79E-09	0.00E+00	3.74E-07	9.97E-08	7.44E-08	2.46E-09	0.00E+00	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1966	761958.67	4069783.53	8.41E-07	7.21E-07	2.92E-08	0.00E+00	1.59E-06	1.28E-07	1.11E-07	4.42E-09	0.00E+00	2.44E-07	6.50E-08	4.85E-08	1.60E-09	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1967	761933.9	4069782.35	5.26E-07	4.51E-07	1.82E-08	0.00E+00	9.95E-07	8.01E-08	6.95E-08	2.77E-09	0.00E+00	1.52E-07	4.06E-08	3.03E-08	1.00E-09	0.00E+00	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1968	761909.13	4069781.17	3.40E-07	2.92E-07	1.18E-08	0.00E+00	6.43E-07	5.18E-08	4.49E-08	1.79E-09	0.00E+00	9.85E-08	2.63E-08	1.96E-08	6.48E-10	0.00E+00	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1969	762327.98	4069784.9	4.55E-06	3.90E-06	1.58E-07	0.00E+00	8.61E-06	6.93E-07	6.01E-07	2.39E-08	0.00E+00	1.32E-06	3.52E-07	2.62E-07	8.67E-09	0.00E+00	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1970	762349.29	4069794.74	4.64E-06	3.98E-06	1.61E-07	0.00E+00	8.78E-06	7.07E-07	6.14E-07	2.44E-08	0.00E+00	1.35E-06	3.59E-07	2.68E-07	8.85E-09	0.00E+00	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1971	762370.61	4069804.59	4.53E-06	3.89E-06	1.57E-07	0.00E+00	8.58E-06	6.91E-07	5.99E-07	2.39E-08	0.00E+00	1.31E-06	3.50E-07	2.62E-07	8.64E-09	0.00E+00	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1972	762400.37	4069836.35	4.17E-06	3.57E-06	1.45E-07	0.00E+00	7.88E-06	6.35E-07	5.51E-07	2.19E-08	0.00E+00	1.21E-06	3.22E-07	2.40E-07	7.94E-09	0.00E+00	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1973	762408.81	4069858.26	3.90E-06	3.35E-06	1.36E-07	0.00E+00	7.39E-06	5.95E-07	5.16E-07	2.05E-08	0.00E+00	1.13E-06	3.02E-07	2.25E-07	7.44E-09	0.00E+00	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1974	762417.26	4069880.17	3.48E-06	2.99E-06	1.21E-07	0.00E+00	6.59E-06	5.31E-07	4.60E-07	1.83E-08	0.00E+00	1.01E-06	2.69E-07	2.01E-07	6.64E-09	0.00E+00	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1975	762306.66	4069775.05	4.34E-06	3.72E-06	1.51E-07	0.00E+00	8.20E-06	6.61E-07	5.73E-07	2.28E-08	0.00E+00	1.26E-06	3.35E-07	2.50E-07	8.27E-09	0.00E+00	5.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1976	762281.89	4069773.87	4.32E-06	3.70E-06	1.50E-07	0.00E+00	8.17E-06	6.58E-07	5.71E-07	2.27E-08	0.00E+00	1.25E-06	3.34E-07	2.49E-07	8.23E-09	0.00E+00	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1977	762257.12	4069772.69	4.24E-06	3.63E-06	1.47E-07	0.00E+00	8.01E-06	6.45E-07	5.60E-07	2.23E-08	0.00E+00	1.23E-06	3.27E-07	2.44E-07	8.07E-09	0.00E+00	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1978	762232.34	4069771.52	4.10E-06	3.52E-06	1.42E-07	0.00E+00	7.77E-06	6.25E-07	5.43E-07	2.16E-08	0.00E+00	1.19E-06	3.17E-07	2.37E-07	7.82E-09	0.00E+00	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1979	762207.57	4069770.34	3.90E-06	3.35E-06	1.35E-07	0.00E+00	7.38E-06	5.94E-07	5.16E-07	2.05E-08	0.00E+00	1.13E-06	3.02E-07	2.25E-07	7.44E-09	0.00E+00	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1980	762182.8	4069769.16	3.69E-06	3.16E-06	1.28E-07	0.00E+00	6.98E-06	5.62E-07	4.88E-07	1.94E-08	0.00E+00	1.07E-06	2.85E-07	2.13E-07	7.03E-09	0.00E+00	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1981	762158.03	4069767.98	3.35E-06	2.87E-06	1.16E-07	0.00E+00	6.33E-06	5.10E-07	4.42E-07	1.76E-08	0.00E+00	9.70E-07	2.59E-07	1.93E-07	6.38E-09	0.00E+00	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1982	762133.26	4069766.8	3.03E-06	2.60E-06	1.05E-07	0.00E+00	5.73E-06	4.61E-07	4.00E-07	1.59E-08	0.00E+00	8.78E-07	2.34E-07	1.75E-07	5.77E-09	0.00E+00	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1983	762108.49	4069765.63	2.72E-06	2.33E-06	9.43E-08	0.00E+00	5.14E-06	4.14E-07	3.59E-07	1.43E-08	0.00E+00	7.87E-07	2.10E-07	1.57E-07	5.18E-09	0.00E+00	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1984	762083.72	4069764.45	2.39E-06	2.05E-06	8.30E-08	0.00E+00	4.52E-06	3.64E-07	3.16E-07	1.26E-08	0.00E+00	6.93E-07	1.85E-07	1.38E-07	4.56E-09	0.00E+00	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1985	762058.95	4069763.27	2.05E-06	1.76E-06	7.12E-08	0.00E+00	3.88E-06	3.12E-07	2.71E-07	1.08E-08	0.00E+00	5.94E-07	1.58E-07	1.18E-07	3.91E-09	0.00E+00	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1986	762034.17	4069762.09	1.64E-06	1.41E-06	5.69E-08	0.00E+00	3.10E-06	2.50E-07	2.17E-07	8.62E-09	0.00E+00	4.75E-07	1.27E-07	9.45E-08	3.12E-09	0.00E+00	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1987	762009.4	4069760.91	1.23E-06	1.05E-06	4.27E-08	0.00E+00	2.33E-06	1.87E-07	1.63E-07	6.47E-09	0.00E+00	3.57E-07	9.51E-08	7.10E-08	2.35E-09	0.00E+00	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1988	761984.63	4069759.74	8.68E-07	7.44E-07	3.01E-08	0.00E+00	1.64E-06	1.32E-07	1.15E-07	4.56E-09	0.00E+00	2.51E-07	6.71E-08	5.01E-08	1.65E-09	0.00E+00	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1989	761959.86	4069758.56	5.84E-07	5.01E-07	2.03E-08	0.00E+00	1.10E-06	8.90E-08	7.72E-08	3.07E-09	0.00E+00	1.69E-07	4.51E-08	3.37E-08	1.11E-09	0.00E						

2077	762213.51	4069645.48	1.45E-06	1.24E-06	5.03E-08	0.00E+00	2.74E-06	2.21E-07	1.92E-07	7.63E-09	0.00E+00	4.20E-07	1.12E-07	8.36E-08	2.76E-09	0.00E+00	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	762188.74	4069644.3	1.29E-06	1.11E-06	4.48E-08	0.00E+00	2.44E-06	1.97E-07	1.71E-07	6.79E-09	0.00E+00	3.74E-07	9.98E-08	7.45E-08	2.46E-09	0.00E+00	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2079	762163.97	4069643.12	1.13E-06	9.66E-07	3.91E-08	0.00E+00	2.13E-06	1.72E-07	1.49E-07	5.92E-09	0.00E+00	3.26E-07	8.70E-08	6.50E-08	2.15E-09	0.00E+00	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2080	762139.2	4069641.95	9.61E-07	8.24E-07	3.34E-08	0.00E+00	1.82E-06	1.46E-07	1.27E-07	5.06E-09	0.00E+00	2.79E-07	7.43E-08	5.54E-08	1.83E-09	0.00E+00	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2081	762114.43	4069640.77	8.01E-07	6.87E-07	2.78E-08	0.00E+00	1.52E-06	1.22E-07	1.06E-07	4.22E-09	0.00E+00	2.32E-07	6.19E-08	4.62E-08	1.53E-09	0.00E+00	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2082	762089.66	4069639.59	6.53E-07	5.60E-07	2.27E-08	0.00E+00	1.23E-06	9.94E-08	8.63E-08	3.43E-09	0.00E+00	1.89E-07	5.04E-08	3.77E-08	1.24E-09	0.00E+00	8.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2083	762064.88	4069638.41	5.20E-07	4.46E-07	1.80E-08	0.00E+00	9.84E-07	7.92E-08	6.87E-08	2.73E-09	0.00E+00	1.51E-07	4.02E-08	3.00E-08	9.91E-10	0.00E+00	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2084	762040.11	4069637.23	4.07E-07	3.49E-07	1.41E-08	0.00E+00	7.70E-07	6.20E-08	5.38E-08	2.14E-09	0.00E+00	1.18E-07	3.14E-08	2.35E-08	7.75E-10	0.00E+00	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2085	762015.34	4069636.05	3.15E-07	2.70E-07	1.09E-08	0.00E+00	5.96E-07	4.80E-08	4.16E-08	1.66E-09	0.00E+00	9.13E-08	2.43E-08	1.82E-08	6.00E-10	0.00E+00	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2086	761990.57	4069634.88	2.44E-07	2.09E-07	8.46E-09	0.00E+00	4.61E-07	3.71E-08	3.22E-08	1.28E-09	0.00E+00	7.07E-08	1.88E-08	1.41E-08	4.65E-10	0.00E+00	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2087	761965.8	4069633.7	1.90E-07	1.63E-07	6.61E-09	0.00E+00	3.60E-07	2.90E-08	2.52E-08	1.00E-09	0.00E+00	5.52E-08	1.47E-08	1.10E-08	3.63E-10	0.00E+00	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2088	761941.03	4069632.52	1.51E-07	1.30E-07	5.25E-09	0.00E+00	2.86E-07	2.30E-08	2.00E-08	7.96E-10	0.00E+00	4.38E-08	1.17E-08	8.72E-09	2.88E-10	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2089	761916.26	4069631.34	1.23E-07	1.05E-07	4.27E-09	0.00E+00	2.33E-07	1.87E-08	1.63E-08	6.47E-10	0.00E+00	3.56E-08	9.50E-09	7.09E-09	2.34E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2090	762335.44	4069609.7	1.58E-06	1.36E-06	5.50E-08	0.00E+00	3.00E-06	2.41E-07	2.09E-07	8.33E-09	0.00E+00	4.59E-07	1.22E-07	9.14E-08	3.02E-09	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2091	762355.9	4069619.15	1.73E-06	1.48E-06	5.99E-08	0.00E+00	3.26E-06	2.63E-07	2.28E-07	9.08E-09	0.00E+00	5.00E-07	1.33E-07	9.95E-08	3.29E-09	0.00E+00	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2092	762396.83	4069638.06	1.93E-06	1.66E-06	6.71E-08	0.00E+00	3.66E-06	2.95E-07	2.56E-07	1.02E-08	0.00E+00	5.60E-07	1.49E-07	1.12E-07	3.68E-09	0.00E+00	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2093	762417.3	4069647.51	1.99E-06	1.70E-06	6.90E-08	0.00E+00	3.76E-06	3.03E-07	2.63E-07	1.05E-08	0.00E+00	5.76E-07	1.54E-07	1.15E-07	3.79E-09	0.00E+00	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2094	762437.76	4069656.96	2.03E-06	1.74E-06	7.06E-08	0.00E+00	3.85E-06	3.10E-07	2.69E-07	1.07E-08	0.00E+00	5.89E-07	1.57E-07	1.17E-07	3.88E-09	0.00E+00	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2095	762458.23	4069666.41	2.04E-06	1.75E-06	7.10E-08	0.00E+00	3.87E-06	3.12E-07	2.70E-07	1.08E-08	0.00E+00	5.93E-07	1.58E-07	1.18E-07	3.90E-09	0.00E+00	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2096	762499.16	4069685.32	1.94E-06	1.66E-06	6.72E-08	0.00E+00	3.66E-06	2.95E-07	2.56E-07	1.02E-08	0.00E+00	5.61E-07	1.50E-07	1.12E-07	3.69E-09	0.00E+00	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2097	762527.73	4069715.8	1.78E-06	1.53E-06	6.19E-08	0.00E+00	3.38E-06	2.72E-07	2.36E-07	9.39E-09	0.00E+00	5.17E-07	1.38E-07	1.03E-07	3.40E-09	0.00E+00	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2098	762543.94	4069757.87	1.63E-06	1.39E-06	5.64E-08	0.00E+00	3.08E-06	2.48E-07	2.15E-07	8.55E-09	0.00E+00	4.71E-07	1.26E-07	9.38E-08	3.10E-09	0.00E+00	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2099	762552.04	4069778.91	1.51E-06	1.29E-06	5.23E-08	0.00E+00	2.85E-06	2.30E-07	1.99E-07	7.92E-09	0.00E+00	4.37E-07	1.16E-07	8.69E-08	2.87E-09	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2100	762568.25	4069820.98	1.20E-06	1.03E-06	4.16E-08	0.00E+00	2.27E-06	1.83E-07	1.58E-07	6.30E-09	0.00E+00	3.47E-07	9.26E-08	6.91E-08	2.28E-09	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2101	762576.36	4069842.01	1.04E-06	8.91E-07	3.60E-08	0.00E+00	1.97E-06	1.58E-07	1.37E-07	5.46E-09	0.00E+00	3.01E-07	8.03E-08	5.99E-08	1.98E-09	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2102	762592.57	4069884.08	7.58E-07	6.50E-07	2.63E-08	0.00E+00	1.43E-06	1.15E-07	1.00E-07	3.99E-09	0.00E+00	2.20E-07	5.86E-08	4.37E-08	1.44E-09	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2103	762314.97	4069600.25	1.44E-06	1.23E-06	4.99E-08	0.00E+00	2.72E-06	2.19E-07	1.90E-07	7.56E-09	0.00E+00	4.16E-07	1.11E-07	8.29E-08	2.74E-09	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2104	762290.2	4069599.07	1.34E-06	1.15E-06	4.65E-08	0.00E+00	2.53E-06	2.04E-07	1.77E-07	7.04E-09	0.00E+00	3.88E-07	1.03E-07	7.72E-08	2.55E-09	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2105	762265.43	4069597.89	1.24E-06	1.06E-06	4.29E-08	0.00E+00	2.34E-06	1.89E-07	1.63E-07	6.50E-09	0.00E+00	3.58E-07	9.56E-08	7.13E-08	2.36E-09	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2106	762240.66	4069596.71	1.12E-06	9.64E-07	3.90E-08	0.00E+00	2.13E-06	1.71E-07	1.49E-07	5.91E-09	0.00E+00	3.26E-07	8.69E-08	6.48E-08	2.14E-09	0.00E+00	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2107	762215.89	4069595.54	1.00E-06	8.60E-07	3.48E-08	0.00E+00	1.90E-06	1.53E-07	1.33E-07	5.27E-09	0.00E+00	2.91E-07	7.75E-08	5.78E-08	1.91E-09	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2108	762191.12	4069594.36	8.77E-07	7.52E-07	3.05E-08	0.00E+00	1.66E-06	1.34E-07	1.16E-07	4.62E-09	0.00E+00	2.54E-07	6.78E-08	5.06E-08	1.67E-09	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2109	762166.34	4069593.18	7.54E-07	6.46E-07	2.62E-08	0.00E+00	1.43E-06	1.15E-07	9.96E-08	3.96E-09	0.00E+00	2.18E-07	5.83E-08	4.35E-08	1.44E-09	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2110	762141.57	4069592	6.35E-07	5.45E-07	2.21E-08	0.00E+00	1.20E-06	9.68E-08	8.40E-08	3.34E-09	0.00E+00	1.84E-07	4.91E-08	3.66E-08	1.21E-09	0.00E+00	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2111	762116.8	4069590.82	5.26E-07	4.51E-07	1.83E-08	0.00E+00	9.95E-07	8.01E-08	6.95E-08	2.77E-09	0.00E+00	1.52E-07	4.06E-08	3.03E-08	1.00E-09	0.00E+00	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2112	762092.03	4069589.65	4.28E-07	3.67E-07	1.49E-08	0.00E+00	8.10E-07	6.52E-08	5.66E-08	2.25E-09	0.00E+00	1.24E-07	3.31E-08	2.47E-08	8.16E-10	0.00E+00	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2113	762067.26	4069588.47	3.44E-07	2.95E-07	1.20E-08	0.00E+00	6.52E-07	5.25E-08	4.55E-08	1.81E-09	0.00E+00	9.98E-08	2.66E-08	1.99E-08	6.56E-10	0.00E+00	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2114	762042.49	4069587.29	2.75E-07	2.36E-07	9.54E-09	0.00E+00	5.20E-07	4.19E-08	3.63E-08	1.45E-09	0.00E+00	7.96E-08	2.12E-08	1.59E-08	5.24E-10	0.00E+00	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2115	762017.72	4069586.11	2.19E-07	1.88E-07	7.61E-09	0.00E+00	4.15E-07	3.34E-08	2.90E-08	1.15E-09	0.00E+00	6.36E-08	1.70E-08	1.27E-08	4.18E-10	0.00E+00	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2116	761992.95	4069584.93	1.76E-07	1.51E-07	6.11E-09	0.00E+00	3.33E-07	2.68E-08	2.33E-08	9.26E-10	0.00E+00	5.10E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2117	761968.17	4069583.75	1.43E-07	1.22E-07	4.95E-09	0.00E+00	2.70E-07	2.17E-08	1.89E-08	7.51E-10	0.00E+00	4.14E-08	1.10E-08	8.23E-09	2.72E-10	0.00E+00	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2118	761943.4	4069582.58	1.17E-07	1.01E-07	4.07E-09	0.00E+00	2.22E-07	1.79E-08	1.55E-08	6.18E-10	0.00E+00	3.40E-08	9.07E-09	6.77E-09	2.24E-10	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2119	761918.63	4069581.4	9.85E-08	8.44E-08	3.42E-09	0.00E+00	1.86E-07	1.50E-08	1.30E-08	5.18E-10	0.00E+00	2.85E-08	7.61E-09	5.68E-09	1.88E-10	0.00E+00						

2207	762541.36	4069551.69	1.31E-06	1.12E-06	4.55E-08	0.00E+00	2.48E-06	2.00E-07	1.73E-07	6.90E-09	0.00E+00	3.80E-07	1.01E-07	7.56E-08	2.50E-09	0.00E+00	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	762563.29	4069561.82	1.30E-06	1.11E-06	4.51E-08	0.00E+00	2.46E-06	1.98E-07	1.72E-07	6.83E-09	0.00E+00	3.76E-07	1.00E-07	7.49E-08	2.48E-09	0.00E+00	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2209	762585.22	4069571.95	1.27E-06	1.09E-06	4.41E-08	0.00E+00	2.40E-06	1.94E-07	1.68E-07	6.69E-09	0.00E+00	3.68E-07	9.82E-08	7.33E-08	2.42E-09	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2210	762607.14	4069582.07	1.23E-06	1.05E-06	4.26E-08	0.00E+00	2.32E-06	1.87E-07	1.62E-07	6.45E-09	0.00E+00	3.56E-07	9.48E-08	7.08E-08	2.34E-09	0.00E+00	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2211	762637.76	4069614.74	1.15E-06	9.83E-07	3.98E-08	0.00E+00	2.17E-06	1.75E-07	1.52E-07	6.03E-09	0.00E+00	3.32E-07	8.86E-08	6.61E-08	2.18E-09	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2212	762646.44	4069637.27	1.11E-06	9.51E-07	3.85E-08	0.00E+00	2.10E-06	1.69E-07	1.47E-07	5.84E-09	0.00E+00	3.22E-07	8.58E-08	6.40E-08	2.12E-09	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2213	762655.12	4069659.81	1.06E-06	9.06E-07	3.67E-08	0.00E+00	2.00E-06	1.61E-07	1.40E-07	5.56E-09	0.00E+00	3.06E-07	8.17E-08	6.10E-08	2.02E-09	0.00E+00	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2214	762663.81	4069682.35	9.92E-07	8.50E-07	3.44E-08	0.00E+00	1.88E-06	1.51E-07	1.31E-07	5.22E-09	0.00E+00	2.87E-07	7.67E-08	5.72E-08	1.89E-09	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2215	762672.49	4069704.89	9.07E-07	7.77E-07	3.15E-08	0.00E+00	1.72E-06	1.38E-07	1.20E-07	4.77E-09	0.00E+00	2.63E-07	7.01E-08	5.23E-08	1.73E-09	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2216	762681.18	4069727.42	8.16E-07	6.99E-07	2.83E-08	0.00E+00	1.54E-06	1.24E-07	1.08E-07	4.29E-09	0.00E+00	2.36E-07	6.30E-08	4.70E-08	1.55E-09	0.00E+00	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2217	762689.86	4069749.96	7.27E-07	6.23E-07	2.52E-08	0.00E+00	1.38E-06	1.11E-07	9.61E-08	3.83E-09	0.00E+00	2.11E-07	5.62E-08	4.19E-08	1.39E-09	0.00E+00	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2218	762698.55	4069772.5	6.47E-07	5.54E-07	2.24E-08	0.00E+00	1.22E-06	9.85E-08	8.55E-08	3.40E-09	0.00E+00	1.87E-07	5.00E-08	3.73E-08	1.23E-09	0.00E+00	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2219	762707.23	4069795.03	5.74E-07	4.92E-07	1.99E-08	0.00E+00	1.09E-06	8.75E-08	7.59E-08	3.02E-09	0.00E+00	1.66E-07	4.44E-08	3.31E-08	1.09E-09	0.00E+00	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2220	762715.91	4069817.57	5.04E-07	4.32E-07	1.75E-08	0.00E+00	9.53E-07	7.67E-08	6.66E-08	2.65E-09	0.00E+00	1.46E-07	3.89E-08	2.91E-08	9.60E-10	0.00E+00	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2221	762724.6	4069840.11	4.40E-07	3.77E-07	1.53E-08	0.00E+00	8.32E-07	6.70E-08	5.81E-08	2.31E-09	0.00E+00	1.27E-07	3.40E-08	2.54E-08	8.38E-10	0.00E+00	6.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2222	762733.28	4069862.65	3.84E-07	3.29E-07	1.33E-08	0.00E+00	7.26E-07	5.85E-08	5.07E-08	2.02E-09	0.00E+00	1.11E-07	2.97E-08	2.21E-08	7.32E-10	0.00E+00	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2223	762741.97	4069885.18	3.35E-07	2.87E-07	1.16E-08	0.00E+00	6.34E-07	5.11E-08	4.43E-08	1.76E-09	0.00E+00	9.71E-08	2.59E-08	1.93E-08	6.39E-10	0.00E+00	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2224	762322.1	4069450.42	6.20E-07	5.32E-07	2.15E-08	0.00E+00	1.17E-06	9.45E-08	8.20E-08	3.26E-09	0.00E+00	1.80E-07	4.79E-08	3.58E-08	1.18E-09	0.00E+00	8.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2225	762297.33	4069449.24	5.58E-07	4.78E-07	1.94E-08	0.00E+00	1.05E-06	8.49E-08	7.37E-08	2.93E-09	0.00E+00	1.62E-07	4.31E-08	3.22E-08	1.06E-09	0.00E+00	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2226	762272.56	4069448.06	4.95E-07	4.25E-07	1.72E-08	0.00E+00	9.37E-07	7.55E-08	6.55E-08	2.61E-09	0.00E+00	1.44E-07	3.83E-08	2.86E-08	9.44E-10	0.00E+00	6.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2227	762247.78	4069446.88	4.29E-07	3.68E-07	1.49E-08	0.00E+00	8.12E-07	6.54E-08	5.67E-08	2.26E-09	0.00E+00	1.24E-07	3.32E-08	2.47E-08	8.18E-10	0.00E+00	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2228	762223.01	4069445.71	3.73E-07	3.20E-07	1.29E-08	0.00E+00	7.05E-07	5.68E-08	4.93E-08	1.96E-09	0.00E+00	1.08E-07	2.88E-08	2.15E-08	7.10E-10	0.00E+00	5.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2229	762198.24	4069444.53	3.24E-07	2.78E-07	1.13E-08	0.00E+00	6.14E-07	4.94E-08	4.29E-08	1.71E-09	0.00E+00	9.40E-08	2.51E-08	1.87E-08	6.18E-10	0.00E+00	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2230	762173.47	4069443.35	2.79E-07	2.39E-07	9.67E-09	0.00E+00	5.27E-07	4.24E-08	3.68E-08	1.47E-09	0.00E+00	8.07E-08	2.15E-08	1.61E-08	5.31E-10	0.00E+00	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2231	762148.7	4069442.17	2.37E-07	2.03E-07	8.21E-09	0.00E+00	4.48E-07	3.60E-08	3.13E-08	1.24E-09	0.00E+00	6.86E-08	1.83E-08	1.36E-08	4.51E-10	0.00E+00	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2232	762123.93	4069440.99	2.00E-07	1.72E-07	6.94E-09	0.00E+00	3.78E-07	3.05E-08	2.64E-08	1.05E-09	0.00E+00	5.80E-08	1.55E-08	1.15E-08	3.81E-10	0.00E+00	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2233	762099.16	4069439.81	1.69E-07	1.45E-07	5.86E-09	0.00E+00	3.19E-07	2.57E-08	2.23E-08	8.88E-10	0.00E+00	4.89E-08	1.30E-08	9.74E-09	3.22E-10	0.00E+00	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2234	762074.39	4069438.64	1.43E-07	1.22E-07	4.95E-09	0.00E+00	2.70E-07	2.17E-08	1.89E-08	7.50E-10	0.00E+00	4.13E-08	1.10E-08	8.23E-09	2.72E-10	0.00E+00	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2235	762049.61	4069437.46	1.21E-07	1.04E-07	4.19E-09	0.00E+00	2.29E-07	1.84E-08	1.60E-08	6.35E-10	0.00E+00	3.50E-08	9.34E-09	6.97E-09	2.30E-10	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2236	762024.84	4069436.28	1.03E-07	8.82E-08	3.57E-09	0.00E+00	1.95E-07	1.57E-08	1.36E-08	5.41E-10	0.00E+00	2.98E-08	7.95E-09	5.93E-09	1.96E-10	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2237	762000.07	4069435.1	8.82E-08	7.56E-08	3.06E-09	0.00E+00	1.67E-07	1.34E-08	1.17E-08	4.64E-10	0.00E+00	2.56E-08	6.82E-09	5.09E-09	1.68E-10	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2238	761975.3	4069433.92	7.63E-08	6.54E-08	2.65E-09	0.00E+00	1.44E-07	1.16E-08	1.01E-08	4.01E-10	0.00E+00	2.21E-08	5.89E-09	4.40E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2239	761950.53	4069432.75	6.67E-08	5.72E-08	2.31E-09	0.00E+00	1.26E-07	1.02E-08	8.82E-09	3.51E-10	0.00E+00	1.93E-08	5.15E-09	3.85E-09	1.27E-10	0.00E+00	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2240	761925.76	4069431.57	5.91E-08	5.07E-08	2.05E-09	0.00E+00	1.12E-07	9.01E-09	7.81E-09	3.11E-10	0.00E+00	1.71E-08	4.57E-09	3.41E-09	1.13E-10	0.00E+00	8.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2241	762345.79	4069410.32	5.46E-07	4.68E-07	1.89E-08	0.00E+00	1.03E-06	8.32E-08	7.22E-08	2.87E-09	0.00E+00	1.58E-07	4.22E-08	3.15E-08	1.04E-09	0.00E+00	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2242	762367.11	4069420.17	6.14E-07	5.27E-07	2.13E-08	0.00E+00	1.16E-06	9.36E-08	8.12E-08	3.23E-09	0.00E+00	1.78E-07	4.75E-08	3.54E-08	1.17E-09	0.00E+00	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2243	762388.43	4069430.01	6.89E-07	5.91E-07	2.39E-08	0.00E+00	1.30E-06	1.05E-07	9.10E-08	3.62E-09	0.00E+00	2.00E-07	5.32E-08	3.97E-08	1.31E-09	0.00E+00	9.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2244	762409.74	4069439.86	7.60E-07	6.52E-07	2.64E-08	0.00E+00	1.44E-06	1.16E-07	1.00E-07	4.00E-09	0.00E+00	2.20E-07	5.87E-08	4.38E-08	1.45E-09	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2245	762431.06	4069449.7	8.35E-07	7.16E-07	2.90E-08	0.00E+00	1.58E-06	1.27E-07	1.10E-07	4.39E-09	0.00E+00	2.42E-07	6.45E-08	4.81E-08	1.59E-09	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2246	762452.38	4069459.55	9.09E-07	7.79E-07	3.16E-08	0.00E+00	1.72E-06	1.39E-07	1.20E-07	4.78E-09	0.00E+00	2.63E-07	7.03E-08	5.24E-08	1.73E-09	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2247	762473.7	4069469.4	9.79E-07	8.40E-07	3.40E-08	0.00E+00	1.85E-06	1.49E-07	1.29E-07	5.15E-09	0.00E+00	2.84E-07	7.57E-08	5.65E-08	1.87E-09	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2248	762495.01	4069479.24	1.04E-06	8.91E-07	3.61E-08	0.00E+00	1.97E-06	1.58E-07	1.37E-07	5.47E-09	0.00E+00	3.01E-07	8.03E-08	5.99E-08	1.98E-09	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2249	762516.33	4069489.09	1.09E-06	9.33E-07	3.78E-08	0.00E+00	2.06E-06	1.66E-07	1.44E-07	5.73E-09	0.00E+00	3.15E-07	8.41E-08	6.28E-08	2.07E-09	0.00						

2337	76230.77	4069310.54	3.34E-07	2.87E-07	1.16E-08	0.00E+00	6.33E-07	5.09E-08	4.42E-08	1.76E-09	0.00E+00	9.69E-08	2.58E-08	1.93E-08	6.37E-10	0.00E+00	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2338	762372.31	4069320.49	3.85E-07	3.30E-07	1.34E-08	0.00E+00	7.29E-07	5.87E-08	5.09E-08	2.03E-09	0.00E+00	1.12E-07	2.98E-08	2.22E-08	7.34E-10	0.00E+00	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2339	762393.85	4069330.44	4.37E-07	3.75E-07	1.52E-08	0.00E+00	8.27E-07	6.66E-08	5.78E-08	2.30E-09	0.00E+00	1.27E-07	3.38E-08	2.52E-08	8.83E-10	0.00E+00	5.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2340	762415.39	4069340.39	4.91E-07	4.21E-07	1.70E-08	0.00E+00	9.29E-07	7.48E-08	6.42E-08	2.58E-09	0.00E+00	1.42E-07	3.79E-08	2.83E-08	9.36E-10	0.00E+00	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2341	762436.93	4069350.34	5.46E-07	4.69E-07	1.90E-08	0.00E+00	1.03E-06	8.33E-08	7.29E-08	2.87E-09	0.00E+00	1.58E-07	4.22E-08	3.15E-08	1.04E-09	0.00E+00	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2342	762458.48	4069360.29	6.03E-07	5.17E-07	2.09E-08	0.00E+00	1.14E-06	9.19E-08	7.97E-08	3.17E-09	0.00E+00	1.75E-07	4.66E-08	3.48E-08	1.15E-09	0.00E+00	8.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2343	762480.02	4069370.23	6.59E-07	5.65E-07	2.29E-08	0.00E+00	1.25E-06	1.00E-07	8.72E-08	3.47E-09	0.00E+00	1.91E-07	5.10E-08	3.80E-08	1.26E-09	0.00E+00	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2344	762501.56	4069380.18	7.14E-07	6.12E-07	2.48E-08	0.00E+00	1.35E-06	1.09E-07	9.43E-08	3.75E-09	0.00E+00	2.07E-07	5.51E-08	4.12E-08	1.36E-09	0.00E+00	9.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2345	762523.11	4069390.13	7.62E-07	6.54E-07	2.65E-08	0.00E+00	1.44E-06	1.16E-07	1.01E-07	4.01E-09	0.00E+00	2.21E-07	5.89E-08	4.40E-08	1.45E-09	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2346	762544.64	4069400.08	8.04E-07	6.90E-07	2.79E-08	0.00E+00	1.52E-06	1.23E-07	1.06E-07	4.23E-09	0.00E+00	2.33E-07	6.22E-08	4.64E-08	1.53E-09	0.00E+00	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2347	762566.19	4069410.03	8.43E-07	7.23E-07	2.93E-08	0.00E+00	1.60E-06	1.29E-07	1.12E-07	4.44E-09	0.00E+00	2.44E-07	6.52E-08	4.87E-08	1.61E-09	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2348	762587.73	4069419.98	8.75E-07	7.54E-07	3.05E-08	0.00E+00	1.66E-06	1.34E-07	1.16E-07	4.63E-09	0.00E+00	2.55E-07	6.80E-08	5.07E-08	1.68E-09	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2349	762609.27	4069429.93	9.01E-07	7.73E-07	3.13E-08	0.00E+00	1.71E-06	1.37E-07	1.19E-07	4.74E-09	0.00E+00	2.61E-07	6.97E-08	5.20E-08	1.72E-09	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2350	762630.81	4069439.88	9.13E-07	7.82E-07	3.17E-08	0.00E+00	1.73E-06	1.39E-07	1.21E-07	4.80E-09	0.00E+00	2.64E-07	7.05E-08	5.26E-08	1.74E-09	0.00E+00	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2351	762652.35	4069449.83	9.13E-0																		

2467	762753.48	4069292.38	6.23E-07	5.34E-07	2.16E-08	0.00E+00	1.18E-06	9.49E-08	8.23E-08	3.28E-09	0.00E+00	1.80E-07	4.81E-08	3.59E-08	1.19E-09	0.00E+00	8.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2468	762775.31	4069302.46	6.24E-07	5.35E-07	2.17E-08	0.00E+00	1.18E-06	9.51E-08	8.25E-08	3.28E-09	0.00E+00	1.81E-07	4.83E-08	3.60E-08	1.19E-09	0.00E+00	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2469	762797.14	4069312.54	6.21E-07	5.33E-07	2.16E-08	0.00E+00	1.18E-06	9.46E-08	8.21E-08	3.27E-09	0.00E+00	1.80E-07	4.80E-08	3.58E-08	1.18E-09	0.00E+00	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2470	762818.97	4069322.62	6.13E-07	5.26E-07	2.13E-08	0.00E+00	1.16E-06	9.34E-08	8.11E-08	3.23E-09	0.00E+00	1.78E-07	4.74E-08	3.54E-08	1.17E-09	0.00E+00	8.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2471	762840.8	4069332.71	6.03E-07	5.17E-07	2.09E-08	0.00E+00	1.14E-06	9.19E-08	7.98E-08	3.17E-09	0.00E+00	1.75E-07	4.66E-08	3.48E-08	1.15E-09	0.00E+00	8.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2472	762862.63	4069342.79	5.89E-07	5.05E-07	2.04E-08	0.00E+00	1.11E-06	8.98E-08	7.79E-08	3.10E-09	0.00E+00	1.71E-07	4.55E-08	3.40E-08	1.12E-09	0.00E+00	8.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2473	762893.1	4069375.31	5.66E-07	4.86E-07	1.97E-08	0.00E+00	1.07E-06	8.63E-08	7.49E-08	2.98E-09	0.00E+00	1.64E-07	4.38E-08	3.27E-08	1.08E-09	0.00E+00	7.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2474	762901.75	4069397.74	5.56E-07	4.77E-07	1.93E-08	0.00E+00	1.05E-06	8.47E-08	7.35E-08	2.93E-09	0.00E+00	1.61E-07	4.30E-08	3.21E-08	1.06E-09	0.00E+00	7.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2475	762910.39	4069420.18	5.42E-07	4.65E-07	1.88E-08	0.00E+00	1.03E-06	8.26E-08	7.17E-08	2.85E-09	0.00E+00	1.57E-07	4.19E-08	3.13E-08	1.03E-09	0.00E+00	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2476	762919.04	4069442.62	5.24E-07	4.50E-07	1.82E-08	0.00E+00	9.92E-07	7.99E-08	6.93E-08	2.76E-09	0.00E+00	1.52E-07	4.05E-08	3.02E-08	1.00E-09	0.00E+00	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2477	762927.68	4069465.05	5.04E-07	4.32E-07	1.75E-08	0.00E+00	9.53E-07	7.67E-08	6.66E-08	2.65E-09	0.00E+00	1.46E-07	3.89E-08	2.90E-08	9.60E-10	0.00E+00	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2478	762936.33	4069487.49	4.80E-07	4.12E-07	1.67E-08	0.00E+00	9.08E-07	7.32E-08	6.35E-08	2.53E-09	0.00E+00	1.39E-07	3.71E-08	2.77E-08	9.15E-10	0.00E+00	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2479	762944.98	4069509.93	4.55E-07	3.90E-07	1.58E-08	0.00E+00	8.61E-07	6.93E-08	6.01E-08	2.39E-09	0.00E+00	1.32E-07	3.52E-08	2.62E-08	8.67E-10	0.00E+00	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2480	762953.62	4069532.37	4.28E-07	3.67E-07	1.49E-08	0.00E+00	8.10E-07	6.52E-08	5.66E-08	2.25E-09	0.00E+00	1.24E-07	3.31E-08	2.47E-08	8.16E-10	0.00E+00	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2481	762962.27	4069554.8	3.99E-07	3.42E-07	1.39E-08	0.00E+00	7.56E-07	6.09E-08	5.28E-08	2.10E-09	0.00E+00	1.16E-07	3.09E-08	2.30E-08	7.61E-10	0.00E+00	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2482	762970.91	4069577.24	3.72E-07	3.19E-07	1.29E-08	0.00E+00	7.03E-07	5.66E-08	4.91E-08	1.96E-09	0.00E+00	1.08E-07	2.87E-08	2.14E-08	7.08E-10	0.00E+00	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2483	762979.56	4069599.68	3.45E-07	2.96E-07	1.20E-08	0.00E+00	6.53E-07	5.26E-08	4.56E-08	1.81E-09	0.00E+00	1.00E-07	2.67E-08	1.99E-08	6.58E-10	0.00E+00	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2484	762988.2	4069622.11	3.20E-07	2.74E-07	1.11E-08	0.00E+00	6.06E-07	4.88E-08	4.23E-08	1.68E-09	0.00E+00	9.28E-08	2.47E-08	1.85E-08	6.10E-10	0.00E+00	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2485	762996.85	4069644.55	2.96E-07	2.54E-07	1.03E-08	0.00E+00	5.60E-07	4.51E-08	3.92E-08	1.56E-09	0.00E+00	8.58E-08	2.29E-08	1.71E-08	5.65E-10	0.00E+00	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2486	763005.5	4069666.99	2.72E-07	2.33E-07	9.45E-09	0.00E+00	5.15E-07	4.15E-08	3.60E-08	1.43E-09	0.00E+00	7.89E-08	2.10E-08	1.57E-08	5.19E-10	0.00E+00	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2487	763014.14	4069689.42	2.50E-07	2.14E-07	8.68E-09	0.00E+00	4.73E-07	3.81E-08	3.31E-08	1.32E-09	0.00E+00	7.25E-08	1.93E-08	1.44E-08	4.77E-10	0.00E+00	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2488	763022.79	4069711.86	2.30E-07	1.97E-07	7.97E-09	0.00E+00	4.35E-07	3.50E-08	3.04E-08	1.21E-09	0.00E+00	6.66E-08	1.77E-08	1.32E-08	4.38E-10	0.00E+00	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2489	763031.43	4069734.3	2.09E-07	1.79E-07	7.26E-09	0.00E+00	3.96E-07	3.19E-08	2.76E-08	1.10E-09	0.00E+00	6.06E-08	1.62E-08	1.21E-08	3.99E-10	0.00E+00	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2490	763040.08	4069756.74	1.92E-07	1.64E-07	6.66E-09	0.00E+00	3.63E-07	2.92E-08	2.54E-08	1.01E-09	0.00E+00	5.56E-08	1.48E-08	1.11E-08	3.66E-10	0.00E+00	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2491	763048.72	4069779.17	1.76E-07	1.51E-07	6.11E-09	0.00E+00	3.33E-07	2.68E-08	2.33E-08	9.26E-10	0.00E+00	5.10E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2492	763057.37	4069801.61	1.61E-07	1.38E-07	5.59E-09	0.00E+00	3.05E-07	2.45E-08	2.13E-08	8.47E-10	0.00E+00	4.67E-08	1.24E-08	9.29E-09	3.07E-10	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2493	763066.02	4069824.05	1.47E-07	1.26E-07	5.11E-09	0.00E+00	2.79E-07	2.25E-08	1.95E-08	7.75E-10	0.00E+00	4.27E-08	1.14E-08	8.50E-09	2.81E-10	0.00E+00	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2494	763074.66	4069846.48	1.36E-07	1.16E-07	4.72E-09	0.00E+00	2.57E-07	2.07E-08	1.80E-08	7.15E-10	0.00E+00	3.94E-08	1.05E-08	7.84E-09	2.59E-10	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2495	763083.31	4069868.92	1.26E-07	1.08E-07	4.36E-09	0.00E+00	2.38E-07	1.91E-08	1.66E-08	6.61E-10	0.00E+00	3.64E-08	9.71E-09	7.25E-09	2.40E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2496	763091.95	4069891.36	1.16E-07	9.98E-08	4.04E-09	0.00E+00	2.20E-07	1.77E-08	1.54E-08	6.13E-10	0.00E+00	3.37E-08	9.00E-09	6.72E-09	2.22E-10	0.00E+00	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2497	762338.73	4069100.81	1.39E-07	1.19E-07	4.81E-09	0.00E+00	2.62E-07	2.11E-08	1.83E-08	7.29E-10	0.00E+00	4.02E-08	1.07E-08	8.00E-09	2.64E-10	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2498	762313.95	4069099.64	1.25E-07	1.07E-07	4.34E-09	0.00E+00	2.37E-07	1.91E-08	1.65E-08	6.58E-10	0.00E+00	3.63E-08	9.67E-09	7.22E-09	2.35E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2499	762289.18	4069098.46	1.13E-07	9.67E-08	3.91E-09	0.00E+00	2.13E-07	1.72E-08	1.49E-08	5.93E-10	0.00E+00	3.27E-08	8.72E-09	6.51E-09	2.19E-10	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2500	762264.41	4069097.28	1.02E-07	8.72E-08	3.53E-09	0.00E+00	1.93E-07	1.55E-08	1.35E-08	5.35E-10	0.00E+00	2.95E-08	7.86E-09	5.87E-09	1.94E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2501	762239.64	4069096.1	9.19E-08	7.88E-08	3.19E-09	0.00E+00	1.74E-07	1.40E-08	1.22E-08	4.84E-10	0.00E+00	2.66E-08	7.11E-09	5.30E-09	1.75E-10	0.00E+00	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2502	762214.87	4069094.92	8.33E-08	7.14E-08	2.89E-09	0.00E+00	1.58E-07	1.27E-08	1.10E-08	4.38E-10	0.00E+00	2.41E-08	6.44E-09	4.81E-09	1.59E-10	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2503	762190.1	4069093.74	7.55E-08	6.47E-08	2.62E-09	0.00E+00	1.43E-07	1.15E-08	9.98E-09	3.97E-10	0.00E+00	2.19E-08	5.84E-09	4.36E-09	1.44E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2504	762165.33	4069092.57	6.86E-08	5.88E-08	2.38E-09	0.00E+00	1.30E-07	1.05E-08	9.07E-09	3.61E-10	0.00E+00	1.99E-08	5.30E-09	3.96E-09	1.31E-10	0.00E+00	9.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2505	762140.56	4069091.39	6.25E-08	5.36E-08	2.17E-09	0.00E+00	1.18E-07	9.52E-09	8.26E-09	3.29E-10	0.00E+00	1.81E-08	4.83E-09	3.60E-09	1.19E-10	0.00E+00	8.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2506	762115.78	4069090.21	5.69E-08	4.88E-08	1.98E-09	0.00E+00	1.08E-07	8.67E-09	7.52E-09	2.99E-10	0.00E+00	1.65E-08	4.40E-09	3.28E-09	1.08E-10	0.00E+00	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2507	762091.01	4069089.03	5.15E-08	4.41E-08	1.79E-09	0.00E+00	9.74E-08	7.84E-09	6.81E-09	2.71E-10	0.00E+00	1.49E-08	3.98E-09	2.97E-09	9.81E-11	0.00E+00	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2508	762066.24	4069087.85	4.67E-08	4.00E-08	1.62E-09	0.00E+00	8.83E-08	7.11E-09	6.17E-09	2.45E-10	0.00E+00	1.35E-08	3.61E-09	2.69E-09	8.89E-11	0.00E+00	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2509	762041.47	4069086.68	4.21E-08	3.61E-08	1.46E-09	0.00E+00	7.96E-08	6.41E-09	5.56E-09	2.21E-10	0.00E+00	1.22E-08	3.25E-09	2.43E-09	8.02E-11	0.0						

2597	762634.29	4069033.17	2.74E-07	2.35E-07	9.51E-09	0.00E+00	5.19E-07	4.18E-08	3.62E-08	1.44E-09	0.00E+00	7.94E-08	2.12E-08	1.58E-08	5.23E-10	0.00E+00	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2598	762656.3	4069043.33	2.95E-07	2.53E-07	1.02E-08	0.00E+00	5.58E-07	4.49E-08	3.90E-08	1.55E-09	0.00E+00	8.54E-08	2.28E-08	1.70E-08	5.62E-10	0.00E+00	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2599	762678.31	4069053.49	3.19E-07	2.74E-07	1.11E-08	0.00E+00	6.04E-07	4.87E-08	4.22E-08	1.68E-09	0.00E+00	9.26E-08	2.47E-08	1.84E-08	6.09E-10	0.00E+00	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2600	762700.31	4069063.66	3.41E-07	2.93E-07	1.18E-08	0.00E+00	6.46E-07	5.20E-08	4.51E-08	1.80E-09	0.00E+00	9.89E-08	2.64E-08	1.97E-08	6.51E-10	0.00E+00	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2601	762722.32	4069073.82	3.62E-07	3.11E-07	1.26E-08	0.00E+00	6.85E-07	5.52E-08	4.79E-08	1.91E-09	0.00E+00	1.05E-07	2.80E-08	2.09E-08	6.90E-10	0.00E+00	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2602	762744.32	4069083.98	3.82E-07	3.27E-07	1.33E-08	0.00E+00	7.23E-07	5.82E-08	5.05E-08	2.01E-09	0.00E+00	1.11E-07	2.95E-08	2.20E-08	7.28E-10	0.00E+00	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2603	762766.33	4069094.15	4.00E-07	3.43E-07	1.39E-08	0.00E+00	7.57E-07	6.10E-08	5.29E-08	2.11E-09	0.00E+00	1.16E-07	3.09E-08	2.31E-08	7.63E-10	0.00E+00	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2604	762788.33	4069104.31	4.17E-07	3.57E-07	1.45E-08	0.00E+00	7.89E-07	6.35E-08	5.51E-08	2.19E-09	0.00E+00	1.21E-07	3.22E-08	2.40E-08	7.95E-10	0.00E+00	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2605	762810.34	4069114.47	4.31E-07	3.70E-07	1.50E-08	0.00E+00	8.16E-07	6.57E-08	5.70E-08	2.27E-09	0.00E+00	1.25E-07	3.33E-08	2.49E-08	8.22E-10	0.00E+00	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2606	762832.34	4069124.64	4.43E-07	3.80E-07	1.54E-08	0.00E+00	8.39E-07	6.75E-08	5.86E-08	2.33E-09	0.00E+00	1.28E-07	3.43E-08	2.56E-08	8.45E-10	0.00E+00	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2607	762854.35	4069134.8	4.53E-07	3.88E-07	1.57E-08	0.00E+00	8.56E-07	6.90E-08	5.98E-08	2.38E-09	0.00E+00	1.31E-07	3.50E-08	2.61E-08	8.63E-10	0.00E+00	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2608	762876.35	4069144.97	4.59E-07	3.94E-07	1.59E-08	0.00E+00	8.69E-07	7.00E-08	6.07E-08	2.42E-09	0.00E+00	1.33E-07	3.55E-08	2.65E-08	8.75E-10	0.00E+00	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2609	762898.36	4069155.13	4.63E-07	3.97E-07	1.61E-08	0.00E+00	8.76E-07	7.06E-08	6.12E-08	2.44E-09	0.00E+00	1.34E-07	3.58E-08	2.67E-08	8.83E-10	0.00E+00	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2610	762920.36	4069165.29	4.62E-07	3.96E-07	1.60E-08	0.00E+00	8.74E-07	7.04E-08	6.11E-08	2.43E-09	0.00E+00	1.34E-07	3.57E-08	2.67E-08	8.81E-10	0.00E+00	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2611	762942.37	4069175.46	4.59E-07	3.94E-07	1.59E-08	0.00E+00	8.69E-07	7.00E-08	6.07E-08	2.42E-09	0.00E+00	1.33E-07	3.55E-08	2.65E-08	8.76E-10	0.00E+00	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2612	762964.37	4069185.62	4.55E-07	3.90E-07	1.58E-08	0.00E+00	8.61E-07	6.93E-08	6.01E-08	2.39E-09	0.00E+00	1.32E-07	3.52E-08	2.62E-08	8.67E-10	0.00E+00	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2613	762986.38	4069195.78	4.48E-07	3.84E-07	1.55E-08	0.00E+00	8.47E-07	6.82E-08	5.92E-08	2.36E-09	0.00E+00	1.30E-07	3.46E-08	2.58E-08	8.54E-10	0.00E+00	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2614	763008.38	4069205.95	4.39E-07	3.76E-07	1.52E-08	0.00E+00	8.30E-07	6.69E-08	5.80E-08	2.31E-09	0.00E+00	1.27E-07	3.39E-08	2.53E-08	8.36E-10	0.00E+00	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2615	763039.11	4069238.73	4.25E-07	3.64E-07	1.48E-08	0.00E+00	8.04E-07	6.48E-08	5.62E-08	2.24E-09	0.00E+00	1.23E-07	3.29E-08	2.45E-08	8.10E-10	0.00E+00	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2616	763047.82	4069261.35	4.20E-07	3.60E-07	1.46E-08	0.00E+00	7.94E-07	6.39E-08	5.55E-08	2.21E-09	0.00E+00	1.22E-07	3.24E-08	2.42E-08	8.00E-10	0.00E+00	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2617	763056.54	4069283.96	4.10E-07	3.52E-07	1.42E-08	0.00E+00	7.76E-07	6.25E-08	5.42E-08	2.16E-09	0.00E+00	1.19E-07	3.17E-08	2.37E-08	7.82E-10	0.00E+00	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2618	763065.25	4069306.58	4.01E-07	3.44E-07	1.39E-08	0.00E+00	7.58E-07	6.11E-08	5.30E-08	2.11E-09	0.00E+00	1.16E-07	3.10E-08	2.31E-08	7.64E-10	0.00E+00	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2619	763073.97	4069329.2	3.90E-07	3.34E-07	1.35E-08	0.00E+00	7.37E-07	5.94E-08	5.15E-08	2.05E-09	0.00E+00	1.13E-07	3.01E-08	2.25E-08	7.43E-10	0.00E+00	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2620	763082.68	4069351.82	3.76E-07	3.23E-07	1.31E-08	0.00E+00	7.12E-07	5.74E-08	4.98E-08	1.98E-09	0.00E+00	1.09E-07	2.91E-08	2.17E-08	7.18E-10	0.00E+00	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2621	763091.4	4069374.44	3.63E-07	3.11E-07	1.26E-08	0.00E+00	6.86E-07	5.53E-08	4.80E-08	1.91E-09	0.00E+00	1.05E-07	2.80E-08	2.09E-08	6.91E-10	0.00E+00	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2622	763100.11	4069397.05	3.48E-07	2.98E-07	1.21E-08	0.00E+00	6.58E-07	5.29E-08	4.59E-08	1.83E-09	0.00E+00	1.01E-07	2.69E-08	2.00E-08	6.62E-10	0.00E+00	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2623	763108.83	4069419.67	3.31E-07	2.84E-07	1.15E-08	0.00E+00	6.26E-07	5.04E-08	4.37E-08	1.74E-09	0.00E+00	9.59E-08	2.56E-08	1.91E-08	6.30E-10	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2624	763117.54	4069442.29	3.13E-07	2.69E-07	1.09E-08	0.00E+00	5.93E-07	4.78E-08	4.14E-08	1.65E-09	0.00E+00	9.08E-08	2.42E-08	1.81E-08	5.97E-10	0.00E+00	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2625	763126.26	4069464.91	2.97E-07	2.54E-07	1.03E-08	0.00E+00	5.61E-07	4.52E-08	3.92E-08	1.56E-09	0.00E+00	8.60E-08	2.29E-08	1.71E-08	5.65E-10	0.00E+00	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2626	763134.98	4069487.53	2.80E-07	2.40E-07	9.71E-09	0.00E+00	5.29E-07	4.26E-08	3.70E-08	1.47E-09	0.00E+00	8.10E-08	2.16E-08	1.61E-08	5.33E-10	0.00E+00	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2627	763143.69	4069510.14	2.63E-07	2.25E-07	9.12E-09	0.00E+00	4.97E-07	4.00E-08	3.47E-08	1.38E-09	0.00E+00	7.62E-08	2.03E-08	1.52E-08	5.01E-10	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2628	763152.41	4069532.76	2.46E-07	2.11E-07	8.54E-09	0.00E+00	4.66E-07	3.75E-08	3.25E-08	1.29E-09	0.00E+00	7.13E-08	1.90E-08	1.42E-08	4.69E-10	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2629	763161.12	4069555.38	2.30E-07	1.97E-07	7.98E-09	0.00E+00	4.35E-07	3.50E-08	3.04E-08	1.21E-09	0.00E+00	6.67E-08	1.78E-08	1.33E-08	4.38E-10	0.00E+00	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2630	763169.84	4069578	2.15E-07	1.85E-07	7.47E-09	0.00E+00	4.07E-07	3.28E-08	2.85E-08	1.13E-09	0.00E+00	6.24E-08	1.66E-08	1.24E-08	4.10E-10	0.00E+00	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2631	763178.55	4069600.61	2.01E-07	1.73E-07	6.99E-09	0.00E+00	3.81E-07	3.07E-08	2.66E-08	1.06E-09	0.00E+00	5.84E-08	1.56E-08	1.16E-08	3.84E-10	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2632	763187.27	4069623.23	1.89E-07	1.62E-07	6.55E-09	0.00E+00	3.57E-07	2.88E-08	2.50E-08	9.93E-10	0.00E+00	5.47E-08	1.46E-08	1.09E-08	3.60E-10	0.00E+00	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2633	763195.98	4069645.85	1.76E-07	1.51E-07	6.11E-09	0.00E+00	3.33E-07	2.68E-08	2.33E-08	9.26E-10	0.00E+00	5.10E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2634	763204.7	4069668.47	1.64E-07	1.40E-07	5.69E-09	0.00E+00	3.10E-07	2.50E-08	2.17E-08	8.62E-10	0.00E+00	4.75E-08	1.27E-08	9.45E-09	3.12E-10	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2635	763213.41	4069691.09	1.53E-07	1.31E-07	5.29E-09	0.00E+00	2.89E-07	2.32E-08	2.02E-08	8.03E-10	0.00E+00	4.42E-08	1.18E-08	8.80E-09	2.91E-10	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2636	763222.13	4069713.7	1.42E-07	1.21E-07	4.92E-09	0.00E+00	2.68E-07	2.16E-08	1.87E-08	7.45E-10	0.00E+00	4.11E-08	1.09E-08	8.17E-09	2.70E-10	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2637	763230.85	4069736.32	1.32E-07	1.13E-07	4.59E-09	0.00E+00	2.50E-07	2.01E-08	1.75E-08	6.95E-10	0.00E+00	3.83E-08	1.02E-08	7.62E-09	2.52E-10	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2638	763239.56	4069758.94	1.23E-07	1.05E-07	4.27E-09	0.00E+00	2.33E-07	1.87E-08	1.63E-08	6.47E-10	0.00E+00	3.57E-08	9.51E-09	7.10E-09	2.35E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2639	763248.28	4069781.56	1.15E-07	9.83E-08	3.98E-09	0.00E+00	2.17E-07	1.75E-08	1.52E-08	6.03E-10	0.00E+00	3.32E-08	8.86E-09	6.61E-09	2.19E-10	0.00						

2727	763391.81	4069896.32	7.28E-08	6.25E-08	2.53E-09	0.00E+00	1.38E-07	1.11E-08	9.63E-09	3.83E-10	0.00E+00	2.11E-08	5.63E-09	4.20E-09	1.39E-10	0.00E+00	9.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2728	762352.98	4068801.15	6.71E-08	5.75E-08	2.33E-09	0.00E+00	1.27E-07	1.02E-08	8.86E-09	3.53E-10	0.00E+00	1.94E-08	5.18E-09	3.87E-09	1.28E-10	0.00E+00	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2729	762328.21	4068799.97	6.23E-08	5.34E-08	2.16E-09	0.00E+00	1.18E-07	9.49E-09	8.24E-09	3.28E-10	0.00E+00	1.81E-08	4.82E-09	3.59E-09	1.19E-10	0.00E+00	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2730	762303.43	4068798.8	5.80E-08	4.97E-08	2.01E-09	0.00E+00	1.10E-07	8.84E-09	7.67E-09	3.05E-10	0.00E+00	1.68E-08	4.48E-09	3.35E-09	1.11E-10	0.00E+00	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2731	762278.66	4068797.62	5.43E-08	4.65E-08	1.88E-09	0.00E+00	1.03E-07	8.27E-09	7.17E-09	2.85E-10	0.00E+00	1.57E-08	4.19E-09	3.13E-09	1.03E-10	0.00E+00	7.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2732	762253.89	4068796.44	5.08E-08	4.36E-08	1.76E-09	0.00E+00	9.61E-08	7.74E-09	6.72E-09	2.67E-10	0.00E+00	1.47E-08	3.93E-09	2.93E-09	9.69E-11	0.00E+00	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2733	762229.12	4068795.26	4.75E-08	4.07E-08	1.65E-09	0.00E+00	8.99E-08	7.24E-09	6.28E-09	2.50E-10	0.00E+00	1.38E-08	3.67E-09	2.74E-09	9.06E-11	0.00E+00	6.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2734	762204.35	4068794.08	4.42E-08	3.79E-08	1.53E-09	0.00E+00	8.37E-08	6.74E-09	5.85E-09	2.33E-10	0.00E+00	1.28E-08	3.42E-09	2.55E-09	8.43E-11	0.00E+00	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2735	762179.58	4068792.91	4.11E-08	3.52E-08	1.43E-09	0.00E+00	7.77E-08	6.26E-09	5.43E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.83E-11	0.00E+00	5.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2736	762154.81	4068791.73	3.82E-08	3.28E-08	1.33E-09	0.00E+00	7.23E-08	5.82E-09	5.05E-09	2.01E-10	0.00E+00	1.11E-08	2.95E-09	2.20E-09	7.29E-11	0.00E+00	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2737	762130.04	4068790.55	3.55E-08	3.04E-08	1.23E-09	0.00E+00	6.71E-08	5.40E-09	4.69E-09	1.87E-10	0.00E+00	1.03E-08	2.74E-09	2.05E-09	6.76E-11	0.00E+00	4.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2738	762105.26	4068789.37	3.29E-08	2.82E-08	1.14E-09	0.00E+00	6.22E-08	5.01E-09	4.35E-09	1.73E-10	0.00E+00	9.53E-09	2.54E-09	1.90E-09	6.27E-11	0.00E+00	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2739	762080.49	4068788.19	3.05E-08	2.61E-08	1.06E-09	0.00E+00	5.76E-08	4.64E-09	4.03E-09	1.60E-10	0.00E+00	8.83E-09	2.35E-09	1.76E-09	5.80E-11	0.00E+00	4.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2740	762055.72	4068787.01	2.82E-08	2.42E-08	9.79E-10	0.00E+00	5.34E-08	4.30E-09	3.73E-09	1.48E-10	0.00E+00	8.17E-09	2.18E-09	1.63E-09	5.38E-11	0.00E+00	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2741	762030.95	4068785.84	2.61E-08	2.24E-08	9.06E-10	0.00E+00	4.94E-08	3.98E-09	3.45E-09	1.37E-10	0.00E+00	7.57E-09	2.02E-09	1.51E-09	4.98E-11	0.00E+00	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2742	762006.18	4068784.66	2.42E-08	2.08E-08	8.41E-10	0.00E+00	4.58E-08	3.69E-09	3.20E-09	1.27E-10	0.00E+00	7.02E-09	1.87E-09	1.40E-09	4.62E-11	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2743	761981.41	4068783.48	2.25E-08	1.93E-08	7.82E-10	0.00E+00	4.27E-08	3.43E-09	2.98E-09	1.19E-10	0.00E+00	6.53E-09	1.74E-09	1.30E-09	4.30E-11	0.00E+00	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2744	761956.64	4068782.3	2.11E-08	1.81E-08	7.32E-10	0.00E+00	3.99E-08	3.21E-09	2.79E-09	1.11E-10	0.00E+00	6.11E-09	1.63E-09	1.22E-09	4.02E-11	0.00E+00	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2745	762379.85	4068711.48	6.05E-08	5.18E-08	2.10E-09	0.00E+00	1.14E-07	9.21E-09	7.99E-09	3.18E-10	0.00E+00	1.75E-08	4.67E-09	3.49E-09	1.15E-10	0.00E+00	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2746	762401.98	4068721.7	6.51E-08	5.58E-08	2.26E-09	0.00E+00	1.23E-07	9.91E-09	8.60E-09	3.42E-10	0.00E+00	1.89E-08	5.03E-09	3.75E-09	1.24E-10	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2747	762424.1	4068731.92	7.02E-08	6.02E-08	2.44E-09	0.00E+00	1.33E-07	1.07E-08	9.28E-09	3.69E-10	0.00E+00	2.03E-08	5.43E-09	4.05E-09	1.34E-10	0.00E+00	9.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2748	762446.22	4068742.14	7.59E-08	6.51E-08	2.63E-09	0.00E+00	1.44E-07	1.16E-08	1.00E-08	3.99E-10	0.00E+00	2.20E-08	5.87E-09	4.38E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2749	762468.35	4068752.36	8.20E-08	7.03E-08	2.85E-09	0.00E+00	1.55E-07	1.25E-08	1.08E-08	4.32E-10	0.00E+00	2.38E-08	6.34E-09	4.73E-09	1.56E-10	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2750	762490.47	4068762.58	8.88E-08	7.62E-08	3.08E-09	0.00E+00	1.68E-07	1.35E-08	1.17E-08	4.67E-10	0.00E+00	2.57E-08	6.86E-09	5.12E-09	1.69E-10	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2751	762512.6	4068772.79	9.64E-08	8.26E-08	3.35E-09	0.00E+00	1.82E-07	1.47E-08	1.27E-08	5.07E-10	0.00E+00	2.79E-08	7.45E-09	5.56E-09	1.84E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2752	762534.72	4068783.01	1.05E-07	9.00E-08	3.64E-09	0.00E+00	1.99E-07	1.60E-08	1.39E-08	5.52E-10	0.00E+00	3.04E-08	8.11E-09	6.05E-09	2.00E-10	0.00E+00	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2753	762556.85	4068793.23	1.13E-07	9.72E-08	3.94E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.96E-10	0.00E+00	3.29E-08	8.76E-09	6.54E-09	2.16E-10	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2754	762578.97	4068803.45	1.23E-07	1.05E-07	4.26E-09	0.00E+00	2.32E-07	1.87E-08	1.62E-08	6.46E-10	0.00E+00	3.56E-08	9.48E-09	7.08E-09	2.34E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2755	762601.09	4068813.67	1.33E-07	1.14E-07	4.63E-09	0.00E+00	2.52E-07	2.03E-08	1.76E-08	7.02E-10	0.00E+00	3.87E-08	1.03E-08	7.70E-09	2.54E-10	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2756	762623.22	4068823.89	1.46E-07	1.25E-07	5.05E-09	0.00E+00	2.76E-07	2.22E-08	1.93E-08	7.66E-10	0.00E+00	4.22E-08	1.13E-08	8.40E-09	2.78E-10	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2757	762645.34	4068834.11	1.58E-07	1.36E-07	5.49E-09	0.00E+00	2.99E-07	2.41E-08	2.09E-08	8.32E-10	0.00E+00	4.59E-08	1.22E-08	9.13E-09	3.02E-10	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2758	762667.47	4068844.32	1.72E-07	1.47E-07	5.95E-09	0.00E+00	3.25E-07	2.61E-08	2.27E-08	9.02E-10	0.00E+00	4.97E-08	1.33E-08	9.89E-09	3.27E-10	0.00E+00	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2759	762689.59	4068854.54	1.85E-07	1.59E-07	6.43E-09	0.00E+00	3.50E-07	2.82E-08	2.45E-08	9.74E-10	0.00E+00	5.37E-08	1.43E-08	1.07E-08	3.53E-10	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2760	762711.72	4068864.76	1.99E-07	1.71E-07	6.91E-09	0.00E+00	3.77E-07	3.04E-08	2.63E-08	1.05E-09	0.00E+00	5.77E-08	1.54E-08	1.15E-08	3.80E-10	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2761	762733.84	4068874.98	2.15E-07	1.84E-07	7.46E-09	0.00E+00	4.07E-07	3.28E-08	2.84E-08	1.13E-09	0.00E+00	6.23E-08	1.66E-08	1.24E-08	4.10E-10	0.00E+00	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2762	762755.96	4068885.2	2.31E-07	1.98E-07	8.03E-09	0.00E+00	4.38E-07	3.53E-08	3.06E-08	1.22E-09	0.00E+00	6.71E-08	1.79E-08	1.33E-08	4.41E-10	0.00E+00	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2763	762778.09	4068895.42	2.47E-07	2.12E-07	8.58E-09	0.00E+00	4.68E-07	3.77E-08	3.27E-08	1.30E-09	0.00E+00	7.17E-08	1.91E-08	1.43E-08	4.71E-10	0.00E+00	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2764	762800.21	4068905.64	2.62E-07	2.25E-07	9.10E-09	0.00E+00	4.96E-07	4.00E-08	3.47E-08	1.38E-09	0.00E+00	7.60E-08	2.03E-08	1.51E-08	5.00E-10	0.00E+00	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2765	762822.34	4068915.85	2.77E-07	2.37E-07	9.61E-09	0.00E+00	5.24E-07	4.22E-08	3.66E-08	1.46E-09	0.00E+00	8.02E-08	2.14E-08	1.60E-08	5.28E-10	0.00E+00	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2766	762844.46	4068926.07	2.91E-07	2.49E-07	1.01E-08	0.00E+00	5.50E-07	4.43E-08	3.85E-08	1.53E-09	0.00E+00	8.43E-08	2.25E-08	1.68E-08	5.55E-10	0.00E+00	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2767	762866.58	4068936.29	3.04E-07	2.61E-07	1.06E-08	0.00E+00	5.76E-07	4.64E-08	4.02E-08	1.60E-09	0.00E+00	8.82E-08	2.35E-08	1.76E-08	5.80E-10	0.00E+00	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2768	762888.71	4068946.51	3.16E-07	2.71E-07	1.10E-08	0.00E+00	5.99E-07	4.82E-08	4.18E-08	1.66E-09	0.00E+00	9.17E-08	2.45E-08	1.83E-08	6.03E-10	0.00E+00	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2769	762910.83	4068956.73	3.27E-07	2.81E-07	1.14E-08	0.00E+00	6.20E-07	4.99E-08	4.33E-08	1.72E-09	0.00E+00	9.49E-08	2.53E-08	1.89E-08	6.24E-10	0						

2857	761850.59	4070121.08	2.17E-06	1.86E-06	7.54E-08	0.00E+00	4.11E-06	3.31E-07	2.87E-07	1.14E-08	0.00E+00	6.29E-07	1.68E-07	1.25E-07	4.14E-09	0.00E+00	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2858	761850.21	4070145.16	2.14E-06	1.83E-06	7.42E-08	0.00E+00	4.04E-06	3.26E-07	2.83E-07	1.12E-08	0.00E+00	6.19E-07	1.65E-07	1.23E-07	4.07E-09	0.00E+00	2.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2859	761849.83	4070169.24	2.03E-06	1.74E-06	7.05E-08	0.00E+00	3.85E-06	3.10E-07	2.69E-07	1.07E-08	0.00E+00	5.89E-07	1.57E-07	1.17E-07	3.87E-09	0.00E+00	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2860	761837.28	4069862.04	3.27E-07	2.80E-07	1.13E-08	0.00E+00	6.18E-07	4.98E-08	4.32E-08	1.72E-09	0.00E+00	9.47E-08	2.52E-08	1.88E-08	6.23E-10	0.00E+00	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2861	761871.35	4069819.63	2.91E-07	2.49E-07	1.01E-08	0.00E+00	5.50E-07	4.43E-08	3.84E-08	1.53E-09	0.00E+00	8.42E-08	2.25E-08	1.68E-08	5.54E-10	0.00E+00	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2862	761829.01	4069903.96	5.14E-07	4.41E-07	1.79E-08	0.00E+00	9.73E-07	7.84E-08	6.80E-08	2.71E-09	0.00E+00	1.49E-07	3.98E-08	2.97E-08	9.81E-10	0.00E+00	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2863	761828.63	4069928.04	6.89E-07	5.91E-07	2.39E-08	0.00E+00	1.30E-06	1.05E-07	9.12E-08	3.63E-09	0.00E+00	2.00E-07	5.33E-08	3.98E-08	1.31E-09	0.00E+00	9.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2864	761828.25	4069952.12	8.80E-07	7.55E-07	3.05E-08	0.00E+00	1.67E-06	1.34E-07	1.16E-07	4.63E-09	0.00E+00	2.55E-07	6.80E-08	5.08E-08	1.68E-09	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2865	761827.87	4069976.2	1.05E-06	9.03E-07	3.66E-08	0.00E+00	1.99E-06	1.60E-07	1.39E-07	5.54E-09	0.00E+00	3.05E-07	8.14E-08	6.08E-08	2.01E-09	0.00E+00	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2866	761827.49	4070000.28	1.21E-06	1.04E-06	4.21E-08	0.00E+00	2.30E-06	1.85E-07	1.61E-07	6.39E-09	0.00E+00	3.52E-07	9.39E-08	7.00E-08	2.31E-09	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2867	761827.11	4070024.36	1.35E-06	1.16E-06	4.70E-08	0.00E+00	2.56E-06	2.06E-07	1.79E-07	7.13E-09	0.00E+00	3.93E-07	1.05E-07	7.81E-08	2.58E-09	0.00E+00	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2868	761826.73	4070048.44	1.46E-06	1.25E-06	5.08E-08	0.00E+00	2.77E-06	2.23E-07	1.93E-07	7.69E-09	0.00E+00	4.24E-07	1.13E-07	8.44E-08	2.79E-09	0.00E+00	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2869	761826.35	4070072.52	1.54E-06	1.32E-06	5.35E-08	0.00E+00	2.92E-06	2.35E-07	2.04E-07	8.11E-09	0.00E+00	4.47E-07	1.19E-07	8.89E-08	2.94E-09	0.00E+00	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2870	761825.97	4070096.6	1.60E-06	1.37E-06	5.54E-08	0.00E+00	3.02E-06	2.43E-07	2.11E-07	8.39E-09	0.00E+00	4.62E-07	1.23E-07	9.20E-08	3.04E-09	0.00E+00	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2871	761825.59	4070120.68	1.62E-06	1.39E-06	5.62E-08	0.00E+00	3.06E-06	2.47E-07	2.14E-07	8.51E-09	0.00E+00	4.69E-07	1.25E-07	9.33E-08	3.08E-09	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2872	761825.21	4070144.77	1.61E-06	1.38E-06	5.60E-08	0.00E+00	3.05E-06	2.46E-07	2.13E-07	8.49E-09	0.00E+00	4.68E-07	1.25E-07	9.31E-08	3.08E-09	0.00E+00	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2873	761824.83	4070168.85	1.57E-06	1.35E-06	5.46E-08	0.00E+00	2.98E-06	2.40E-07	2.08E-07	8.27E-09	0.00E+00	4.56E-07	1.22E-07	9.07E-08	3.00E-09	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2874	761812.28	4069861.65	2.65E-07	2.27E-07	9.19E-09	0.00E+00	5.01E-07	4.04E-08	3.50E-08	1.39E-09	0.00E+00	7.68E-08	2.05E-08	1.53E-08	5.05E-10	0.00E+00	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2875	761828.05	4069825.98	2.11E-07	1.81E-07	7.31E-09	0.00E+00	3.98E-07	3.21E-08	2.78E-08	1.11E-09	0.00E+00	6.10E-08	1.63E-08	1.21E-08	4.01E-10	0.00E+00	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2876	761854.24	4069801.4	2.10E-07	1.80E-07	7.28E-09	0.00E+00	3.97E-07	3.19E-08	2.77E-08	1.10E-09	0.00E+00	6.07E-08	1.62E-08	1.21E-08	4.00E-10	0.00E+00	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2877	761804.01	4069903.56	3.88E-07	3.33E-07	1.35E-08	0.00E+00	7.35E-07	5.92E-08	5.13E-08	2.04E-09	0.00E+00	1.13E-07	3.00E-08	2.24E-08	7.40E-10	0.00E+00	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2878	761803.63	4069927.64	5.00E-07	4.29E-07	1.74E-08	0.00E+00	9.47E-07	7.62E-08	6.61E-08	2.63E-09	0.00E+00	1.45E-07	3.87E-08	2.89E-08	9.54E-10	0.00E+00	6.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2879	761803.25	4069951.72	6.30E-07	5.40E-07	2.19E-08	0.00E+00	1.19E-06	9.60E-08	8.33E-08	3.31E-09	0.00E+00	1.83E-07	4.87E-08	3.63E-08	1.20E-09	0.00E+00	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2880	761802.87	4069975.81	7.63E-07	6.54E-07	2.65E-08	0.00E+00	1.44E-06	1.16E-07	1.01E-07	4.01E-09	0.00E+00	2.21E-07	5.90E-08	4.40E-08	1.45E-09	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2881	761802.49	4069999.89	8.92E-07	7.65E-07	3.10E-08	0.00E+00	1.69E-06	1.36E-07	1.18E-07	4.70E-09	0.00E+00	2.59E-07	6.90E-08	5.15E-08	1.70E-09	0.00E+00	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2882	761802.11	4070023.97	1.01E-06	8.64E-07	3.50E-08	0.00E+00	1.91E-06	1.54E-07	1.33E-07	5.30E-09	0.00E+00	2.92E-07	7.79E-08	5.81E-08	1.92E-09	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2883	761801.73	4070048.05	1.10E-06	9.46E-07	3.83E-08	0.00E+00	2.09E-06	1.68E-07	1.46E-07	5.81E-09	0.00E+00	3.20E-07	8.53E-08	6.37E-08	2.10E-09	0.00E+00	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2884	761801.35	4070072.13	1.18E-06	1.01E-06	4.09E-08	0.00E+00	2.23E-06	1.80E-07	1.56E-07	6.21E-09	0.00E+00	3.42E-07	9.12E-08	6.81E-08	2.25E-09	0.00E+00	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2885	761800.97	4070096.21	1.24E-06	1.06E-06	4.29E-08	0.00E+00	2.34E-06	1.88E-07	1.63E-07	6.50E-09	0.00E+00	3.58E-07	9.55E-08	7.13E-08	2.36E-09	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2886	761800.59	4070120.29	1.27E-06	1.09E-06	4.41E-08	0.00E+00	2.40E-06	1.93E-07	1.68E-07	6.68E-09	0.00E+00	3.68E-07	9.81E-08	7.32E-08	2.42E-09	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2887	761800.21	4070144.37	1.28E-06	1.10E-06	4.45E-08	0.00E+00	2.42E-06	1.95E-07	1.69E-07	6.74E-09	0.00E+00	3.71E-07	9.90E-08	7.39E-08	2.44E-09	0.00E+00	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2888	761799.83	4070168.45	1.27E-06	1.09E-06	4.40E-08	0.00E+00	2.40E-06	1.93E-07	1.68E-07	6.67E-09	0.00E+00	3.67E-07	9.80E-08	7.31E-08	2.42E-09	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2889	761787.28	4069861.25	2.23E-07	1.92E-07	7.75E-09	0.00E+00	4.23E-07	3.40E-08	2.95E-08	1.18E-09	0.00E+00	6.47E-08	1.73E-08	1.29E-08	4.26E-10	0.00E+00	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2890	761803.06	4069825.59	1.81E-07	1.55E-07	6.29E-09	0.00E+00	3.43E-07	2.76E-08	2.40E-08	9.54E-10	0.00E+00	5.26E-08	1.40E-08	1.05E-08	3.46E-10	0.00E+00	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2891	761837.13	4069783.18	1.63E-07	1.40E-07	5.65E-09	0.00E+00	3.08E-07	2.48E-08	2.15E-08	8.57E-10	0.00E+00	4.72E-08	1.26E-08	9.39E-09	3.10E-10	0.00E+00	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2892	761873.72	4069769.69	1.98E-07	1.70E-07	6.88E-09	0.00E+00	3.75E-07	3.02E-08	2.62E-08	1.04E-09	0.00E+00	5.75E-08	1.53E-08	1.14E-08	3.78E-10	0.00E+00	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2893	761779.02	4069903.17	3.12E-07	2.67E-07	1.08E-08	0.00E+00	5.90E-07	4.75E-08	4.12E-08	1.64E-09	0.00E+00	9.03E-08	2.41E-08	1.80E-08	5.94E-10	0.00E+00	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2894	761778.64	4069927.25	3.90E-07	3.34E-07	1.35E-08	0.00E+00	7.37E-07	5.94E-08	5.15E-08	2.05E-09	0.00E+00	1.13E-07	3.01E-08	2.25E-08	7.43E-10	0.00E+00	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2895	761778.26	4069951.33	4.81E-07	4.13E-07	1.67E-08	0.00E+00	9.10E-07	7.33E-08	6.36E-08	2.53E-09	0.00E+00	1.39E-07	3.72E-08	2.78E-08	9.17E-10	0.00E+00	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2896	761777.88	4069975.41	5.80E-07	4.98E-07	2.01E-08	0.00E+00	1.10E-06	8.84E-08	7.67E-08	3.05E-09	0.00E+00	1.68E-07	4.49E-08	3.35E-08	1.11E-09	0.00E+00	7.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2897	761777.5	4069999.49	6.81E-07	5.83E-07	2.36E-08	0.00E+00	1.29E-06	1.04E-07	9.00E-08	3.58E-09	0.00E+00	1.97E-07	5.26E-08	3.93E-08	1.30E-09	0.00E+00	9.32E-08	0.00E+00	0.00E+00	0.00E			

2987	761613.88	4069854.93	1.06E-07	9.12E-08	3.69E-09	0.00E+00	2.01E-07	1.62E-08	1.41E-08	5.59E-10	0.00E+00	3.08E-08	8.22E-09	6.13E-09	2.03E-10	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2988	761623.35	4069833.53	9.91E-08	8.50E-08	3.44E-09	0.00E+00	1.87E-07	1.51E-08	1.31E-08	5.21E-10	0.00E+00	2.87E-08	7.66E-09	5.72E-09	1.89E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2989	761632.81	4069812.12	9.25E-08	7.93E-08	3.21E-09	0.00E+00	1.75E-07	1.41E-08	1.22E-08	4.87E-10	0.00E+00	2.68E-08	7.15E-09	5.34E-09	1.76E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2990	761642.28	4069790.72	8.65E-08	7.41E-08	3.00E-09	0.00E+00	1.64E-07	1.32E-08	1.14E-08	4.55E-10	0.00E+00	2.51E-08	6.68E-09	4.99E-09	1.65E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2991	761651.74	4069769.32	8.10E-08	6.95E-08	2.81E-09	0.00E+00	1.53E-07	1.23E-08	1.07E-08	4.26E-10	0.00E+00	2.35E-08	6.26E-09	4.68E-09	1.54E-10	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2992	761661.21	4069747.92	7.65E-08	6.56E-08	2.66E-09	0.00E+00	1.45E-07	1.17E-08	1.01E-08	4.03E-10	0.00E+00	2.22E-08	5.91E-09	4.41E-09	1.46E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2993	761670.67	4069726.52	7.19E-08	6.16E-08	2.49E-09	0.00E+00	1.36E-07	1.10E-08	9.50E-09	3.78E-10	0.00E+00	2.08E-08	5.56E-09	4.15E-09	1.37E-10	0.00E+00	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2994	761680.14	4069705.12	6.85E-08	5.87E-08	2.38E-09	0.00E+00	1.30E-07	1.04E-08	9.05E-09	3.60E-10	0.00E+00	1.99E-08	5.29E-09	3.95E-09	1.31E-10	0.00E+00	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2995	761689.6	4069683.72	6.54E-08	5.61E-08	2.27E-09	0.00E+00	1.24E-07	9.96E-09	8.64E-09	3.44E-10	0.00E+00	1.89E-08	5.05E-09	3.77E-09	1.25E-10	0.00E+00	8.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2996	761721.02	4069654.23	6.33E-08	5.43E-08	2.20E-09	0.00E+00	1.20E-07	9.64E-09	8.37E-09	3.33E-10	0.00E+00	1.83E-08	4.89E-09	3.65E-09	1.21E-10	0.00E+00	8.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2997	761742.98	4069646.14	6.42E-08	5.50E-08	2.23E-09	0.00E+00	1.21E-07	9.78E-09	8.48E-09	3.38E-10	0.00E+00	1.86E-08	4.96E-09	3.70E-09	1.22E-10	0.00E+00	8.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2998	761764.94	4069638.04	6.52E-08	5.59E-08	2.26E-09	0.00E+00	1.23E-07	9.93E-09	8.61E-09	3.43E-10	0.00E+00	1.89E-08	5.04E-09	3.76E-09	1.24E-10	0.00E+00	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2999	761786.89	4069629.95	6.66E-08	5.71E-08	2.31E-09	0.00E+00	1.26E-07	1.01E-08	8.80E-09	3.50E-10	0.00E+00	1.93E-08	5.14E-09	3.84E-09	1.27E-10	0.00E+00	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3000	761808.85	4069621.86	6.86E-08	5.88E-08	2.38E-09	0.00E+00	1.30E-07	1.04E-08	9.07E-09	3.61E-10	0.00E+00	1.99E-08	5.30E-09	3.96E-09	1.31E-10	0.00E+00	9.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3001	761830.81	4069613.77	7.16E-08	6.14E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.46E-09	3.77E-10	0.00E+00	2.07E-08	5.53E-09	4.13E-09	1.36E-10	0.00E+00	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3002	761852.76	4069605.68	7.58E-08	6.50E-08	2.63E-09	0.00E+00	1.43E-07	1.15E-08	1.00E-08	3.99E-10	0.00E+00	2.20E-08	5.86E-09	4.37E-09	1.44E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3003	761874.72	4069597.58	8.16E-08	6.99E-08	2.83E-09	0.00E+00	1.54E-07	1.24E-08	1.08E-08	4.29E-10	0.00E+00	2.36E-08	6.31E-09	4.71E-09	1.56E-10	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3004	761896.68	4069589.49	8.91E-08	7.64E-08	3.09E-09	0.00E+00	1.69E-07	1.36E-08	1.18E-08	4.69E-10	0.00E+00	2.58E-08	6.88E-09	5.14E-09	1.70E-10	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3005	761604.42	4069876.33	1.14E-07	9.79E-08	3.96E-09	0.00E+00	2.16E-07	1.74E-08	1.51E-08	6.01E-10	0.00E+00	3.31E-08	8.83E-09	6.59E-09	2.18E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3006	761604.04	4069900.41	1.28E-07	1.10E-07	4.44E-09	0.00E+00	2.42E-07	1.95E-08	1.69E-08	6.73E-10	0.00E+00	3.71E-08	9.89E-09	7.38E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3007	761603.66	4069924.49	1.44E-07	1.23E-07	4.98E-09	0.00E+00	2.72E-07	2.19E-08	1.90E-08	7.55E-10	0.00E+00	4.16E-08	1.11E-08	8.28E-09	2.74E-10	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3008	761603.28	4069948.57	1.61E-07	1.38E-07	5.60E-09	0.00E+00	3.05E-07	2.46E-08	2.13E-08	8.49E-10	0.00E+00	4.68E-08	1.25E-08	9.31E-09	3.08E-10	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3009	761602.9	4069972.65	1.82E-07	1.56E-07	6.31E-09	0.00E+00	3.44E-07	2.77E-08	2.40E-08	9.56E-10	0.00E+00	5.27E-08	1.40E-08	1.05E-08	3.46E-10	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3010	761602.52	4069996.73	2.04E-07	1.75E-07	7.08E-09	0.00E+00	3.86E-07	3.11E-08	2.70E-08	1.07E-09	0.00E+00	5.91E-08	1.58E-08	1.18E-08	3.89E-10	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3011	761602.14	4070020.81	2.27E-07	1.95E-07	7.89E-09	0.00E+00	4.30E-07	3.46E-08	3.00E-08	1.20E-09	0.00E+00	6.59E-08	1.76E-08	1.31E-08	4.33E-10	0.00E+00	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3012	761601.76	4070044.89	2.51E-07	2.15E-07	8.71E-09	0.00E+00	4.75E-07	3.82E-08	3.32E-08	1.32E-09	0.00E+00	7.27E-08	1.94E-08	1.45E-08	4.78E-10	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3013	761601.38	4070068.97	2.74E-07	2.35E-07	9.52E-09	0.00E+00	5.19E-07	4.18E-08	3.62E-08	1.44E-09	0.00E+00	7.95E-08	2.12E-08	1.58E-08	5.23E-10	0.00E+00	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3014	761601	4070093.05	2.97E-07	2.55E-07	1.03E-08	0.00E+00	5.62E-07	4.52E-08	3.92E-08	1.56E-09	0.00E+00	8.60E-08	2.29E-08	1.71E-08	5.66E-10	0.00E+00	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3015	761600.62	4070117.13	3.19E-07	2.73E-07	1.11E-08	0.00E+00	6.03E-07	4.86E-08	4.21E-08	1.68E-09	0.00E+00	9.24E-08	2.46E-08	1.84E-08	6.08E-10	0.00E+00	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3016	761600.24	4070141.22	3.39E-07	2.90E-07	1.18E-08	0.00E+00	6.41E-07	5.16E-08	4.48E-08	1.78E-09	0.00E+00	9.81E-08	2.62E-08	1.95E-08	6.46E-10	0.00E+00	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3017	761599.86	4070165.3	3.56E-07	3.05E-07	1.24E-08	0.00E+00	6.73E-07	5.42E-08	4.70E-08	1.87E-09	0.00E+00	1.03E-07	2.75E-08	2.05E-08	6.78E-10	0.00E+00	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3018	761563.63	4069854.73	9.32E-08	7.99E-08	3.23E-09	0.00E+00	1.76E-07	1.42E-08	1.23E-08	4.90E-10	0.00E+00	2.70E-08	7.20E-09	5.37E-09	1.78E-10	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3019	761572.83	4069833.93	8.79E-08	7.53E-08	3.05E-09	0.00E+00	1.66E-07	1.34E-08	1.16E-08	4.62E-10	0.00E+00	2.55E-08	6.79E-09	5.07E-09	1.67E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3020	761582.03	4069813.12	8.31E-08	7.12E-08	2.88E-09	0.00E+00	1.57E-07	1.27E-08	1.10E-08	4.37E-10	0.00E+00	2.41E-08	6.42E-09	4.79E-09	1.58E-10	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3021	761591.23	4069792.31	7.84E-08	6.73E-08	2.72E-09	0.00E+00	1.48E-07	1.20E-08	1.04E-08	4.13E-10	0.00E+00	2.27E-08	6.06E-09	4.52E-09	1.50E-10	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3022	761600.43	4069771.51	7.40E-08	6.34E-08	2.57E-09	0.00E+00	1.40E-07	1.13E-08	9.78E-09	3.89E-10	0.00E+00	2.14E-08	5.72E-09	4.27E-09	1.41E-10	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3023	761609.64	4069750.7	6.97E-08	5.98E-08	2.42E-09	0.00E+00	1.32E-07	1.06E-08	9.22E-09	3.67E-10	0.00E+00	2.02E-08	5.39E-09	4.02E-09	1.33E-10	0.00E+00	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3024	761618.84	4069729.89	6.61E-08	5.67E-08	2.29E-09	0.00E+00	1.25E-07	1.01E-08	8.74E-09	3.48E-10	0.00E+00	1.92E-08	5.11E-09	3.81E-09	1.26E-10	0.00E+00	9.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3025	761628.04	4069709.09	6.29E-08	5.40E-08	2.18E-09	0.00E+00	1.19E-07	9.59E-09	8.32E-09	3.31E-10	0.00E+00	1.82E-08	4.86E-09	3.63E-09	1.20E-10	0.00E+00	8.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3026	761637.24	4069688.28	6.02E-08	5.16E-08	2.09E-09	0.00E+00	1.14E-07	9.17E-09	7.95E-09	3.16E-10	0.00E+00	1.74E-08	4.65E-09	3.47E-09	1.15E-10	0.00E+00	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3027	761646.44	4069667.48	5.78E-08	4.95E-08	2.01E-09	0.00E+00	1.09E-07	8.80E-09	7.64E-09	3.04E-10	0.00E+00	1.67E-08	4.47E-09	3.33E-09	1.10E-10	0.00E+00	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3028	761655.65	4069646.67	5.57E-08	4.77E-08	1.93E-09	0.00E+00	1.05E-07	8.48E-09	7.36E-09	2.93E-10	0.00E+00	1.61E-08	4.30E-09	3.21E-09	1.06E-10	0.00E+00	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3029	761686.2	4069618	5.42E-08	4.65E-08	1.88E-09	0.00E+00	1.03E-07	8.26E-09	7.17E-09	2.85E-10	0.00E+00	1.57E-08	4.19E-09	3.13E-09	1.03E-10	0.00E+						

3117	761903.8	4069439.66	5.52E-08	4.74E-08	1.92E-09	0.00E+00	1.04E-07	8.41E-09	7.30E-09	2.91E-10	0.00E+00	1.60E-08	4.27E-09	3.19E-09	1.05E-10	0.00E+00	7.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3118	761454.44	4069873.96	7.84E-08	6.73E-08	2.72E-09	0.00E+00	1.48E-07	1.20E-08	1.04E-08	4.13E-10	0.00E+00	2.27E-08	6.06E-09	4.52E-09	1.50E-10	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3119	761454.06	4069898.04	8.50E-08	7.29E-08	2.95E-09	0.00E+00	1.61E-07	1.30E-08	1.12E-08	4.47E-10	0.00E+00	2.46E-08	6.57E-09	4.91E-09	1.62E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3120	761453.68	4069922.12	9.23E-08	7.91E-08	3.20E-09	0.00E+00	1.75E-07	1.41E-08	1.22E-08	4.85E-10	0.00E+00	2.67E-08	7.13E-09	5.32E-09	1.76E-10	0.00E+00	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3121	761453.3	4069946.2	1.00E-07	8.58E-08	3.47E-09	0.00E+00	1.89E-07	1.52E-08	1.32E-08	5.26E-10	0.00E+00	2.90E-08	7.73E-09	5.77E-09	1.91E-10	0.00E+00	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3122	761452.92	4069970.28	1.08E-07	9.30E-08	3.76E-09	0.00E+00	2.05E-07	1.65E-08	1.43E-08	5.70E-10	0.00E+00	3.14E-08	8.38E-09	6.25E-09	2.07E-10	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3123	761452.54	4069994.36	1.18E-07	1.01E-07	4.08E-09	0.00E+00	2.22E-07	1.79E-08	1.55E-08	6.18E-10	0.00E+00	3.41E-08	9.09E-09	6.78E-09	2.24E-10	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3124	761452.16	4070018.44	1.27E-07	1.09E-07	4.42E-09	0.00E+00	2.41E-07	1.94E-08	1.68E-08	6.70E-10	0.00E+00	3.69E-08	9.85E-09	7.35E-09	2.43E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3125	761451.78	4070042.53	1.38E-07	1.18E-07	4.78E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.25E-10	0.00E+00	3.99E-08	1.06E-08	7.95E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3126	761451.4	4070066.61	1.48E-07	1.27E-07	5.15E-09	0.00E+00	2.81E-07	2.26E-08	1.96E-08	7.81E-10	0.00E+00	4.30E-08	1.15E-08	8.56E-09	2.83E-10	0.00E+00	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3127	761451.02	4070090.69	1.59E-07	1.36E-07	5.52E-09	0.00E+00	3.01E-07	2.42E-08	2.10E-08	8.37E-10	0.00E+00	4.61E-08	1.23E-08	9.18E-09	3.03E-10	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3128	761450.64	4070114.77	1.69E-07	1.45E-07	5.88E-09	0.00E+00	3.20E-07	2.58E-08	2.24E-08	8.91E-10	0.00E+00	4.91E-08	1.31E-08	9.77E-09	3.23E-10	0.00E+00	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3129	761450.26	4070138.85	1.79E-07	1.54E-07	6.22E-09	0.00E+00	3.39E-07	2.73E-08	2.37E-08	9.42E-10	0.00E+00	5.19E-08	1.38E-08	1.03E-08	3.41E-10	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3130	761449.88	4070162.93	1.88E-07	1.61E-07	6.53E-09	0.00E+00	3.56E-07	2.87E-08	2.49E-08	9.89E-10	0.00E+00	5.45E-08	1.45E-08	1.09E-08	3.59E-10	0.00E+00	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3131	761413.72	4069852.19	6.82E-08	5.85E-08	2.37E-09	0.00E+00	1.29E-07	1.04E-08	9.02E-09	3.59E-10	0.00E+00	1.98E-08	5.27E-09	3.94E-09	1.30E-10	0.00E+00	9.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3132	761423	4069831.21	6.54E-08	5.61E-08	2.27E-09	0.00E+00	1.24E-07	9.96E-09	8.64E-09	3.44E-10	0.00E+00	1.89E-08	5.05E-09	3.77E-09	1.25E-10	0.00E+00	8.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3133	761432.28	4069810.23	6.28E-08	5.38E-08	2.18E-09	0.00E+00	1.19E-07	9.57E-09	8.30E-09	3.30E-10	0.00E+00	1.82E-08	4.85E-09	3.62E-09	1.20E-10	0.00E+00	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3134	761441.56	4069789.25	6.04E-08	5.18E-08	2.10E-09	0.00E+00	1.14E-07	9.21E-09	7.99E-09	3.18E-10	0.00E+00	1.75E-08	4.67E-09	3.49E-09	1.15E-10	0.00E+00	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3135	761450.84	4069768.27	5.82E-08	4.99E-08	2.02E-09	0.00E+00	1.10E-07	8.87E-09	7.69E-09	3.06E-10	0.00E+00	1.69E-08	4.50E-09	3.36E-09	1.11E-10	0.00E+00	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3136	761460.12	4069747.29	5.59E-08	4.80E-08	1.94E-09	0.00E+00	1.06E-07	8.52E-09	7.39E-09	2.94E-10	0.00E+00	1.62E-08	4.32E-09	3.23E-09	1.07E-10	0.00E+00	7.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3137	761469.4	4069726.3	5.36E-08	4.60E-08	1.86E-09	0.00E+00	1.01E-07	8.17E-09	7.09E-09	2.82E-10	0.00E+00	1.55E-08	4.15E-09	3.09E-09	1.02E-10	0.00E+00	7.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3138	761478.68	4069705.32	5.13E-08	4.40E-08	1.78E-09	0.00E+00	9.70E-08	7.81E-09	6.78E-09	2.70E-10	0.00E+00	1.49E-08	3.96E-09	2.96E-09	9.78E-11	0.00E+00	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3139	761487.96	4069684.34	4.90E-08	4.20E-08	1.70E-09	0.00E+00	9.27E-08	7.47E-09	6.48E-09	2.58E-10	0.00E+00	1.42E-08	3.79E-09	2.83E-09	9.34E-11	0.00E+00	6.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3140	761497.24	4069663.36	4.70E-08	4.03E-08	1.63E-09	0.00E+00	8.89E-08	7.16E-09	6.21E-09	2.47E-10	0.00E+00	1.36E-08	3.63E-09	2.71E-09	8.95E-11	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3141	761506.52	4069642.38	4.50E-08	3.86E-08	1.56E-09	0.00E+00	8.52E-08	6.86E-09	5.95E-09	2.37E-10	0.00E+00	1.30E-08	3.48E-09	2.60E-09	8.58E-11	0.00E+00	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3142	761515.8	4069621.4	4.34E-08	3.72E-08	1.51E-09	0.00E+00	8.21E-08	6.61E-09	5.74E-09	2.28E-10	0.00E+00	1.26E-08	3.35E-09	2.50E-09	8.27E-11	0.00E+00	5.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3143	761525.07	4069600.42	4.21E-08	3.61E-08	1.46E-09	0.00E+00	7.96E-08	6.41E-09	5.56E-09	2.21E-10	0.00E+00	1.22E-08	3.25E-09	2.43E-09	8.02E-11	0.00E+00	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3144	761534.35	4069579.44	4.10E-08	3.52E-08	1.42E-09	0.00E+00	7.76E-08	6.25E-09	5.42E-09	2.16E-10	0.00E+00	1.19E-08	3.17E-09	2.37E-09	7.82E-11	0.00E+00	5.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3145	761543.63	4069558.46	4.01E-08	3.44E-08	1.39E-09	0.00E+00	7.59E-08	6.15E-09	5.30E-09	2.11E-10	0.00E+00	1.16E-08	3.10E-09	2.31E-09	7.64E-11	0.00E+00	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3146	761552.91	4069537.48	3.91E-08	3.35E-08	1.36E-09	0.00E+00	7.40E-08	5.96E-09	5.17E-09	2.06E-10	0.00E+00	1.13E-08	3.02E-09	2.26E-09	7.46E-11	0.00E+00	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3147	761583.72	4069508.56	3.87E-08	3.32E-08	1.34E-09	0.00E+00	7.33E-08	5.90E-09	5.12E-09	2.04E-10	0.00E+00	1.12E-08	2.99E-09	2.23E-09	7.38E-11	0.00E+00	5.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3148	761605.24	4069500.63	3.91E-08	3.35E-08	1.36E-09	0.00E+00	7.40E-08	5.96E-09	5.17E-09	2.06E-10	0.00E+00	1.13E-08	3.02E-09	2.26E-09	7.45E-11	0.00E+00	5.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3149	761626.77	4069492.69	3.94E-08	3.38E-08	1.37E-09	0.00E+00	7.46E-08	6.00E-09	5.21E-09	2.07E-10	0.00E+00	1.14E-08	3.05E-09	2.27E-09	7.51E-11	0.00E+00	5.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3150	761648.3	4069484.76	3.92E-08	3.36E-08	1.36E-09	0.00E+00	7.41E-08	5.97E-09	5.18E-09	2.06E-10	0.00E+00	1.13E-08	3.03E-09	2.26E-09	7.46E-11	0.00E+00	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3151	761669.82	4069476.83	3.89E-08	3.33E-08	1.35E-09	0.00E+00	7.35E-08	5.92E-09	5.14E-09	2.04E-10	0.00E+00	1.13E-08	3.00E-09	2.24E-09	7.41E-11	0.00E+00	5.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3152	761691.35	4069468.89	3.86E-08	3.31E-08	1.34E-09	0.00E+00	7.31E-08	5.89E-09	5.11E-09	2.03E-10	0.00E+00	1.12E-08	2.99E-09	2.23E-09	7.37E-11	0.00E+00	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3153	761712.87	4069460.96	3.89E-08	3.33E-08	1.35E-09	0.00E+00	7.36E-08	5.92E-09	5.14E-09	2.05E-10	0.00E+00	1.13E-08	3.00E-09	2.24E-09	7.41E-11	0.00E+00	5.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3154	761734.4	4069453.03	3.87E-08	3.32E-08	1.34E-09	0.00E+00	7.33E-08	5.90E-09	5.12E-09	2.04E-10	0.00E+00	1.12E-08	2.99E-09	2.23E-09	7.38E-11	0.00E+00	5.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3155	761755.93	4069445.09	3.88E-08	3.33E-08	1.35E-09	0.00E+00	7.34E-08	5.91E-09	5.13E-09	2.04E-10	0.00E+00	1.12E-08	3.00E-09	2.24E-09	7.40E-11	0.00E+00	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3156	761777.45	4069437.16	3.93E-08	3.37E-08	1.36E-09	0.00E+00	7.43E-08	5.99E-09	5.19E-09	2.07E-10	0.00E+00	1.14E-08	3.04E-09	2.27E-09	7.49E-11	0.00E+00	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3157	761798.98	4069429.23	4.01E-08	3.44E-08	1.39E-09	0.00E+00	7.59E-08	6.11E-09	5.30E-09	2.11E-10	0.00E+00	1.16E-08	3.10E-09	2.31E-09	7.64E-11	0.00E+00	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3158	761820.5	4069421.29	4.12E-08	3.53E-08	1.43E-09	0.00E+00	7.80E-08	6.28E-09	5.45E-09	2.17E-10	0.00E+00	1.19E-08	3.18E-09	2.38E-09	7.85E-11	0.00E+00	5.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3159	761842.03	4069413.36	4.25E-08	3.64E-08	1.47E-09	0.00E+00	8.04E-08	6.47E-09	5.62E-09	2.24E-10	0.00E+00	1.23E-08	3.28E-09	2.45E-09	8.10E-11	0.00E+00</						

3247	761625.49	4069395.03	3.29E-08	2.82E-08	1.14E-09	0.00E+00	6.23E-08	5.02E-09	4.35E-09	1.73E-10	0.00E+00	9.55E-09	2.55E-09	1.90E-09	6.28E-11	0.00E+00	4.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3248	761647.45	4069386.94	3.26E-08	2.79E-08	1.13E-09	0.00E+00	6.17E-08	4.97E-09	4.31E-09	1.71E-10	0.00E+00	9.45E-09	2.52E-09	1.88E-09	6.21E-11	0.00E+00	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3249	761669.41	4069378.84	3.22E-08	2.76E-08	1.12E-09	0.00E+00	6.10E-08	4.91E-09	4.26E-09	1.70E-10	0.00E+00	9.34E-09	2.49E-09	1.86E-09	6.15E-11	0.00E+00	4.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3250	761691.36	4069370.75	3.20E-08	2.74E-08	1.11E-09	0.00E+00	6.05E-08	4.87E-09	4.22E-09	1.68E-10	0.00E+00	9.26E-09	2.47E-09	1.84E-09	6.09E-11	0.00E+00	4.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3251	761713.32	4069362.66	3.19E-08	2.73E-08	1.11E-09	0.00E+00	6.03E-08	4.86E-09	4.21E-09	1.68E-10	0.00E+00	9.24E-09	2.46E-09	1.84E-09	6.08E-11	0.00E+00	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3252	761735.28	4069354.57	3.20E-08	2.74E-08	1.11E-09	0.00E+00	6.05E-08	4.87E-09	4.22E-09	1.68E-10	0.00E+00	9.26E-09	2.47E-09	1.84E-09	6.09E-11	0.00E+00	4.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3253	761757.23	4069346.48	3.22E-08	2.76E-08	1.12E-09	0.00E+00	6.09E-08	4.91E-09	4.26E-09	1.69E-10	0.00E+00	9.33E-09	2.49E-09	1.86E-09	6.14E-11	0.00E+00	4.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3254	761779.19	4069338.38	3.25E-08	2.79E-08	1.13E-09	0.00E+00	6.15E-08	4.95E-09	4.30E-09	1.71E-10	0.00E+00	9.42E-09	2.51E-09	1.88E-09	6.20E-11	0.00E+00	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3255	761801.15	4069330.29	3.30E-08	2.83E-08	1.14E-09	0.00E+00	6.24E-08	5.02E-09	4.36E-09	1.73E-10	0.00E+00	9.56E-09	2.55E-09	1.90E-09	6.28E-11	0.00E+00	4.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3256	761823.1	4069322.2	3.37E-08	2.89E-08	1.17E-09	0.00E+00	6.37E-08	5.13E-09	4.45E-09	1.77E-10	0.00E+00	9.76E-09	2.60E-09	1.94E-09	6.42E-11	0.00E+00	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3257	761845.06	4069314.11	3.45E-08	2.96E-08	1.20E-09	0.00E+00	6.53E-08	5.26E-09	4.56E-09	1.81E-10	0.00E+00	1.00E-08	2.67E-09	1.99E-09	6.58E-11	0.00E+00	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3258	761867.01	4069306.01	3.55E-08	3.04E-08	1.23E-09	0.00E+00	6.72E-08	5.41E-09	4.69E-09	1.87E-10	0.00E+00	1.03E-08	2.74E-09	2.05E-09	6.77E-11	0.00E+00	4.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3259	761888.97	4069297.92	3.69E-08	3.16E-08	1.28E-09	0.00E+00	6.98E-08	5.62E-09	4.87E-09	1.94E-10	0.00E+00	1.07E-08	2.85E-09	2.13E-09	7.03E-11	0.00E+00	5.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3260	761910.93	4069289.83	3.87E-08	3.31E-08	1.34E-09	0.00E+00	7.32E-08	5.89E-09	5.11E-09	2.03E-10	0.00E+00	1.12E-08	2.99E-09	2.23E-09	7.37E-11	0.00E+00	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3261	761934.45	4069871.59	6.05E-08	5.19E-08	2.10E-09	0.00E+00	1.14E-07	9.22E-09	8.00E-09	3.18E-10	0.00E+00	1.75E-08	4.68E-09	3.49E-09	1.15E-10	0.00E+00	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3262	761904.07	4068995.67	6.45E-08	5.53E-08	2.24E-09	0.00E+00	1.22E-07	9.82E-09	8.52E-09	3.39E-10	0.00E+00	1.87E-08	4.98E-09	3.72E-09	1.23E-10	0.00E+00	8.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3263	761903.69	4069919.75	6.83E-08	5.86E-08	2.37E-09	0.00E+00	1.29E-07	1.04E-08	9.04E-09	3.60E-10	0.00E+00	1.98E-08	5.28E-09	3.94E-09	1.30E-10	0.00E+00	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3264	761903.31	4069943.84	7.27E-08	6.24E-08	2.52E-09	0.00E+00	1.38E-07	1.11E-08	9.62E-09	3.83E-10	0.00E+00	2.11E-08	5.62E-09	4.20E-09	1.39E-10	0.00E+00	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3265	761902.93	4069967.92	7.71E-08	6.61E-08	2.68E-09	0.00E+00	1.46E-07	1.18E-08	1.02E-08	4.06E-10	0.00E+00	2.24E-08	5.96E-09	4.45E-09	1.47E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3266	761902.55	4069992	8.18E-08	7.02E-08	2.84E-09	0.00E+00	1.55E-07	1.25E-08	1.08E-08	4.30E-10	0.00E+00	2.37E-08	6.32E-09	4.72E-09	1.56E-10	0.00E+00	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3267	761902.17	4070016.08	8.69E-08	7.45E-08	3.02E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.57E-10	0.00E+00	2.52E-08	6.72E-09	5.01E-09	1.66E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3268	761901.79	4070040.16	9.24E-08	7.93E-08	3.21E-09	0.00E+00	1.75E-07	1.41E-08	1.22E-08	4.86E-10	0.00E+00	2.68E-08	7.14E-09	5.33E-09	1.76E-10	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3269	761901.41	4070064.24	9.80E-08	8.40E-08	3.40E-09	0.00E+00	1.85E-07	1.49E-08	1.30E-08	5.16E-10	0.00E+00	2.84E-08	7.58E-09	5.65E-09	1.87E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3270	761901.03	4070088.32	1.04E-07	8.90E-08	3.60E-09	0.00E+00	1.96E-07	1.58E-08	1.37E-08	5.46E-10	0.00E+00	3.01E-08	8.02E-09	5.99E-09	1.98E-10	0.00E+00	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3271	761900.65	4070112.4	1.10E-07	9.41E-08	3.81E-09	0.00E+00	2.08E-07	1.67E-08	1.45E-08	5.77E-10	0.00E+00	3.18E-08	8.48E-09	6.33E-09	2.09E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3272	761900.27	4070136.48	1.16E-07	9.91E-08	4.01E-09	0.00E+00	2.19E-07	1.76E-08	1.53E-08	6.08E-10	0.00E+00	3.35E-08	8.94E-09	6.67E-09	2.20E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3273	761999.89	4070160.56	1.21E-07	1.04E-07	4.20E-09	0.00E+00	2.29E-07	1.85E-08	1.60E-08	6.37E-10	0.00E+00	3.51E-08	9.36E-09	6.99E-09	2.31E-10	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3274	761214.07	4069848.3	5.12E-08	4.39E-08	1.78E-09	0.00E+00	9.69E-08	7.80E-09	6.77E-09	2.69E-10	0.00E+00	1.48E-08	3.96E-09	2.95E-09	9.76E-11	0.00E+00	7.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3275	761223.67	4069826.59	4.95E-08	4.25E-08	1.72E-09	0.00E+00	9.39E-08	7.56E-09	6.56E-09	2.61E-10	0.00E+00	1.44E-08	3.83E-09	2.86E-09	9.46E-11	0.00E+00	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3276	761233.27	4069804.88	4.80E-08	4.12E-08	1.67E-09	0.00E+00	9.09E-08	7.32E-09	6.35E-09	2.53E-10	0.00E+00	1.39E-08	3.71E-09	2.77E-09	9.16E-11	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3277	761242.88	4069783.17	4.67E-08	4.00E-08	1.62E-09	0.00E+00	8.84E-08	7.11E-09	6.17E-09	2.46E-10	0.00E+00	1.35E-08	3.61E-09	2.69E-09	8.90E-11	0.00E+00	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3278	761252.48	4069761.46	4.55E-08	3.90E-08	1.58E-09	0.00E+00	8.61E-08	6.93E-09	6.01E-09	2.39E-10	0.00E+00	1.32E-08	3.52E-09	2.62E-09	8.67E-11	0.00E+00	6.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3279	761262.08	4069739.75	4.43E-08	3.80E-08	1.54E-09	0.00E+00	8.38E-08	6.75E-09	5.85E-09	2.33E-10	0.00E+00	1.28E-08	3.42E-09	2.55E-09	8.44E-11	0.00E+00	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3280	761271.68	4069718.04	4.31E-08	3.70E-08	1.50E-09	0.00E+00	8.16E-08	6.57E-09	5.70E-09	2.27E-10	0.00E+00	1.25E-08	3.33E-09	2.49E-09	8.22E-11	0.00E+00	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3281	761281.28	4069696.33	4.18E-08	3.59E-08	1.45E-09	0.00E+00	7.91E-08	6.37E-09	5.53E-09	2.20E-10	0.00E+00	1.21E-08	3.23E-09	2.41E-09	7.97E-11	0.00E+00	5.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3282	761290.89	4069674.62	4.05E-08	3.47E-08	1.41E-09	0.00E+00	7.66E-08	6.17E-09	5.36E-09	2.13E-10	0.00E+00	1.17E-08	3.13E-09	2.34E-09	7.72E-11	0.00E+00	5.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3283	761300.49	4069652.91	3.88E-08	3.33E-08	1.35E-09	0.00E+00	7.35E-08	5.92E-09	5.13E-09	2.04E-10	0.00E+00	1.13E-08	3.00E-09	2.24E-09	7.40E-11	0.00E+00	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3284	761310.09	4069631.2	3.76E-08	3.22E-08	1.30E-09	0.00E+00	7.11E-08	5.72E-09	4.97E-09	1.98E-10	0.00E+00	1.09E-08	2.90E-09	2.17E-09	7.16E-11	0.00E+00	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3285	761319.69	4069609.49	3.66E-08	3.14E-08	1.27E-09	0.00E+00	6.93E-08	5.58E-09	4.84E-09	1.93E-10	0.00E+00	1.06E-08	2.83E-09	2.11E-09	6.98E-11	0.00E+00	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3286	761329.3	4069587.78	3.53E-08	3.02E-08	1.22E-09	0.00E+00	6.67E-08	5.37E-09	4.66E-09	1.85E-10	0.00E+00	1.02E-08	2.72E-09	2.03E-09	6.42E-11	0.00E+00	4.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3287	761338.9	4069566.07	3.41E-08	2.92E-08	1.18E-09	0.00E+00	6.45E-08	5.19E-09	4.50E-09	1.79E-10	0.00E+00	9.87E-09	2.63E-09	1.97E-09	6.29E-11	0.00E+00	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3288	761348.5	4069544.35	3.32E-08	2.85E-08	1.15E-09	0.00E+00	6.28E-08	5.06E-09	4.39E-09	1.75E-10	0.00E+00	9.62E-09	2.57E-09	1.92E-09	6.33E-11	0.00E+00	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3289	761358.1	4069522.64	3.25E-08	2.78E-08	1.13E-09	0.00E+00	6.14E-08	4.94E-09	4.29E-09	1.71E-10	0.00E+00	9.41E-09	2.51E-09	1.87E-09	6.19E-11	0.00E+00	4.44E-09	0.00E+00	0.00E+		

3377	761852.31	4069115.16	2.42E-08	2.08E-08	8.41E-10	0.00E+00	4.59E-08	3.69E-09	3.21E-09	1.28E-10	0.00E+00	7.03E-09	1.87E-09	1.40E-09	4.62E-11	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3378	761874.83	4069106.86	2.51E-08	2.16E-08	8.73E-10	0.00E+00	4.76E-08	3.83E-09	3.32E-09	1.32E-10	0.00E+00	7.29E-09	1.94E-09	1.45E-09	4.79E-11	0.00E+00	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3379	761897.35	4069098.56	2.63E-08	2.25E-08	9.12E-10	0.00E+00	4.97E-08	4.00E-09	3.47E-09	1.38E-10	0.00E+00	7.62E-09	2.03E-09	1.52E-09	5.01E-11	0.00E+00	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3380	761919.87	4069090.26	2.77E-08	2.37E-08	9.61E-10	0.00E+00	5.24E-08	4.22E-09	3.66E-09	1.46E-10	0.00E+00	8.02E-09	2.14E-09	1.60E-09	5.28E-11	0.00E+00	3.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3381	761104.48	4069868.44	4.67E-08	4.00E-08	1.62E-09	0.00E+00	8.84E-08	7.11E-09	6.17E-09	2.46E-10	0.00E+00	1.35E-08	3.61E-09	2.69E-09	8.90E-11	0.00E+00	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3382	761104.1	4069892.52	4.89E-08	4.20E-08	1.70E-09	0.00E+00	9.26E-08	7.46E-09	6.47E-09	2.57E-10	0.00E+00	1.42E-08	3.78E-09	2.82E-09	9.33E-11	0.00E+00	6.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3383	761103.72	4069916.6	5.17E-08	4.43E-08	1.79E-09	0.00E+00	9.77E-08	7.87E-09	6.83E-09	2.72E-10	0.00E+00	1.50E-08	3.99E-09	2.98E-09	9.85E-11	0.00E+00	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3384	761103.34	4069940.68	5.43E-08	4.66E-08	1.89E-09	0.00E+00	1.03E-07	8.28E-09	7.18E-09	2.86E-10	0.00E+00	1.57E-08	4.20E-09	3.13E-09	1.04E-10	0.00E+00	7.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3385	761102.96	4069964.76	5.68E-08	4.87E-08	1.97E-09	0.00E+00	1.07E-07	8.65E-09	7.51E-09	2.99E-10	0.00E+00	1.65E-08	4.39E-09	3.28E-09	1.08E-10	0.00E+00	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3386	761102.58	4069988.84	5.93E-08	5.08E-08	2.06E-09	0.00E+00	1.12E-07	9.03E-09	7.84E-09	3.12E-10	0.00E+00	1.72E-08	4.58E-09	3.42E-09	1.13E-10	0.00E+00	8.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3387	761102.2	4070012.92	6.21E-08	5.32E-08	2.16E-09	0.00E+00	1.17E-07	9.46E-09	8.21E-09	3.27E-10	0.00E+00	1.80E-08	4.80E-09	3.58E-09	1.18E-10	0.00E+00	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3388	761101.82	4070037	6.41E-08	5.50E-08	2.22E-09	0.00E+00	1.21E-07	9.77E-09	8.47E-09	3.37E-10	0.00E+00	1.86E-08	4.95E-09	3.70E-09	1.22E-10	0.00E+00	8.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3389	761101.44	4070061.08	6.66E-08	5.71E-08	2.31E-09	0.00E+00	1.26E-07	1.01E-08	8.80E-09	3.50E-10	0.00E+00	1.93E-08	5.15E-09	3.84E-09	1.27E-10	0.00E+00	9.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3390	761101.06	4070085.16	6.93E-08	5.94E-08	2.41E-09	0.00E+00	1.31E-07	1.06E-08	9.16E-09	3.65E-10	0.00E+00	2.01E-08	5.36E-09	4.00E-09	1.32E-10	0.00E+00	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3391	761100.68	4070109.25	7.22E-08	6.19E-08	2.51E-09	0.00E+00	1.37E-07	1.10E-08	9.54E-09	3.80E-10	0.00E+00	2.09E-08	5.58E-09	4.16E-09	1.38E-10	0.00E+00	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3392	761100.3	4070133.33	7.52E-08	6.45E-08	2.61E-09	0.00E+00	1.42E-07	1.15E-08	9.94E-09	3.96E-10	0.00E+00	2.18E-08	5.81E-09	4.34E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3393	761099.92	4070157.41	7.83E-08	6.71E-08	2.72E-09	0.00E+00	1.48E-07	1.19E-08	1.04E-08	4.12E-10	0.00E+00	2.27E-08	6.05E-09	4.52E-09	1.49E-10	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3394	761013.96	4069845.46	4.12E-08	3.53E-08	1.43E-09	0.00E+00	7.79E-08	6.27E-09	5.44E-09	2.17E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.85E-11	0.00E+00	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3395	761023.42	4069824.06	3.97E-08	3.40E-08	1.38E-09	0.00E+00	7.51E-08	6.04E-09	5.24E-09	2.09E-10	0.00E+00	1.15E-08	3.07E-09	2.29E-09	7.56E-11	0.00E+00	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3396	761032.89	4069802.66	3.86E-08	3.31E-08	1.34E-09	0.00E+00	7.31E-08	5.89E-09	5.11E-09	2.03E-10	0.00E+00	1.12E-08	2.99E-09	2.23E-09	7.36E-11	0.00E+00	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3397	761042.35	4069781.26	3.77E-08	3.23E-08	1.31E-09	0.00E+00	7.14E-08	5.75E-09	4.99E-09	1.98E-10	0.00E+00	1.09E-08	2.92E-09	2.18E-09	7.19E-11	0.00E+00	5.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3398	761051.82	4069759.86	3.71E-08	3.18E-08	1.29E-09	0.00E+00	7.01E-08	5.65E-09	4.90E-09	1.95E-10	0.00E+00	1.07E-08	2.86E-09	2.14E-09	7.07E-11	0.00E+00	5.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3399	761061.28	4069738.46	3.65E-08	3.13E-08	1.27E-09	0.00E+00	6.91E-08	5.57E-09	4.83E-09	1.92E-10	0.00E+00	1.06E-08	2.82E-09	2.11E-09	6.96E-11	0.00E+00	5.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3400	761070.75	4069717.06	3.61E-08	3.09E-08	1.25E-09	0.00E+00	6.83E-08	5.50E-09	4.77E-09	1.90E-10	0.00E+00	1.05E-08	2.79E-09	2.08E-09	6.88E-11	0.00E+00	4.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3401	761080.21	4069695.66	3.55E-08	3.05E-08	1.23E-09	0.00E+00	6.72E-08	5.42E-09	4.70E-09	1.87E-10	0.00E+00	1.03E-08	2.75E-09	2.05E-09	6.77E-11	0.00E+00	4.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3402	761089.68	4069674.25	3.48E-08	2.98E-08	1.21E-09	0.00E+00	6.58E-08	5.30E-09	4.60E-09	1.83E-10	0.00E+00	1.01E-08	2.69E-09	2.01E-09	6.63E-11	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3403	761099.14	4069652.85	3.37E-08	2.89E-08	1.17E-09	0.00E+00	6.38E-08	5.14E-09	4.46E-09	1.77E-10	0.00E+00	9.78E-09	2.61E-09	1.95E-09	6.43E-11	0.00E+00	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3404	761108.61	4069631.45	3.28E-08	2.81E-08	1.14E-09	0.00E+00	6.20E-08	4.99E-09	4.33E-09	1.72E-10	0.00E+00	9.49E-09	2.53E-09	1.89E-09	6.24E-11	0.00E+00	4.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3405	761118.07	4069610.05	3.18E-08	2.73E-08	1.10E-09	0.00E+00	6.02E-08	4.85E-09	4.21E-09	1.67E-10	0.00E+00	9.22E-09	2.46E-09	1.84E-09	6.07E-11	0.00E+00	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3406	761127.54	4069588.65	3.10E-08	2.66E-08	1.08E-09	0.00E+00	5.87E-08	4.73E-09	4.10E-09	1.63E-10	0.00E+00	8.99E-09	2.40E-09	1.79E-09	5.91E-11	0.00E+00	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3407	761137	4069567.25	3.03E-08	2.60E-08	1.05E-09	0.00E+00	5.73E-08	4.61E-09	4.00E-09	1.59E-10	0.00E+00	8.77E-09	2.34E-09	1.75E-09	5.77E-11	0.00E+00	4.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3408	761146.47	4069545.85	2.96E-08	2.54E-08	1.03E-09	0.00E+00	5.61E-08	4.52E-09	3.92E-09	1.56E-10	0.00E+00	8.59E-09	2.29E-09	1.71E-09	5.65E-11	0.00E+00	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3409	761155.93	4069524.45	2.91E-08	2.49E-08	1.01E-09	0.00E+00	5.50E-08	4.43E-09	3.84E-09	1.53E-10	0.00E+00	8.42E-09	2.25E-09	1.68E-09	5.54E-11	0.00E+00	3.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3410	761165.4	4069503.05	2.85E-08	2.44E-08	9.88E-10	0.00E+00	5.39E-08	4.34E-09	3.76E-09	1.50E-10	0.00E+00	8.25E-09	2.20E-09	1.64E-09	5.43E-11	0.00E+00	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3411	761174.86	4069481.65	2.79E-08	2.39E-08	9.67E-10	0.00E+00	5.27E-08	4.25E-09	3.68E-09	1.47E-10	0.00E+00	8.08E-09	2.15E-09	1.61E-09	5.31E-11	0.00E+00	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3412	761184.33	4069460.25	2.72E-08	2.34E-08	9.45E-10	0.00E+00	5.15E-08	4.15E-09	3.60E-09	1.43E-10	0.00E+00	7.90E-09	2.11E-09	1.57E-09	5.19E-11	0.00E+00	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3413	761193.79	4069438.85	2.65E-08	2.28E-08	9.21E-10	0.00E+00	5.02E-08	4.05E-09	3.51E-09	1.40E-10	0.00E+00	7.69E-09	2.05E-09	1.53E-09	5.06E-11	0.00E+00	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3414	761203.26	4069417.45	2.60E-08	2.23E-08	9.01E-10	0.00E+00	4.91E-08	3.96E-09	3.43E-09	1.37E-10	0.00E+00	7.53E-09	2.01E-09	1.50E-09	4.95E-11	0.00E+00	3.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3415	761212.72	4069396.05	2.55E-08	2.19E-08	8.85E-10	0.00E+00	4.83E-08	3.89E-09	3.37E-09	1.34E-10	0.00E+00	7.39E-09	1.97E-09	1.47E-09	4.86E-11	0.00E+00	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3416	761222.19	4069374.65	2.52E-08	2.16E-08	8.73E-10	0.00E+00	4.76E-08	3.83E-09	3.33E-09	1.32E-10	0.00E+00	7.29E-09	1.95E-09	1.45E-09	4.80E-11	0.00E+00	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3417	761231.65	4069353.25	2.49E-08	2.14E-08	8.65E-10	0.00E+00	4.71E-08	3.80E-09	3.29E-09	1.31E-10	0.00E+00	7.22E-09	1.93E-09	1.44E-09	4.75E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3418	761241.12	4069331.85	2.44E-08	2.09E-08	8.48E-10	0.00E+00	4.62E-08	3.72E-09	3.23E-09	1.28E-10	0.00E+00	7.08E-09	1.89E-09	1.41E-09	4.66E-11	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3419	761250.58	4069310.45	2.38E-08	2.04E-08	8.25E-10	0.00E+00	4.50E-08	3.62E-09	3.14E-09	1.25E-10	0.00E+00	6.89E-09	1.84E-09	1.37E-09	4.53E-11	0.00E+						

3507	761463.97	4069062.02	2.09E-08	1.79E-08	7.25E-10	0.00E+00	3.95E-08	3.18E-09	2.76E-09	1.10E-10	0.00E+00	6.05E-09	1.61E-09	1.21E-09	3.98E-11	0.00E+00	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3508	761486.14	4069053.84	2.05E-08	1.76E-08	7.11E-10	0.00E+00	3.88E-08	3.12E-09	2.71E-09	1.08E-10	0.00E+00	5.94E-09	1.58E-09	1.18E-09	3.90E-11	0.00E+00	2.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3509	761508.32	4069045.67	2.01E-08	1.73E-08	6.99E-10	0.00E+00	3.81E-08	3.07E-09	2.66E-09	1.06E-10	0.00E+00	5.84E-09	1.56E-09	1.16E-09	3.84E-11	0.00E+00	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3510	761530.5	4069037.49	1.98E-08	1.69E-08	6.86E-10	0.00E+00	3.74E-08	3.01E-09	2.61E-09	1.04E-10	0.00E+00	5.73E-09	1.53E-09	1.14E-09	3.77E-11	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3511	761552.68	4069029.32	1.93E-08	1.66E-08	6.72E-10	0.00E+00	3.66E-08	2.95E-09	2.56E-09	1.02E-10	0.00E+00	5.61E-09	1.50E-09	1.12E-09	3.69E-11	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3512	761574.86	4069021.15	1.90E-08	1.63E-08	6.59E-10	0.00E+00	3.59E-08	2.89E-09	2.51E-09	9.99E-11	0.00E+00	5.51E-09	1.47E-09	1.10E-09	3.62E-11	0.00E+00	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3513	761597.03	4069012.97	1.87E-08	1.60E-08	6.49E-10	0.00E+00	3.54E-08	2.85E-09	2.47E-09	9.84E-11	0.00E+00	5.42E-09	1.45E-09	1.08E-09	3.57E-11	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3514	761619.21	4069004.8	1.84E-08	1.58E-08	6.39E-10	0.00E+00	3.48E-08	2.80E-09	2.43E-09	9.68E-11	0.00E+00	5.34E-09	1.42E-09	1.06E-09	3.51E-11	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3515	761641.39	4068996.62	1.80E-08	1.55E-08	6.26E-10	0.00E+00	3.41E-08	2.75E-09	2.38E-09	9.49E-11	0.00E+00	5.23E-09	1.39E-09	1.04E-09	3.44E-11	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3516	761663.57	4068988.45	1.77E-08	1.52E-08	6.14E-10	0.00E+00	3.35E-08	2.69E-09	2.34E-09	9.30E-11	0.00E+00	5.12E-09	1.37E-09	1.02E-09	3.37E-11	0.00E+00	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3517	761685.75	4068980.28	1.74E-08	1.49E-08	6.05E-10	0.00E+00	3.30E-08	2.66E-09	2.30E-09	9.17E-11	0.00E+00	5.05E-09	1.35E-09	1.01E-09	3.32E-11	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3518	761707.93	4068972.1	1.73E-08	1.49E-08	6.01E-10	0.00E+00	3.28E-08	2.64E-09	2.29E-09	9.11E-11	0.00E+00	5.02E-09	1.34E-09	9.99E-10	3.30E-11	0.00E+00	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3519	761730.1	4068963.93	1.72E-08	1.48E-08	5.98E-10	0.00E+00	3.26E-08	2.62E-09	2.28E-09	9.06E-11	0.00E+00	4.99E-09	1.33E-09	9.93E-10	3.28E-11	0.00E+00	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3520	761752.28	4068955.75	1.71E-08	1.47E-08	5.94E-10	0.00E+00	3.24E-08	2.61E-09	2.26E-09	9.00E-11	0.00E+00	4.96E-09	1.32E-09	9.87E-10	3.26E-11	0.00E+00	2.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3521	761774.46	4068947.58	1.73E-08	1.48E-08	6.00E-10	0.00E+00	3.27E-08	2.63E-09	2.28E-09	9.09E-11	0.00E+00	5.01E-09	1.34E-09	9.96E-10	3.29E-11	0.00E+00	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3522	761796.64	4068939.41	1.76E-08	1.51E-08	6.11E-10	0.00E+00	3.33E-08	2.68E-09	2.33E-09	9.26E-11	0.00E+00	5.10E-09	1.36E-09	1.02E-09	3.36E-11	0.00E+00	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3523	761818.82	4068931.23	1.82E-08	1.56E-08	6.31E-10	0.00E+00	3.44E-08	2.77E-09	2.40E-09	9.56E-11	0.00E+00	5.27E-09	1.41E-09	1.05E-09	3.47E-11	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3524	761841	4068923.06	1.87E-08	1.61E-08	6.50E-10	0.00E+00	3.54E-08	2.85E-09	2.48E-09	9.85E-11	0.00E+00	5.43E-09	1.45E-09	1.08E-09	3.57E-11	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3525	761863.17	4068914.88	1.94E-08	1.66E-08	6.73E-10	0.00E+00	3.67E-08	2.95E-09	2.56E-09	1.02E-10	0.00E+00	5.62E-09	1.50E-09	1.12E-09	3.70E-11	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3526	761885.35	4068906.71	2.01E-08	1.73E-08	6.99E-10	0.00E+00	3.81E-08	3.07E-09	2.66E-09	1.06E-10	0.00E+00	5.84E-09	1.56E-09	1.16E-09	3.84E-11	0.00E+00	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3527	761907.53	4068898.54	2.11E-08	1.81E-08	7.31E-10	0.00E+00	3.98E-08	3.21E-09	2.78E-09	1.11E-10	0.00E+00	6.10E-09	1.63E-09	1.21E-09	4.01E-11	0.00E+00	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3528	761929.71	4068890.36	2.21E-08	1.90E-08	7.68E-10	0.00E+00	4.18E-08	3.37E-09	2.92E-09	1.16E-10	0.00E+00	6.41E-09	1.71E-09	1.28E-09	4.22E-11	0.00E+00	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3529	760904.5	4068865.28	3.86E-08	3.31E-08	1.34E-09	0.00E+00	7.30E-08	5.88E-09	5.10E-09	2.03E-10	0.00E+00	1.12E-08	2.98E-09	2.23E-09	7.36E-11	0.00E+00	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3530	760904.12	4068889.36	4.03E-08	3.46E-08	1.40E-09	0.00E+00	7.63E-08	6.14E-09	5.33E-09	2.12E-10	0.00E+00	1.17E-08	3.12E-09	2.33E-09	7.69E-11	0.00E+00	5.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3531	760903.74	4069913.44	4.19E-08	3.59E-08	1.46E-09	0.00E+00	7.93E-08	6.39E-09	5.54E-09	2.21E-10	0.00E+00	1.22E-08	3.24E-09	2.42E-09	7.99E-11	0.00E+00	5.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3532	760903.36	4069937.52	4.33E-08	3.72E-08	1.50E-09	0.00E+00	8.20E-08	6.60E-09	5.73E-09	2.28E-10	0.00E+00	1.26E-08	3.35E-09	2.50E-09	8.26E-11	0.00E+00	5.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3533	760902.98	4069961.61	4.48E-08	3.84E-08	1.55E-09	0.00E+00	8.47E-08	6.82E-09	5.92E-09	2.36E-10	0.00E+00	1.30E-08	3.46E-09	2.58E-09	8.54E-11	0.00E+00	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3534	760902.6	4069985.69	4.64E-08	3.98E-08	1.61E-09	0.00E+00	8.78E-08	7.07E-09	6.13E-09	2.44E-10	0.00E+00	1.34E-08	3.59E-09	2.68E-09	8.84E-11	0.00E+00	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3535	760902.22	4070009.77	4.83E-08	4.14E-08	1.67E-09	0.00E+00	9.13E-08	7.35E-09	6.38E-09	2.54E-10	0.00E+00	1.40E-08	3.73E-09	2.78E-09	9.20E-11	0.00E+00	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3536	760901.84	4070033.85	5.02E-08	4.30E-08	1.74E-09	0.00E+00	9.50E-08	7.65E-09	6.64E-09	2.64E-10	0.00E+00	1.45E-08	3.88E-09	2.90E-09	9.57E-11	0.00E+00	6.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3537	760901.46	4070057.93	5.15E-08	4.41E-08	1.79E-09	0.00E+00	9.74E-08	7.84E-09	6.80E-09	2.71E-10	0.00E+00	1.49E-08	3.98E-09	2.97E-09	9.81E-11	0.00E+00	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3538	760901.08	4070082.01	5.27E-08	4.52E-08	1.83E-09	0.00E+00	9.97E-08	8.03E-09	6.97E-09	2.77E-10	0.00E+00	1.53E-08	4.07E-09	3.04E-09	1.00E-10	0.00E+00	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3539	760900.77	4070106.09	5.41E-08	4.64E-08	1.88E-09	0.00E+00	1.02E-07	8.24E-09	7.15E-09	2.84E-10	0.00E+00	1.57E-08	4.18E-09	3.12E-09	1.03E-10	0.00E+00	7.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3540	760900.32	4070130.17	5.57E-08	4.77E-08	1.93E-09	0.00E+00	1.05E-07	8.48E-09	7.36E-09	2.93E-10	0.00E+00	1.61E-08	4.30E-09	3.21E-09	1.06E-10	0.00E+00	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3541	760899.94	4070154.25	5.75E-08	4.93E-08	2.00E-09	0.00E+00	1.09E-07	8.76E-09	7.60E-09	3.02E-10	0.00E+00	1.67E-08	4.44E-09	3.32E-09	1.10E-10	0.00E+00	7.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3542	760814.16	4069841.91	3.45E-08	2.96E-08	1.20E-09	0.00E+00	6.54E-08	5.26E-09	4.57E-09	1.82E-10	0.00E+00	1.00E-08	2.67E-09	1.99E-09	6.59E-11	0.00E+00	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3543	760823.8	4069820.11	3.37E-08	2.89E-08	1.17E-09	0.00E+00	6.38E-08	5.14E-09	4.46E-09	1.77E-10	0.00E+00	9.78E-09	2.61E-09	1.95E-09	6.43E-11	0.00E+00	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3544	760833.44	4069798.31	3.30E-08	2.83E-08	1.15E-09	0.00E+00	6.24E-08	5.03E-09	4.36E-09	1.74E-10	0.00E+00	9.57E-09	2.55E-09	1.90E-09	6.29E-11	0.00E+00	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3545	760843.08	4069776.52	3.24E-08	2.78E-08	1.12E-09	0.00E+00	6.12E-08	4.93E-09	4.28E-09	1.70E-10	0.00E+00	9.38E-09	2.50E-09	1.87E-09	6.17E-11	0.00E+00	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3546	760852.72	4069754.72	3.18E-08	2.73E-08	1.10E-09	0.00E+00	6.02E-08	4.85E-09	4.21E-09	1.67E-10	0.00E+00	9.22E-09	2.46E-09	1.84E-09	6.07E-11	0.00E+00	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3547	760862.36	4069732.92	3.13E-08	2.68E-08	1.09E-09	0.00E+00	5.92E-08	4.77E-09	4.14E-09	1.65E-10	0.00E+00	9.07E-09	2.42E-09	1.80E-09	5.96E-11	0.00E+00	4.28E-09	0.00E+00	0.00E+00	0.00E+00			

3637	760830.73	4069576.79	2.61E-08	2.24E-08	9.07E-10	0.00E+00	4.95E-08	3.98E-09	3.46E-09	1.38E-10	0.00E+00	7.58E-09	2.02E-09	1.51E-09	4.98E-11	0.00E+00	3.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3638	760840.44	4069554.84	2.55E-08	2.19E-08	8.86E-10	0.00E+00	4.83E-08	3.89E-09	3.37E-09	1.34E-10	0.00E+00	7.40E-09	1.97E-09	1.47E-09	4.86E-11	0.00E+00	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3639	760850.14	4069532.89	2.49E-08	2.13E-08	8.64E-10	0.00E+00	4.71E-08	3.79E-09	3.29E-09	1.31E-10	0.00E+00	7.22E-09	1.92E-09	1.44E-09	4.75E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3640	760859.85	4069510.94	2.43E-08	2.08E-08	8.43E-10	0.00E+00	4.59E-08	3.70E-09	3.21E-09	1.28E-10	0.00E+00	7.04E-09	1.88E-09	1.40E-09	4.63E-11	0.00E+00	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3641	760869.56	4069488.99	2.37E-08	2.03E-08	8.23E-10	0.00E+00	4.49E-08	3.61E-09	3.13E-09	1.25E-10	0.00E+00	6.87E-09	1.83E-09	1.37E-09	4.52E-11	0.00E+00	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3642	760879.27	4069467.04	2.33E-08	1.99E-08	8.07E-10	0.00E+00	4.40E-08	3.54E-09	3.07E-09	1.22E-10	0.00E+00	6.74E-09	1.80E-09	1.34E-09	4.43E-11	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3643	760888.98	4069445.09	2.29E-08	1.96E-08	7.94E-10	0.00E+00	4.33E-08	3.49E-09	3.02E-09	1.20E-10	0.00E+00	6.63E-09	1.77E-09	1.32E-09	4.36E-11	0.00E+00	3.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3644	760898.68	4069423.14	2.26E-08	1.94E-08	7.84E-10	0.00E+00	4.27E-08	3.44E-09	2.98E-09	1.19E-10	0.00E+00	6.54E-09	1.74E-09	1.30E-09	4.30E-11	0.00E+00	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3645	760908.39	4069401.19	2.23E-08	1.91E-08	7.73E-10	0.00E+00	4.21E-08	3.39E-09	2.94E-09	1.17E-10	0.00E+00	6.46E-09	1.72E-09	1.28E-09	4.25E-11	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3646	760918.1	4069379.24	2.20E-08	1.89E-08	7.64E-10	0.00E+00	4.16E-08	3.35E-09	2.91E-09	1.16E-10	0.00E+00	6.38E-09	1.70E-09	1.27E-09	4.20E-11	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3647	760927.81	4069357.29	2.18E-08	1.87E-08	7.58E-10	0.00E+00	4.13E-08	3.33E-09	2.89E-09	1.15E-10	0.00E+00	6.33E-09	1.69E-09	1.26E-09	4.16E-11	0.00E+00	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3648	760937.51	4069335.34	2.16E-08	1.85E-08	7.49E-10	0.00E+00	4.08E-08	3.29E-09	2.85E-09	1.14E-10	0.00E+00	6.26E-09	1.67E-09	1.25E-09	4.11E-11	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3649	760947.22	4069313.39	2.13E-08	1.83E-08	7.41E-10	0.00E+00	4.04E-08	3.25E-09	2.82E-09	1.12E-10	0.00E+00	6.18E-09	1.65E-09	1.23E-09	4.07E-11	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3650	760956.93	4069291.44	2.11E-08	1.81E-08	7.32E-10	0.00E+00	3.99E-08	3.22E-09	2.79E-09	1.11E-10	0.00E+00	6.12E-09	1.63E-09	1.22E-09	4.02E-11	0.00E+00	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3651	760966.64	4069269.5	2.09E-08	1.79E-08	7.24E-10	0.00E+00	3.95E-08	3.18E-09	2.76E-09	1.10E-10	0.00E+00	6.05E-09	1.61E-09	1.20E-09	3.98E-11	0.00E+00	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3652	760976.34	4069247.55	2.07E-08	1.77E-08	7.17E-10	0.00E+00	3.91E-08	3.15E-09	2.73E-09	1.09E-10	0.00E+00	5.99E-09	1.60E-09	1.19E-09	3.94E-11	0.00E+00	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3653	760986.05	4069225.6	2.04E-08	1.75E-08	7.07E-10	0.00E+00	3.86E-08	3.10E-09	2.69E-09	1.07E-10	0.00E+00	5.91E-09	1.57E-09	1.18E-09	3.88E-11	0.00E+00	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3654	760995.76	4069203.65	2.01E-08	1.73E-08	6.99E-10	0.00E+00	3.81E-08	3.07E-09	2.66E-09	1.06E-10	0.00E+00	5.84E-09	1.56E-09	1.16E-09	3.84E-11	0.00E+00	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3655	761005.47	4069181.7	1.99E-08	1.71E-08	6.91E-10	0.00E+00	3.76E-08	3.03E-09	2.63E-09	1.05E-10	0.00E+00	5.77E-09	1.54E-09	1.15E-09	3.79E-11	0.00E+00	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3656	761015.18	4069159.75	1.95E-08	1.67E-08	6.77E-10	0.00E+00	3.69E-08	2.97E-09	2.58E-09	1.03E-10	0.00E+00	5.65E-09	1.51E-09	1.13E-09	3.72E-11	0.00E+00	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3657	761024.88	4069137.8	1.91E-08	1.64E-08	6.64E-10	0.00E+00	3.62E-08	2.91E-09	2.53E-09	1.01E-10	0.00E+00	5.54E-09	1.48E-09	1.10E-09	3.64E-11	0.00E+00	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3658	761034.59	4069115.85	1.88E-08	1.61E-08	6.53E-10	0.00E+00	3.56E-08	2.87E-09	2.49E-09	9.90E-11	0.00E+00	5.45E-09	1.45E-09	1.09E-09	3.59E-11	0.00E+00	2.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3659	761044.3	4069093.9	1.84E-08	1.58E-08	6.38E-10	0.00E+00	3.48E-08	2.80E-09	2.43E-09	9.67E-11	0.00E+00	5.33E-09	1.42E-09	1.06E-09	3.50E-11	0.00E+00	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3660	761054.01	4069071.95	1.81E-08	1.55E-08	6.27E-10	0.00E+00	3.42E-08	2.75E-09	2.39E-09	9.51E-11	0.00E+00	5.24E-09	1.40E-09	1.04E-09	3.44E-11	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3661	761063.71	4069050	1.77E-08	1.52E-08	6.16E-10	0.00E+00	3.36E-08	2.70E-09	2.34E-09	9.33E-11	0.00E+00	5.14E-09	1.37E-09	1.02E-09	3.38E-11	0.00E+00	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3662	761073.42	4069028.05	1.74E-08	1.49E-08	6.03E-10	0.00E+00	3.29E-08	2.65E-09	2.30E-09	9.13E-11	0.00E+00	5.03E-09	1.34E-09	1.00E-09	3.31E-11	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3663	761105.65	4068997.8	1.72E-08	1.47E-08	5.96E-10	0.00E+00	3.25E-08	2.62E-09	2.27E-09	9.04E-11	0.00E+00	4.98E-09	1.33E-09	9.91E-10	3.28E-11	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3664	761128.17	4068989.5	1.73E-08	1.49E-08	6.02E-10	0.00E+00	3.28E-08	2.64E-09	2.29E-09	9.12E-11	0.00E+00	5.03E-09	1.34E-09	1.00E-09	3.31E-11	0.00E+00	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3665	761150.69	4068981.2	1.74E-08	1.49E-08	6.04E-10	0.00E+00	3.30E-08	2.65E-09	2.30E-09	9.16E-11	0.00E+00	5.05E-09	1.35E-09	1.00E-09	3.32E-11	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3666	761173.21	4068972.91	1.75E-08	1.50E-08	6.08E-10	0.00E+00	3.31E-08	2.67E-09	2.31E-09	9.21E-11	0.00E+00	5.07E-09	1.35E-09	1.01E-09	3.34E-11	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3667	761195.73	4068964.61	1.76E-08	1.51E-08	6.11E-10	0.00E+00	3.33E-08	2.68E-09	2.33E-09	9.26E-11	0.00E+00	5.10E-09	1.36E-09	1.01E-09	3.35E-11	0.00E+00	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3668	761218.25	4068956.31	1.78E-08	1.52E-08	6.17E-10	0.00E+00	3.36E-08	2.71E-09	2.35E-09	9.35E-11	0.00E+00	5.15E-09	1.37E-09	1.03E-09	3.39E-11	0.00E+00	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3669	761240.77	4068948.01	1.80E-08	1.54E-08	6.25E-10	0.00E+00	3.41E-08	2.74E-09	2.38E-09	9.47E-11	0.00E+00	5.22E-09	1.39E-09	1.04E-09	3.43E-11	0.00E+00	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3670	761263.29	4068939.71	1.82E-08	1.56E-08	6.32E-10	0.00E+00	3.44E-08	2.77E-09	2.41E-09	9.57E-11	0.00E+00	5.27E-09	1.41E-09	1.05E-09	3.47E-11	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3671	761285.8	4068931.41	1.83E-08	1.57E-08	6.35E-10	0.00E+00	3.46E-08	2.79E-09	2.42E-09	9.62E-11	0.00E+00	5.30E-09	1.41E-09	1.05E-09	3.49E-11	0.00E+00	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3672	761308.32	4068923.11	1.82E-08	1.56E-08	6.33E-10	0.00E+00	3.45E-08	2.78E-09	2.41E-09	9.60E-11	0.00E+00	5.29E-09	1.41E-09	1.05E-09	3.48E-11	0.00E+00	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3673	761330.84	4068914.81	1.82E-08	1.56E-08	6.32E-10	0.00E+00	3.45E-08	2.78E-09	2.41E-09	9.58E-11	0.00E+00	5.28E-09	1.41E-09	1.05E-09	3.47E-11	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3674	761353.36	4068906.51	1.82E-08	1.56E-08	6.30E-10	0.00E+00	3.44E-08	2.77E-09	2.40E-09	9.55E-11	0.00E+00	5.26E-09	1.40E-09	1.05E-09	3.46E-11	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3675	761375.88	4068898.21	1.80E-08	1.54E-08	6.25E-10	0.00E+00	3.41E-08	2.75E-09	2.38E-09	9.48E-11	0.00E+00	5.22E-09	1.39E-09	1.04E-09	3.43E-11	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3676	761398.4	4068889.91	1.77E-08	1.52E-08	6.14E-10	0.00E+00	3.35E-08	2.69E-09	2.34E-09	9.30E-11	0.00E+00	5.12E-09	1.37E-09	1.02E-09	3.37E-11	0.00E+00	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3677	761420.92	4068881.61	1.73E-08	1.49E-08	6.02E-10	0.00E+00	3.28E-08	2.64E-09	2.29E-09	9.12E-11	0.00E+00	5.03E-09	1.34E-09	1.00E-09	3.31E-11	0.00E+00	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3678	761443.44	4068873.31	1.70E-08	1.46E-08	5.92E-10	0.00E+00	3.22E-08	2.60E-09	2.25E-09	8.97E-11	0.00E+00	4.94E-09	1.32E-09	9.83E-10	3.25E-11	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3679	761465.96	4068865.01	1.67E-08	1.43E-08	5.80E-10	0.00E+00	3.16E-08	2.55E-09	2.21E-09	8.79E-11	0.00E+00	4.84E-09	1.29E-09	9.64E-10	3.18E-11	0.00E+00						

3767	761541.68	4070271.6	3.08E-07	2.64E-07	1.07E-08	0.00E+00	5.83E-07	4.70E-08	4.08E-08	1.62E-09	0.00E+00	8.93E-08	2.38E-08	1.78E-08	5.88E-10	0.00E+00	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3768	761533.32	4070250.02	2.94E-07	2.52E-07	1.02E-08	0.00E+00	5.57E-07	4.48E-08	3.89E-08	1.55E-09	0.00E+00	8.53E-08	2.27E-08	1.70E-08	5.61E-10	0.00E+00	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3769	761524.95	4070228.45	2.78E-07	2.39E-07	9.65E-09	0.00E+00	5.26E-07	4.24E-08	3.68E-08	1.46E-09	0.00E+00	8.06E-08	2.15E-08	1.60E-08	5.30E-10	0.00E+00	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3770	761516.59	4070206.87	2.61E-07	2.24E-07	9.07E-09	0.00E+00	4.94E-07	3.98E-08	3.45E-08	1.37E-09	0.00E+00	7.57E-08	2.02E-08	1.51E-08	4.98E-10	0.00E+00	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3771	761508.23	4070185.29	2.44E-07	2.09E-07	8.47E-09	0.00E+00	4.62E-07	3.72E-08	3.22E-08	1.28E-09	0.00E+00	7.07E-08	1.89E-08	1.41E-08	4.65E-10	0.00E+00	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3772	761929.25	4070571.74	1.03E-07	8.84E-08	3.58E-09	0.00E+00	1.95E-07	1.57E-08	1.36E-08	5.43E-10	0.00E+00	2.99E-08	7.97E-09	5.95E-09	1.97E-10	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3773	761490.64	4070268.11	2.53E-07	2.17E-07	8.77E-09	0.00E+00	4.78E-07	3.85E-08	3.34E-08	1.33E-09	0.00E+00	7.32E-08	1.95E-08	1.46E-08	4.81E-10	0.00E+00	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3774	761482.49	4070247.08	2.41E-07	2.07E-07	8.37E-09	0.00E+00	4.56E-07	3.67E-08	3.19E-08	1.27E-09	0.00E+00	6.99E-08	1.86E-08	1.39E-08	4.60E-10	0.00E+00	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3775	761474.33	4070226.04	2.28E-07	1.96E-07	7.93E-09	0.00E+00	4.32E-07	3.48E-08	3.02E-08	1.20E-09	0.00E+00	6.62E-08	1.77E-08	1.32E-08	4.35E-10	0.00E+00	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3776	761466.18	4070205	2.15E-07	1.84E-07	7.46E-09	0.00E+00	4.07E-07	3.28E-08	2.84E-08	1.13E-09	0.00E+00	6.23E-08	1.66E-08	1.24E-08	4.10E-10	0.00E+00	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3777	761458.03	4070183.97	2.01E-07	1.73E-07	6.99E-09	0.00E+00	3.81E-07	3.07E-08	2.66E-08	1.06E-09	0.00E+00	5.84E-08	1.56E-08	1.16E-08	3.84E-10	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3778	761856.16	4070659.73	8.28E-08	7.10E-08	2.88E-09	0.00E+00	1.57E-07	1.26E-08	1.10E-08	4.36E-10	0.00E+00	2.40E-08	6.40E-09	4.78E-09	1.58E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3779	761813.44	4070640.14	1.07E-07	9.20E-08	3.72E-09	0.00E+00	2.03E-07	1.63E-08	1.42E-08	5.64E-10	0.00E+00	3.11E-08	8.29E-09	6.19E-09	2.05E-10	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3780	761770.72	4070620.54	1.35E-07	1.16E-07	4.70E-09	0.00E+00	2.56E-07	2.06E-08	1.79E-08	7.13E-10	0.00E+00	3.93E-08	1.05E-08	7.81E-09	2.58E-10	0.00E+00	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3781	761728	4070600.94	1.66E-07	1.42E-07	5.75E-09	0.00E+00	3.13E-07	2.52E-08	2.19E-08	8.71E-10	0.00E+00	4.80E-08	1.28E-08	9.55E-09	3.16E-10	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3782	761685.28	4070581.34	1.94E-07	1.66E-07	6.72E-09	0.00E+00	3.66E-07	2.95E-08	2.56E-08	1.02E-09	0.00E+00	5.61E-08	1.50E-08	1.12E-08	3.69E-10	0.00E+00	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3783	761442.34	4070271.71	2.12E-07	1.82E-07	7.37E-09	0.00E+00	4.02E-07	3.23E-08	2.81E-08	1.12E-09	0.00E+00	6.15E-08	1.64E-08	1.22E-08	4.05E-10	0.00E+00	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3784	761433.85	4070249.79	2.04E-07	1.75E-07	7.07E-09	0.00E+00	3.85E-07	3.10E-08	2.69E-08	1.07E-09	0.00E+00	5.90E-08	1.57E-08	1.18E-08	3.88E-10	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3785	761425.36	4070227.88	1.93E-07	1.65E-07	6.69E-09	0.00E+00	3.65E-07	2.94E-08	2.55E-08	1.01E-09	0.00E+00	5.59E-08	1.49E-08	1.11E-08	3.68E-10	0.00E+00	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3786	761416.87	4070205.97	1.82E-07	1.56E-07	6.30E-09	0.00E+00	3.43E-07	2.77E-08	2.40E-08	9.55E-10	0.00E+00	5.26E-08	1.40E-08	1.05E-08	3.46E-10	0.00E+00	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3787	761408.37	4070184.05	1.70E-07	1.46E-07	5.91E-09	0.00E+00	3.22E-07	2.59E-08	2.25E-08	8.96E-10	0.00E+00	4.93E-08	1.32E-08	9.82E-09	3.25E-10	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3788	761399.71	4070289.91	1.87E-07	1.60E-07	6.49E-09	0.00E+00	3.54E-07	2.85E-08	2.47E-08	9.84E-10	0.00E+00	5.42E-08	1.45E-08	1.08E-08	3.57E-10	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3789	761391.4	4070268.48	1.80E-07	1.54E-07	6.25E-09	0.00E+00	3.41E-07	2.74E-08	2.38E-08	9.48E-10	0.00E+00	5.22E-08	1.39E-08	1.04E-08	3.43E-10	0.00E+00	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3790	761383.1	4070247.06	1.73E-07	1.48E-07	6.00E-09	0.00E+00	3.27E-07	2.64E-08	2.29E-08	9.10E-10	0.00E+00	5.01E-08	1.34E-08	9.98E-09	3.30E-10	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3791	761374.8	4070225.63	1.64E-07	1.41E-07	5.70E-09	0.00E+00	3.11E-07	2.50E-08	2.17E-08	8.64E-10	0.00E+00	4.76E-08	1.27E-08	9.47E-09	3.13E-10	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3792	761366.49	4070204.2	1.55E-07	1.33E-07	5.39E-09	0.00E+00	2.94E-07	2.37E-08	2.05E-08	8.17E-10	0.00E+00	4.50E-08	1.20E-08	8.96E-09	2.96E-10	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3793	761358.19	4070182.78	1.46E-07	1.26E-07	5.08E-09	0.00E+00	2.77E-07	2.23E-08	1.94E-08	7.70E-10	0.00E+00	4.24E-08	1.13E-08	8.45E-09	2.79E-10	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3794	761922.56	4070721.59	4.83E-08	4.14E-08	1.68E-09	0.00E+00	9.14E-08	7.36E-09	6.39E-09	2.54E-10	0.00E+00	1.40E-08	3.74E-09	2.79E-09	9.21E-11	0.00E+00	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3795	761483.45	4070590.7	1.83E-07	1.57E-07	6.34E-09	0.00E+00	3.46E-07	2.78E-08	2.42E-08	9.62E-10	0.00E+00	5.30E-08	1.41E-08	1.05E-08	3.48E-10	0.00E+00	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3796	761454.79	4070560.26	1.89E-07	1.62E-07	6.57E-09	0.00E+00	3.58E-07	2.88E-08	2.50E-08	9.96E-10	0.00E+00	5.49E-08	1.46E-08	1.09E-08	3.61E-10	0.00E+00	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3797	761446.64	4070539.22	1.94E-07	1.66E-07	6.74E-09	0.00E+00	3.67E-07	2.96E-08	2.57E-08	1.02E-09	0.00E+00	5.63E-08	1.50E-08	1.12E-08	3.70E-10	0.00E+00	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3798	761438.48	4070518.18	1.97E-07	1.69E-07	6.85E-09	0.00E+00	3.73E-07	3.01E-08	2.61E-08	1.04E-09	0.00E+00	5.72E-08	1.52E-08	1.14E-08	3.76E-10	0.00E+00	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3799	761430.33	4070497.15	1.98E-07	1.70E-07	6.89E-09	0.00E+00	3.76E-07	3.02E-08	2.62E-08	1.04E-09	0.00E+00	5.75E-08	1.53E-08	1.14E-08	3.78E-10	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3800	761422.18	4070476.11	1.98E-07	1.70E-07	6.89E-09	0.00E+00	3.75E-07	3.02E-08	2.62E-08	1.04E-09	0.00E+00	5.75E-08	1.53E-08	1.14E-08	3.78E-10	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3801	761414.03	4070455.07	1.97E-07	1.69E-07	6.84E-09	0.00E+00	3.73E-07	3.00E-08	2.61E-08	1.04E-09	0.00E+00	5.71E-08	1.52E-08	1.14E-08	3.76E-10	0.00E+00	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3802	761405.87	4070434.04	1.95E-07	1.67E-07	6.75E-09	0.00E+00	3.68E-07	2.96E-08	2.57E-08	1.02E-09	0.00E+00	5.64E-08	1.50E-08	1.12E-08	3.71E-10	0.00E+00	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3803	761397.72	4070413	1.91E-07	1.64E-07	6.64E-09	0.00E+00	3.62E-07	2.91E-08	2.53E-08	1.01E-09	0.00E+00	5.54E-08	1.48E-08	1.10E-08	3.65E-10	0.00E+00	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3804	761389.57	4070391.96	1.87E-07	1.60E-07	6.49E-09	0.00E+00	3.54E-07	2.85E-08	2.47E-08	9.84E-10	0.00E+00	5.42E-08	1.45E-08	1.08E-08	3.57E-10	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3805	761381.42	4070370.93	1.82E-07	1.56E-07	6.33E-09	0.00E+00	3.45E-07	2.78E-08	2.41E-08	9.59E-10	0.00E+00	5.29E-08	1.41E-08	1.05E-08	3.48E-10	0.00E+00	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3806	761373.27	4070349.89	1.77E-07	1.52E-07	6.14E-09	0.00E+00	3.35E-07	2.70E-08	2.34E-08	9.31E-10	0.00E+00	5.13E-08	1.37E-08	1.02E-08	3.37E-10	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3807	761365.11	4070328.85	1.72E-07	1.47E-07	5.95E-09	0.00E+00	3.25E-07	2.61E-08	2.27E-08	9.02E-10	0.00E+00	4.97E-08	1.33E-08	9.90E-09	3.27E-10	0.00E+00	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.0		

3897	761166.81	4070330.01	1.08E-07	9.29E-08	3.76E-09	0.00E+00	2.05E-07	1.65E-08	1.43E-08	5.70E-10	0.00E+00	3.14E-08	8.37E-09	6.25E-09	2.06E-10	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3898	761158.45	4070308.44	1.05E-07	9.02E-08	3.65E-09	0.00E+00	1.99E-07	1.60E-08	1.39E-08	5.54E-10	0.00E+00	3.05E-08	8.13E-09	6.07E-09	2.01E-10	0.00E+00	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3899	761150.09	4070286.86	1.02E-07	8.76E-08	3.55E-09	0.00E+00	1.93E-07	1.56E-08	1.35E-08	5.38E-10	0.00E+00	2.96E-08	7.90E-09	5.89E-09	1.95E-10	0.00E+00	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3900	761141.73	4070265.29	9.87E-08	8.46E-08	3.43E-09	0.00E+00	1.87E-07	1.50E-08	1.30E-08	5.19E-10	0.00E+00	2.86E-08	7.63E-09	5.69E-09	1.88E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3901	761133.36	4070243.71	9.48E-08	8.13E-08	3.29E-09	0.00E+00	1.79E-07	1.45E-08	1.25E-08	4.99E-10	0.00E+00	2.75E-08	7.33E-09	5.47E-09	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3902	761125	4070222.13	9.08E-08	7.79E-08	3.15E-09	0.00E+00	1.72E-07	1.38E-08	1.20E-08	4.78E-10	0.00E+00	2.63E-08	7.02E-09	5.24E-09	1.73E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3903	761116.64	4070200.56	8.65E-08	7.42E-08	3.00E-09	0.00E+00	1.64E-07	1.32E-08	1.14E-08	4.55E-10	0.00E+00	2.51E-08	6.69E-09	4.99E-09	1.65E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3904	761108.28	4070178.98	8.23E-08	7.06E-08	2.86E-09	0.00E+00	1.56E-07	1.25E-08	1.09E-08	4.33E-10	0.00E+00	2.39E-08	6.36E-09	4.75E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3905	761864.14	4070969.23	2.42E-08	2.07E-08	8.40E-10	0.00E+00	4.58E-08	3.69E-09	3.20E-09	1.27E-10	0.00E+00	7.01E-09	1.87E-09	1.40E-09	4.61E-11	0.00E+00	3.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3906	761838.47	4071059.4	2.06E-08	1.77E-08	7.15E-10	0.00E+00	3.90E-08	3.14E-09	2.72E-09	1.08E-10	0.00E+00	5.97E-09	1.59E-09	1.19E-09	3.93E-11	0.00E+00	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3907	761817.26	4071049.67	2.21E-08	1.90E-08	7.68E-10	0.00E+00	4.19E-08	3.37E-09	2.93E-09	1.16E-10	0.00E+00	6.41E-09	1.71E-09	1.28E-09	4.22E-11	0.00E+00	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3908	761796.04	4071039.94	2.39E-08	2.05E-08	8.29E-10	0.00E+00	4.52E-08	3.64E-09	3.16E-09	1.26E-10	0.00E+00	6.92E-09	1.85E-09	1.38E-09	4.55E-11	0.00E+00	3.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3909	761774.83	4071030.21	2.58E-08	2.21E-08	8.96E-10	0.00E+00	4.89E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.48E-09	2.00E-09	1.49E-09	4.92E-11	0.00E+00	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3910	761753.62	4071020.48	2.79E-08	2.39E-08	9.69E-10	0.00E+00	5.28E-08	4.25E-09	3.69E-09	1.47E-10	0.00E+00	8.09E-09	2.16E-09	1.61E-09	5.32E-11	0.00E+00	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3911	761732.4	4071010.75	3.06E-08	2.62E-08	1.06E-09	0.00E+00	5.78E-08	4.66E-09	4.04E-09	1.61E-10	0.00E+00	8.86E-09	2.36E-09	1.76E-09	5.83E-11	0.00E+00	4.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3912	761711.19	4071001.01	3.33E-08	2.86E-08	1.16E-09	0.00E+00	6.31E-08	5.08E-09	4.41E-09	1.75E-10	0.00E+00	9.66E-09	2.58E-09	1.92E-09	6.35E-11	0.00E+00	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3913	761689.98	4070991.28	3.64E-08	3.12E-08	1.26E-09	0.00E+00	6.89E-08	5.54E-09	4.81E-09	1.91E-10	0.00E+00	1.05E-08	2.81E-09	2.10E-09	6.94E-11	0.00E+00	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3914	761668.76	4070981.55	3.96E-08	3.40E-08	1.38E-09	0.00E+00	7.50E-08	6.04E-09	5.24E-09	2.09E-10	0.00E+00	1.15E-08	3.06E-09	2.29E-09	7.56E-11	0.00E+00	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3915	761647.55	4070971.82	4.30E-08	3.68E-08	1.49E-09	0.00E+00	8.13E-08	6.55E-09	5.68E-09	2.26E-10	0.00E+00	1.25E-08	3.32E-09	2.48E-09	8.19E-11	0.00E+00	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3916	761626.34	4070962.09	4.68E-08	4.02E-08	1.63E-09	0.00E+00	8.86E-08	7.14E-09	6.19E-09	2.46E-10	0.00E+00	1.36E-08	3.62E-09	2.70E-09	8.93E-11	0.00E+00	6.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3917	761605.12	4070952.36	5.10E-08	4.37E-08	1.77E-09	0.00E+00	9.65E-08	7.77E-09	6.75E-09	2.68E-10	0.00E+00	1.48E-08	3.94E-09	2.94E-09	9.73E-11	0.00E+00	6.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3918	761583.91	4070942.63	5.51E-08	4.73E-08	1.91E-09	0.00E+00	1.04E-07	8.40E-09	7.29E-09	2.90E-10	0.00E+00	1.60E-08	4.26E-09	3.18E-09	1.05E-10	0.00E+00	7.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3919	761562.7	4070932.89	5.93E-08	5.08E-08	2.06E-09	0.00E+00	1.12E-07	9.03E-09	7.84E-09	3.12E-10	0.00E+00	1.72E-08	4.58E-09	3.42E-09	1.13E-10	0.00E+00	8.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3920	761541.48	4070923.16	6.35E-08	5.44E-08	2.20E-09	0.00E+00	1.20E-07	9.67E-09	8.39E-09	3.34E-10	0.00E+00	1.84E-08	4.90E-09	3.66E-09	1.21E-10	0.00E+00	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3921	761520.27	4070913.43	6.74E-08	5.78E-08	2.34E-09	0.00E+00	1.28E-07	1.03E-08	8.91E-09	3.55E-10	0.00E+00	1.95E-08	5.21E-09	3.89E-09	1.29E-10	0.00E+00	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3922	761499.06	4070903.7	7.18E-08	6.15E-08	2.49E-09	0.00E+00	1.36E-07	1.09E-08	9.49E-09	3.77E-10	0.00E+00	2.08E-08	5.55E-09	4.14E-09	1.37E-10	0.00E+00	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3923	761477.85	4070893.97	7.58E-08	6.50E-08	2.63E-09	0.00E+00	1.43E-07	1.16E-08	1.00E-08	3.99E-10	0.00E+00	2.20E-08	5.86E-09	4.37E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3924	761456.63	4070884.24	7.98E-08	6.84E-08	2.77E-09	0.00E+00	1.51E-07	1.22E-08	1.06E-08	4.20E-10	0.00E+00	2.31E-08	6.17E-09	4.60E-09	1.52E-10	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3925	761435.42	4070874.51	8.37E-08	7.18E-08	2.91E-09	0.00E+00	1.58E-07	1.28E-08	1.11E-08	4.40E-10	0.00E+00	2.43E-08	6.47E-09	4.83E-09	1.60E-10	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3926	761414.21	4070864.77	8.74E-08	7.50E-08	3.04E-09	0.00E+00	1.65E-07	1.33E-08	1.16E-08	4.60E-10	0.00E+00	2.53E-08	6.76E-09	5.04E-09	1.67E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3927	761392.99	4070855.04	9.10E-08	7.80E-08	3.16E-09	0.00E+00	1.72E-07	1.39E-08	1.20E-08	4.79E-10	0.00E+00	2.64E-08	7.03E-09	5.25E-09	1.74E-10	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3928	761371.78	4070845.31	9.42E-08	8.08E-08	3.27E-09	0.00E+00	1.78E-07	1.44E-08	1.25E-08	4.96E-10	0.00E+00	2.73E-08	7.28E-09	5.44E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3929	761350.57	4070835.58	9.72E-08	8.33E-08	3.37E-09	0.00E+00	1.84E-07	1.48E-08	1.28E-08	5.11E-10	0.00E+00	2.82E-08	7.51E-09	5.61E-09	1.85E-10	0.00E+00	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3930	761265.71	4070796.65	1.05E-07	9.01E-08	3.65E-09	0.00E+00	1.99E-07	1.60E-08	1.39E-08	5.52E-10	0.00E+00	3.04E-08	8.12E-09	6.06E-09	2.00E-10	0.00E+00	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3931	761236.07	4070765.16	1.09E-07	9.33E-08	3.78E-09	0.00E+00	2.06E-07	1.66E-08	1.44E-08	5.72E-10	0.00E+00	3.15E-08	8.41E-09	6.28E-09	2.07E-10	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3932	761227.63	4070743.4	1.11E-07	9.54E-08	3.86E-09	0.00E+00	2.11E-07	1.70E-08	1.47E-08	5.86E-10	0.00E+00	3.23E-08	8.60E-09	6.42E-09	2.12E-10	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3933	761219.2	4070721.64	1.13E-07	9.70E-08	3.93E-09	0.00E+00	2.14E-07	1.72E-08	1.50E-08	5.95E-10	0.00E+00	3.28E-08	8.75E-09	6.53E-09	2.16E-10	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3934	761210.77	4070699.88	1.14E-07	9.80E-08	3.97E-09	0.00E+00	2.16E-07	1.74E-08	1.51E-08	6.01E-10	0.00E+00	3.31E-08	8.84E-09	6.59E-09	2.18E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3935	761202.33	4070678.11	1.15E-07	9.84E-08	3.99E-09	0.00E+00	2.17E-07	1.75E-08	1.52E-08	6.04E-10	0.00E+00	3.33E-08	8.87E-09	6.62E-09	2.19E-10	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3936	761193.9	4070656.35	1.15E-07	9.83E-08	3.98E-09	0.00E+00	2.17E-07	1.75E-08	1.52E-08	6.03E-10	0.00E+00	3.32E-08	8.86E-09	6.62E-09	2.19E-10	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3937	761185.47	4070634.59	1.14E-07	9.78E-08	3.96E-09	0.00E+00	2.16E-07	1.74E-08	1.51E-08	6.00E-10	0.00E+00	3.30E-08	8.81E-09	6.58E-09	2.17E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3938	761177.03	4070612.83	1.13E-07	9.68E-08	3.92E-09	0.00E+00	2.14E-07	1.72E-08	1.49E-08	5.94E-10	0.00E+00	3.27E-08	8.73E-09	6.51E-09	2.15E-10	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3939	761168.6	4070591.07	1.12E-07	9.56E-08	3.87E-09	0.00E+00	2.11E-07	1.70E-08	1.47E-08	5.87E-10	0.00E+00	3.23E-08	8.62E-09	6.43E-09	2.13E-10	0.00E+						

4027	761678.9	4071190.1	2.16E-08	1.86E-08	7.51E-10	0.00E+00	4.09E-08	3.30E-09	2.86E-09	1.14E-10	0.00E+00	6.27E-09	1.67E-09	1.25E-09	4.12E-11	0.00E+00	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4028	761657.42	4071180.24	2.33E-08	2.00E-08	8.08E-10	0.00E+00	4.41E-08	3.55E-09	3.08E-09	1.22E-10	0.00E+00	6.75E-09	1.80E-09	1.34E-09	4.44E-11	0.00E+00	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4029	761635.94	4071170.39	2.51E-08	2.15E-08	8.70E-10	0.00E+00	4.74E-08	3.82E-09	3.31E-09	1.32E-10	0.00E+00	7.26E-09	1.94E-09	1.45E-09	4.78E-11	0.00E+00	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4030	761614.45	4071160.53	2.69E-08	2.31E-08	9.35E-10	0.00E+00	5.10E-08	4.10E-09	3.56E-09	1.42E-10	0.00E+00	7.81E-09	2.08E-09	1.55E-09	5.14E-11	0.00E+00	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4031	761592.97	4071150.68	2.90E-08	2.48E-08	1.01E-09	0.00E+00	5.48E-08	4.41E-09	3.83E-09	1.52E-10	0.00E+00	8.39E-09	2.24E-09	1.67E-09	5.52E-11	0.00E+00	3.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4032	761571.49	4071140.82	3.15E-08	2.70E-08	1.09E-09	0.00E+00	5.96E-08	4.80E-09	4.16E-09	1.66E-10	0.00E+00	9.12E-09	2.43E-09	1.82E-09	6.00E-11	0.00E+00	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4033	761550.01	4071130.97	3.37E-08	2.89E-08	1.17E-09	0.00E+00	6.38E-08	5.14E-09	4.46E-09	1.77E-10	0.00E+00	9.77E-09	2.61E-09	1.94E-09	6.43E-11	0.00E+00	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4034	761528.52	4071121.11	3.63E-08	3.11E-08	1.26E-09	0.00E+00	6.86E-08	5.53E-09	4.79E-09	1.91E-10	0.00E+00	1.05E-08	2.80E-09	2.09E-09	6.91E-11	0.00E+00	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4035	761507.04	4071111.26	3.92E-08	3.36E-08	1.36E-09	0.00E+00	7.42E-08	5.97E-09	5.18E-09	2.06E-10	0.00E+00	1.14E-08	3.03E-09	2.26E-09	7.48E-11	0.00E+00	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4036	761485.56	4071101.4	4.19E-08	3.59E-08	1.45E-09	0.00E+00	7.93E-08	6.38E-09	5.54E-09	2.20E-10	0.00E+00	1.21E-08	3.24E-09	2.42E-09	7.99E-11	0.00E+00	5.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4037	761464.08	4071091.55	4.46E-08	3.82E-08	1.55E-09	0.00E+00	8.44E-08	6.80E-09	5.90E-09	2.35E-10	0.00E+00	1.29E-08	3.45E-09	2.57E-09	8.50E-11	0.00E+00	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4038	761442.59	4071081.69	4.74E-08	4.06E-08	1.64E-09	0.00E+00	8.97E-08	7.22E-09	6.26E-09	2.49E-10	0.00E+00	1.37E-08	3.66E-09	2.73E-09	9.03E-11	0.00E+00	6.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4039	761421.11	4071071.84	5.01E-08	4.30E-08	1.74E-09	0.00E+00	9.48E-08	7.63E-09	6.62E-09	2.64E-10	0.00E+00	1.45E-08	3.87E-09	2.89E-09	9.55E-11	0.00E+00	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4040	761399.63	4071061.98	5.27E-08	4.52E-08	1.83E-09	0.00E+00	9.97E-08	8.03E-09	6.96E-09	2.77E-10	0.00E+00	1.53E-08	4.07E-09	3.04E-09	1.00E-10	0.00E+00	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4041	761378.15	4071052.13	5.53E-08	4.74E-08	1.92E-09	0.00E+00	1.05E-07	8.42E-09	7.31E-09	2.91E-10	0.00E+00	1.60E-08	4.27E-09	3.19E-09	1.05E-10	0.00E+00	7.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4042	761356.66	4071042.27	5.79E-08	4.97E-08	2.01E-09	0.00E+00	1.10E-07	8.83E-09	7.66E-09	3.05E-10	0.00E+00	1.68E-08	4.48E-09	3.34E-09	1.10E-10	0.00E+00	7.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4043	761335.18	4071032.42	6.04E-08	5.17E-08	2.09E-09	0.00E+00	1.14E-07	9.20E-09	7.98E-09	3.17E-10	0.00E+00	1.75E-08	4.66E-09	3.48E-09	1.15E-10	0.00E+00	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4044	761313.7	4071022.56	6.27E-08	5.38E-08	2.18E-09	0.00E+00	1.19E-07	9.55E-09	8.29E-09	3.30E-10	0.00E+00	1.82E-08	4.85E-09	3.62E-09	1.20E-10	0.00E+00	8.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4045	761292.22	4071012.7	6.50E-08	5.58E-08	2.26E-09	0.00E+00	1.23E-07	9.91E-09	8.60E-09	3.42E-10	0.00E+00	1.88E-08	5.03E-09	3.75E-09	1.24E-10	0.00E+00	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4046	761270.73	4071002.85	6.73E-08	5.77E-08	2.34E-09	0.00E+00	1.27E-07	1.03E-08	8.90E-09	3.54E-10	0.00E+00	1.95E-08	5.20E-09	3.88E-09	1.28E-10	0.00E+00	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4047	761249.25	4070992.99	6.95E-08	5.96E-08	2.41E-09	0.00E+00	1.32E-07	1.06E-08	9.19E-09	3.66E-10	0.00E+00	2.02E-08	5.37E-09	4.01E-09	1.33E-10	0.00E+00	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4048	761227.77	4070983.14	7.16E-08	6.14E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.46E-09	3.76E-10	0.00E+00	2.07E-08	5.53E-09	4.13E-09	1.36E-10	0.00E+00	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4049	761206.29	4070973.28	7.33E-08	6.28E-08	2.54E-09	0.00E+00	1.39E-07	1.12E-08	9.69E-09	3.85E-10	0.00E+00	2.12E-08	5.66E-09	4.23E-09	1.40E-10	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4050	761120.36	4070933.86	7.92E-08	6.79E-08	2.75E-09	0.00E+00	1.50E-07	1.21E-08	1.05E-08	4.17E-10	0.00E+00	2.30E-08	6.12E-09	4.57E-09	1.51E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4051	761090.33	4070901.97	8.22E-08	7.05E-08	2.85E-09	0.00E+00	1.56E-07	1.25E-08	1.09E-08	4.33E-10	0.00E+00	2.38E-08	6.35E-09	4.74E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4052	761081.79	4070879.93	8.41E-08	7.21E-08	2.92E-09	0.00E+00	1.59E-07	1.28E-08	1.11E-08	4.43E-10	0.00E+00	2.44E-08	6.50E-09	4.85E-09	1.60E-10	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4053	761073.25	4070857.9	8.56E-08	7.34E-08	2.97E-09	0.00E+00	1.62E-07	1.30E-08	1.13E-08	4.50E-10	0.00E+00	2.48E-08	6.62E-09	4.94E-09	1.63E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4054	761064.71	4070835.86	8.68E-08	7.44E-08	3.01E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.57E-10	0.00E+00	2.52E-08	6.71E-09	5.01E-09	1.66E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4055	761056.17	4070813.82	8.74E-08	7.50E-08	3.04E-09	0.00E+00	1.65E-07	1.33E-08	1.16E-08	4.60E-10	0.00E+00	2.53E-08	6.76E-09	5.04E-09	1.67E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4056	761047.63	4070791.78	8.76E-08	7.51E-08	3.04E-09	0.00E+00	1.66E-07	1.33E-08	1.16E-08	4.61E-10	0.00E+00	2.54E-08	6.77E-09	5.05E-09	1.67E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4057	761039.09	4070769.74	8.73E-08	7.49E-08	3.03E-09	0.00E+00	1.65E-07	1.33E-08	1.15E-08	4.59E-10	0.00E+00	2.53E-08	6.75E-09	5.04E-09	1.66E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4058	761030.55	4070747.7	8.68E-08	7.44E-08	3.01E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.56E-10	0.00E+00	2.52E-08	6.71E-09	5.01E-09	1.65E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4059	761022.01	4070725.67	8.60E-08	7.37E-08	2.98E-09	0.00E+00	1.63E-07	1.31E-08	1.14E-08	4.52E-10	0.00E+00	2.49E-08	6.65E-09	4.96E-09	1.64E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4060	761013.47	4070703.63	8.49E-08	7.28E-08	2.95E-09	0.00E+00	1.61E-07	1.29E-08	1.12E-08	4.46E-10	0.00E+00	2.46E-08	6.56E-09	4.90E-09	1.62E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4061	761004.93	4070681.59	8.36E-08	7.17E-08	2.90E-09	0.00E+00	1.58E-07	1.27E-08	1.10E-08	4.40E-10	0.00E+00	2.42E-08	6.46E-09	4.82E-09	1.59E-10	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4062	760996.39	4070659.55	8.23E-08	7.06E-08	2.86E-09	0.00E+00	1.56E-07	1.25E-08	1.09E-08	4.33E-10	0.00E+00	2.38E-08	6.36E-09	4.75E-09	1.57E-10	0.00E+00	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4063	760987.85	4070637.51	8.11E-08	6.95E-08	2.81E-09	0.00E+00	1.53E-07	1.24E-08	1.07E-08	4.26E-10	0.00E+00	2.35E-08	6.27E-09	4.68E-09	1.55E-10	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4064	760979.31	4070615.48	8.01E-08	6.86E-08	2.78E-09	0.00E+00	1.51E-07	1.22E-08	1.06E-08	4.21E-10	0.00E+00	2.32E-08	6.19E-09	4.62E-09	1.53E-10	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4065	760970.77	4070593.44	7.91E-08	6.78E-08	2.75E-09	0.00E+00	1.50E-07	1.21E-08	1.05E-08	4.16E-10	0.00E+00	2.29E-08	6.11E-09	4.56E-09	1.51E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4066	760962.23	4070571.4	7.83E-08	6.72E-08	2.72E-09	0.00E+00	1.48E-07	1.19E-08	1.04E-08	4.12E-10	0.00E+00	2.27E-08	6.05E-09	4.52E-09	1.49E-10	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4067	760953.69	4070549.36	7.77E-08	6.66E-08	2.70E-09	0.00E+00	1.47E-07	1.18E-08	1.03E-08	4.09E-10	0.00E+00	2.25E-08	6.00E-09	4.48E-09	1.48E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4068	760945.15	4070527.32	7.71E-08	6.61E-08	2.68E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.06E-10	0.00E+00	2.23E-08	5.96E-09	4.45E-09	1.47E-10	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4069	760936.6	4070505.28	7.66E-08	6.57E-08	2.66E-09	0.00E+00	1.45E-07	1.17E-08	1.01E-08	4.03E-10	0.00E+00	2.22E-08	5.92E-09	4.42E-09	1.46E-10	0.00						

4157	760716.69	4070194.25	4.81E-08	4.12E-08	1.67E-09	0.00E+00	9.09E-08	7.32E-09	6.35E-09	2.53E-10	0.00E+00	1.39E-08	3.71E-09	2.77E-09	9.16E-11	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4158	760708.33	4070172.67	4.67E-08	4.00E-08	1.62E-09	0.00E+00	8.83E-08	7.11E-09	6.17E-09	2.45E-10	0.00E+00	1.35E-08	3.61E-09	2.69E-09	8.89E-11	0.00E+00	6.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4159	761846.3	4071368.84	1.15E-08	9.82E-09	3.98E-10	0.00E+00	2.17E-08	1.75E-09	1.51E-09	6.03E-11	0.00E+00	3.32E-09	8.85E-10	6.61E-10	2.18E-11	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4160	761694.22	4070193.81	6.19E-07	5.30E-07	2.15E-08	0.00E+00	1.17E-06	9.43E-08	8.18E-08	3.25E-09	0.00E+00	1.79E-07	4.78E-08	3.57E-08	1.18E-09	0.00E+00	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4161	761644.09	4070214.92	4.76E-07	4.08E-07	1.65E-08	0.00E+00	9.01E-07	7.25E-08	6.29E-08	2.50E-09	0.00E+00	1.38E-07	3.68E-08	2.75E-08	9.08E-10	0.00E+00	6.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4162	761594.09	4070214.61	3.72E-07	3.19E-07	1.29E-08	0.00E+00	7.04E-07	5.67E-08	4.92E-08	1.96E-09	0.00E+00	1.08E-07	2.88E-08	2.15E-08	7.09E-10	0.00E+00	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4163	761544.23	4070192.89	2.87E-07	2.46E-07	9.95E-09	0.00E+00	5.43E-07	4.37E-08	3.79E-08	1.51E-09	0.00E+00	8.31E-08	2.22E-08	1.65E-08	5.47E-10	0.00E+00	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4164	761494.1	4070213.99	2.42E-07	2.07E-07	8.40E-09	0.00E+00	4.58E-07	3.69E-08	3.20E-08	1.27E-09	0.00E+00	7.01E-08	1.78E-08	1.40E-08	4.61E-10	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4165	761444.1	4070213.68	2.01E-07	1.73E-07	6.99E-09	0.00E+00	3.81E-07	3.07E-08	2.66E-08	1.06E-09	0.00E+00	5.84E-08	1.56E-08	1.16E-08	3.84E-10	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4166	761394.1	4070213.38	1.71E-07	1.47E-07	5.93E-09	0.00E+00	3.23E-07	2.60E-08	2.26E-08	8.99E-10	0.00E+00	4.95E-08	1.32E-08	9.86E-09	3.26E-10	0.00E+00	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4167	761294.1	4070212.76	1.29E-07	1.11E-07	4.48E-09	0.00E+00	2.44E-07	1.97E-08	1.71E-08	6.79E-10	0.00E+00	3.74E-08	9.98E-09	7.45E-09	2.46E-10	0.00E+00	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4168	761293.84	4070255.58	1.35E-07	1.16E-07	4.69E-09	0.00E+00	2.55E-07	2.06E-08	1.78E-08	7.10E-10	0.00E+00	3.91E-08	1.04E-08	7.79E-09	2.57E-10	0.00E+00	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4169	761194.1	4070212.14	1.03E-07	8.80E-08	3.56E-09	0.00E+00	1.94E-07	1.56E-08	1.36E-08	5.40E-10	0.00E+00	2.98E-08	7.93E-09	5.92E-09	1.96E-10	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4170	761193.84	4070254.97	1.08E-07	9.25E-08	3.74E-09	0.00E+00	2.04E-07	1.64E-08	1.43E-08	5.67E-10	0.00E+00	3.13E-08	8.34E-09	6.22E-09	2.06E-10	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4171	761094.1	4070211.53																				

[illegible]



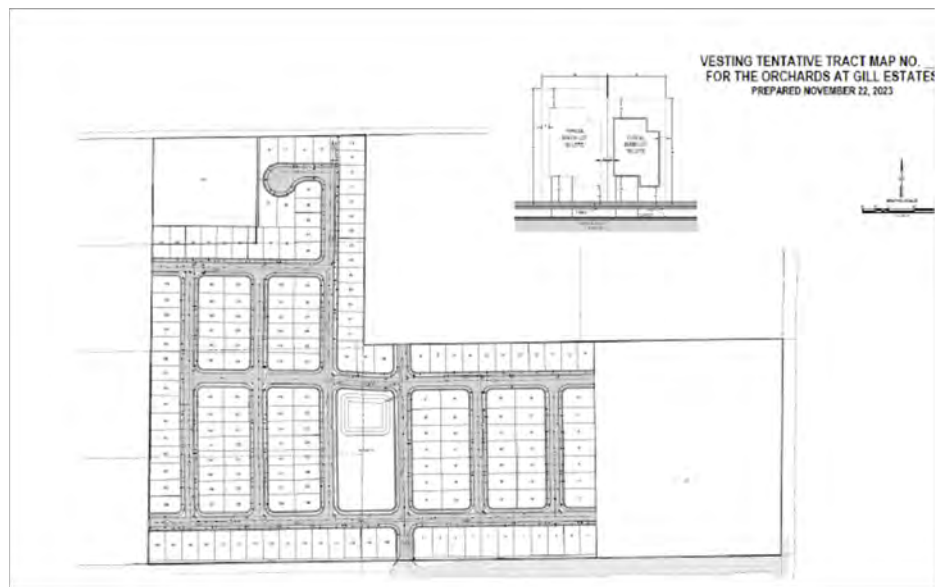
7.2 Appendix B: Biological Resource Assessment

Prepared by Argonaut Ecological Consulting, Inc., dated April 10, 2024.

BIOLOGICAL RESOURCE ASSESSMENT

The Orchards at Gill Estates City of Kerman, Fresno County

Tentative Subdivision Map 2023-03;
Rezone/Prezone REZ 2023-03; and
General Plan Amendment GPA 2023-02



Prepared for:



Prepared by:



April 10, 2024

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1.0 EXECUTIVE SUMMARY AND INTRODUCTION

EXECUTIVE SUMMARY

Argonaut Ecological, Inc. conducted a biological assessment of a 40-acre parcel at located on the south side of West Nielson Avenue, between North Madera Avenue and North Del Norte Avenue (See Figure 1). The assessment included evaluating the types of habitats present and sensitive species associated with those habitats. The biological evaluation focused on mapping existing habitat types based on a site walk and a review of public and commercial databases, aerial photographs (current and historical), and other published information and available data.

The Study Area has been used as an orchard for several decades. There is one homesite within the Study Area. The Study Area has limited value to wildlife because of the historic land use. There is no suitable habitat for special-status species, but San Joaquin kit fox could periodically frequent the Study Area.

1.1 INTRODUCTION

Argonaut conducted a biological resource assessment of the approximately 40-acre proposed tentative subdivision map (TSM 2023-03 and Rezone/Prezone (REZ 2023-03, General Plan Amendment (GPA 2023-02. TSM 2023-03 would facilitate the subdivision of the Project site into 180 single-family lots (6.46 dwelling units per acre) on 27.85 acres of the site that range in size from 3,690 square feet to 6,729 square feet, in addition to four (4) out lots. Outlots A and B are proposed along the south of the subdivision for landscaping purposes. Outlot C, 66,926 sf., is proposed in the center of the subdivision as a stormwater basin and open space. Outlot D, 2,194 sf., is proposed as a 25-foot wide trail/open space. The Project also proposes an internal network of local streets and sidewalks with one (1) point of ingress/egress to the northern property (APN 020-120-11), two (2) point of ingress/egress to the west, and one (1) point of ingress/egress to the south of the Project site. Currently, a road is being built along the southern boundary of the site that will provide access to the south ingress/egress to Madera Avenue. The 2.39-acre remainder on the northwest corner of the Project site with an existing single-family residence will remain as existing. The east portion of APN 020-120-06, approximately 8.9 acres, is a remainder lot with no development proposed.



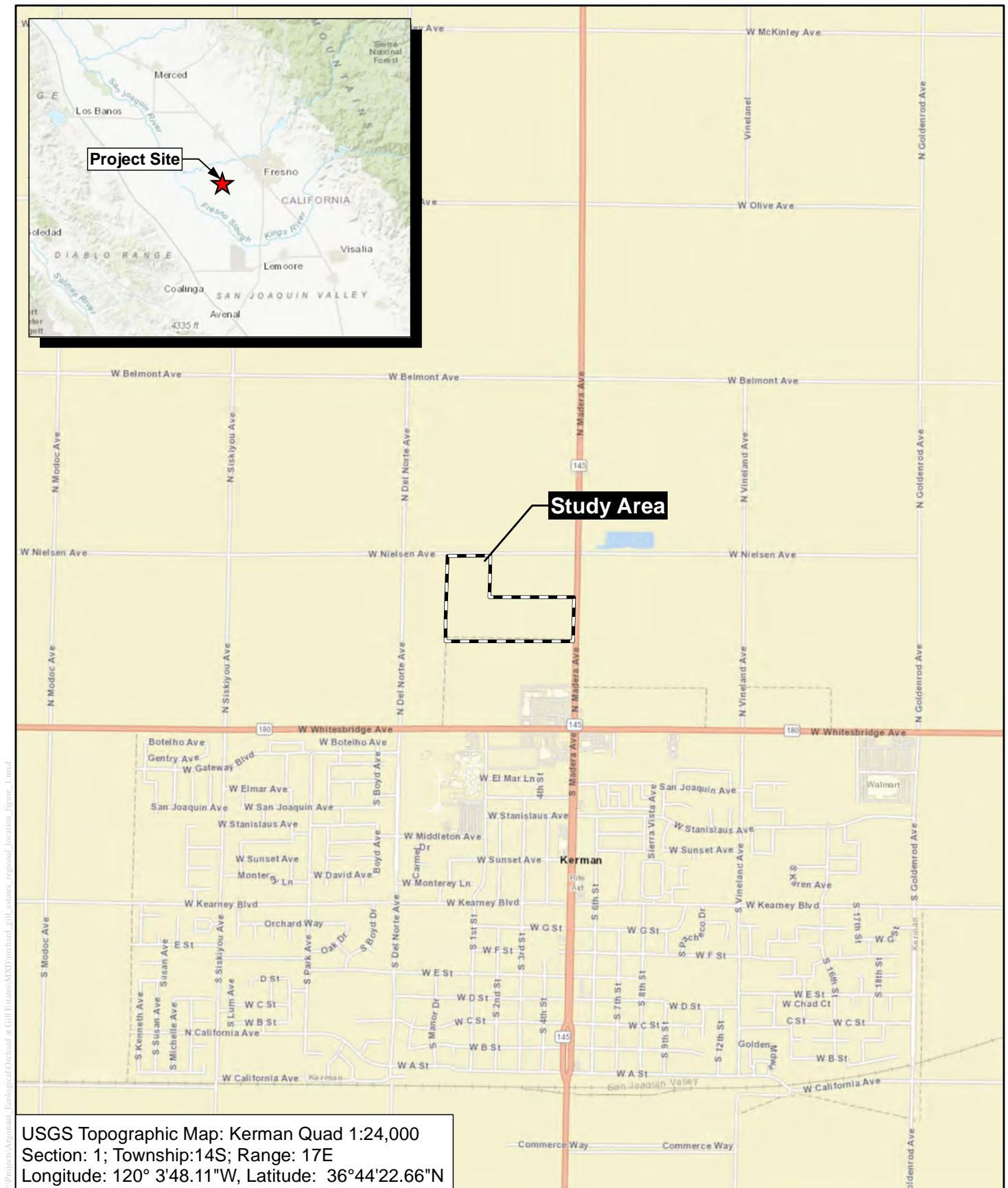


Figure 1

REGIONAL LOCATION AND VICINITY

ORCHARD AT GILL ESTATES

City of Kerman, Fresno County, CA

1.2 STUDY OBJECTIVES

This report describes the biological resources present within and adjacent to the Study Area, describes the area's biological characteristics, and evaluates the Study Area's likelihood to support sensitive biological resources (such as wetlands, creeks/drainages, and special status species). This evaluation relied on available literature, aerial photography, historic topographic and aerial maps, and a site visit. For this study, wetland habitat includes those areas possibly considered "Waters of the U.S." by the U.S. Army Corps of Engineers (Army Corps) or Waters of the State of California. Section 1.2.1 describes wetlands as a subset of "Waters of the U.S." under the Federal Clean Water Act (CWA).

This report also evaluates the potential impacts of site development on protected habitat, species protected by the Federal Endangered Species Act (ESA), or those protected under the California Environmental Quality Act (CEQA) or California Endangered Species Act. This biological assessment provides the baseline conditions within the Study Area that will allow for evaluation and determination of the potential impacts associated with IID's proposed site development.

1.3 REGULATORY JURISDICTION AND BACKGROUND

Several agencies share regulatory jurisdiction over biological resources. The following is a brief description of the primary jurisdiction of each agency.

Wetland Protection

U.S. Army Corps of Engineers

Wetlands are a type of water in the U.S. The U.S. Army Corps of Engineers (Army Corps) and the U.S. Environmental Protection Agency (EPA) regulate the placement of fill into the Waters of the U.S. under Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbor Act. For this purpose, "Waters of the U.S." is legally defined under Section 404 of the Federal CWA and includes interstate streams, creeks, and adjacent wetlands. The Army Corps defines wetlands as "*those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions*" (Environmental Laboratory 1987). In California, seasonally inundated areas that meet the criteria of all three wetland parameters (soils, hydrology, and vegetation), as defined in the recently issued Wetland Delineation Manual for the Arid West (USACE 2006), are also considered jurisdictional wetlands.

Since 2001, several U.S. Supreme Court rulings regarding the regulation of isolated, intrastate Waters by the Army Corps have limited the scope of federal jurisdiction under the CWA and excluded many California wetlands from federal regulation.

In December 2019, the U.S. EPA and the U.S. Army published the final rule to repeal the 2015 Clean Water Rule. The "Clean Water Rule" clarified what constitutes Waters of the U.S., presumably more precisely defined, and made permitting more predictable, thus less costly, and more straightforward.

After several challenges to the "Clean Water Rule," the U.S. EPA and the Department of the Army proposed the pre-2015 (pre-Obama-era rules) definition "of Waters of the United States," updated to reflect



consideration of Supreme Court decisions. The new rule went into effect on May 23, 2023; however, on May 25, 2023, the U.S. Supreme Court issued a decision in the case of *Sackett v. Environmental Protection Agency* that rolled back the definition of Waters of the U.S. to better align with the original definition as included in the *Rapanos* decision. The new definition limits “Waters” as “limited geographic[al] features that are described in ordinary parlance as ‘streams, oceans, rivers, and lakes’ and to ‘adjacent wetlands that are ‘indistinguishable’ from those bodies of water due to a continuous surface connection.” The Court set aside the prior use of a “significant nexus.”

Waters typically do not include prior converted cropland (those areas converted before December 23, 1985). Notwithstanding the classification of a wetland as a prior converted cropland by any federal agency for the CWA, the final authority to determine jurisdiction remains with the U.S. EPA

California State Water Resources Control Board

Since 1993, California has had a Wetlands Conservation Policy (a.k.a. Executive Order W-51 59- 93). It is commonly called the *No Net Loss policy* for wetlands, establishing a state mandate for developing and adopting a policy framework and strategy to protect the State’s wetland ecosystems. The policy was to be implemented voluntarily and was expressly not to be implemented on a “project-by-project” basis (See EO W-59-93, Section III).

In 2020, California adopted the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State. The State definition of wetland differs from the Federal definition in that the state definition may include areas with no vegetation, assuming the other criteria are present. Wetlands of the State include 1) natural wetlands, 2) wetlands created by modification of Waters of the State (at any point in history), and 3) artificial wetlands that meet specific criteria. The State definition only exempts a few types of Waters. Water features excluded from the State’s definition include industrial or municipal wastewater, certain stormwater treatment facilities, agricultural crop irrigation, industrial processing or cooling, and fields flooded for rice growing.

Listed Protected Species and Habitat Protection

U.S. Fish and Wildlife Service

The U.S. Fish and Wildlife Service (USFWS) implements the Migratory Bird Treaty Act (16 USC Section 703-711), Bald and Golden Eagle Protection Act (16 United States Code [USC] Section 668), and Federal Endangered Species Act (FESA; 16 USC § 153 *et seq.*).

The **Migratory Bird Treaty Act (MBTA)** was first enacted in 1918 to protect migratory birds between the United States and Great Britain (acting on behalf of Canada). The MBTA makes it illegal for anyone to take, possess, import, transport, purchase, barter, offer for sale, or purchase any migratory birds, nests, or eggs unless a federal agency has issued a permit. The USFWS has statutory authority and responsibility for enforcing the MBTA. This act was revised in 2004 to include all species native to the U.S. or its territories due to natural biological or ecological processes (70 FR 12710, March 15, 2005). The MBTA does not include nonnative species whose occurrences in the U.S. result solely from intentional or unintentional human introduction. The USFWS maintains a list of bird species that are not protected under the MBTA.

In January 2021, the USFWS published a new rule in the Federal Register. Under the rule change, the



unintentional killing of migratory birds does not violate the MBTA. Only the intentional “pursuing, hunting, taking, capturing, killing, or attempting to do the same ... directed at migratory birds, their nests, or their eggs” would be illegal under the changes.

The **Federal Endangered Species Act (FESA)** prohibits “take” “of any federally listed wildlife species (the destruction of federally listed plants on private property is not prohibited and does not require a permit). “Take” under the federal definition means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in any such conduct. “Incidental take” is harm or death that may occur during the implementation of an otherwise lawful activity. “Candidate Species” have the full protection of FESA. However, the USFWS advises project applicants that it is prudent to address these species since they could be elevated to “listed status” before the completion of projects with long planning or development schedules.

The Projects that would result in "take" "of any federally listed threatened or endangered species can obtain authorization from the USFWS through either Section 7 (interagency consultation) or Section 10(a) (incidental take permit) of FESA. The authorization process determines if a project would jeopardize a ‘listed species’ continued existence and what mitigation measures would be required to avoid jeopardizing the species.

An Incidental Take Permit (ITP) or Take Permit is required when an activity would either kill, harm, harass, or interrupt a listed species’ breeding or nesting. The FESA definition of “harm” is somewhat less definitive since it includes ubiquitous activities. In 1999, the USFWS clarified the term “harm” as it applies to the ESA in the Federal Register. As stated, the final rule defined the term “harm” “to include any act that causes actual harm (kills or injures fish or wildlife) and emphasizes that such actions may have significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.

California Department of Fish and Wildlife

The California Department of Fish and Wildlife (CDFW) is a Trustee Agency responsible under the California Environmental Quality Act (CEQA) for reviewing and evaluating project impacts on plant and wildlife resources. Under the Fish and Game Code Section 1802, the CDFW has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitats necessary for biologically sustainable populations. The California Fish and Game Code also provides authority for the CDFW to regulate projects that could result in the “take” of any species listed by the State as threatened or endangered (Section 2081). CDFW also has authority over all state streams, as described below.

Perennial and intermittent streams also fall under the jurisdiction of CDFW according to Sections 1601-1603 of the Fish and Game Code (Streambed Alteration Agreements). CDFW’s jurisdictional extent includes work within the stream zone, including the diversion or obstruction of the natural flow or changes in the channel, bed, or bank of any river, stream, or lake. Before issuing a 1601 or 1603 Streambed Alteration Agreement, the CDFW must demonstrate compliance with CEQA. In most cases, CDFW relies on the CEQA review performed by the local lead agency. However, in cases where no CEQA review was required for the Project, CDFW would act as the lead agency under CEQA.

The CDFW also has the authority to protect state-listed species issues under Section 2081 Incidental Take Permit if a project has the potential to negatively affect state-protected plant or animal species or their



habitats, either directly or indirectly. Protected species include those “listed” by the State as endangered or threatened. Besides listed species, other species protection categories include “fully protected” and California Species of Special Concern (CSC). Adverse impacts to species that are “fully protected” are prohibited.

Under the California Fish & Game Code (FGC Section 3503), “it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird....” Birds of prey (falcons, hawks, owls, and eagles) get extra protection under the law (FGC Section 3503.5).

As with USFWS, CDFW does not have the authority to require a landowner to apply for an ITP authorizing take. Instead, the landowner is legally obligated to avoid taking state-listed species if it does not seek an ITP. CDFW (and USFWS) can initiate an enforcement action if they believe that an illegal take has occurred or will occur.

California Endangered Species Act

The California Endangered Species Act (CESA) protects candidate plants and animal species and those listed under CESA as rare, threatened, or endangered. CESA prohibits the taking of any such species unless authorized. Section 2081 authorizes the State to issue ITPs. The state definition of taking applies only to acts that result in death or adverse impacts on protected species. The CESA mirrors the federal regulation as it relates to “take”; however, there is no State equivalent definition of “harm” or “harass.” Incidental take is also not defined by the CESA statute or regulation. Unlike FESA, CESA does qualify that incidental take “is not prohibited if it is the result of an act that occurs on a farm or ranch during an otherwise lawful routine and ongoing agricultural activity.” Where disagreement occurs (and in some cases, this has been the subject of court cases) is in the common understanding of “routine and ongoing agricultural activity.”

California Environmental Quality Act

The CEQA Guidelines require a review of projects to determine their environmental effects and identify mitigation measures to reduce impacts to a less than significant level. The Guidelines state that an effect may be significant if it affects rare and endangered species. Section 15380 of the Guidelines defines *rare* to include listed species and allows agencies to consider rare species other than those designated as State or Federal threatened or endangered but that meet the standards for rare under the Federal or State endangered species acts. On this basis, plants designated as rare by non-regulatory organizations (e.g., California Native Plant Society), species of special concern defined by CDFW, candidate species defined by USFWS, and other designations must be considered in CEQA analyses.

Land Use Entitlements

City of Kerman

The Project site is within the City of Kerman Sphere of Influence (SOI) but outside city limits and would require an annexation from the County of Fresno and a pre-zone/rezone to a zone district consistent with the Kerman General Plan. The City is responsible for all local land-use decisions within its jurisdiction and is considered a responsible agency under CEQA for this project.



2.0 RESOURCES CONSULTED AND METHODS

The following section describes the methods used to assess the Study Area and includes data review and evaluation, field studies, and aerial photograph interpretations.

2.1 DATA AND LITERATURE REVIEW

Documents and sources of information used to prepare this evaluation include the following:

- Aerial photography (Google Earth®, Bing®, and historic aerials).
- California Department of Fish and Wildlife, California Natural Diversity Database (CNDDB/RareFind – Recent version with updates)
- EcoAtlas 2023.
- U.S. Department of Agriculture, Natural Resources Conservation Service, Soil Survey of Fresno County (Soils mapper).
- U.S. Fish and Wildlife Service, National Wetland Inventory Map.
- U.S. Fish and Wildlife Service, Information Planning and Consultation (IPaC).
- U.S. Geological Survey, Historical Topographic Map, Kerman Quadrangle, 1924, University of Texas, Austin, Perry-Castañeda Map Collection

Before conducting a site review, the California Natural Diversity Database/RareFind (CNDDB) and the USFWS IPaC were consulted to determine the protected species (or species of concern) potentially present within the Study Area. The CNDDB includes records of reported observations for special status plant and animal species and is queried based on a search radius of United States Geological Survey (USGS) quadrangle maps. The IPaC includes those species which have federal listing status.

2.2 AERIAL PHOTOGRAPHY AND WETLAND MAPPING

Aerial photographs of the Study Area from the 1990s were reviewed to identify site features and determine land-use changes over time. No significant changes in land use have occurred outside the construction of a large residential home in the northwest corner of the Study Area, sometime between 2006 and 2009. Wetland mapping and aerial photographs were also reviewed to determine if the Study Area recently or historically supported wetlands.

2.3 FIELD INVESTIGATION

The Study Area (See Figure 2) was walked on March 21, 2024. The surveyor was Kathy Kinsland, a Senior Biologist with over 35 years of field experience. Soils, vegetation, and drainage patterns within the Study Area were inspected to determine the habitat present and suitability for species of concern. Walking transects were used to provide full coverage.





J:\Projects\Agriculture_Ecological\Orchard at Gill Estates\MXD\Orchard at Gill Estates_study_area_figure_2.mxd



0 150 300
Feet



Study Area



Figure 2

STUDY AREA/AERIAL ORCHARD AT GILL ESTATES

City of Kerman, Fresno County, CA

3.0 RESULTS, CONCLUSIONS, AND RECOMMENDATIONS(S)

Section 3.1, below, describes the physical features (i.e., land use, soils, vegetation, hydrology, etc.) and the study area's biological features. The physical components and land use strongly influence the types of plants and animals present. This section also describes the habitats present and the specific biological resources observed during the site review.

Section 3.2 presents conclusions, and Section 3.3 contains recommended avoidance and minimization measures to avoid potential impacts.

The following is not an exhaustive inventory of plants and animals present. Instead, the discussion provides sufficient information to characterize the habitat and habitat components present on site. The field survey identified the biological resources present. The biological evaluation discusses the habitat present and the potential for that habitat to support any species considered unique, sensitive, or protected by current law. The conclusion section (3.2) summarizes the results of the data review, fieldwork, and evaluation of biological resources and potential impacts. The conclusion sections also include recommendations for measures to minimize any potential impacts.

3.1 PHYSICAL RESOURCES

Climate

The Study Area climate is typical of the central San Joaquin Valley, with long, hot, dry summers and cool, mild winters. In the winter, rainfall averages approximately 9.99 inches per year, falling mainly between November and April (Western Regional Climate Center, 2004). During 2021 total rainfall, the Fresno region had a total of 8.22 inches; in 2022, there was a total of 5.43 inches. Since the fall of 2022, the regional rainfall totaled 21 inches (through May 2023) near Fresno.

Topography, Drainage, and Soils

The Study Area is located within the Central Valley, at approximately 220 above sea level. Site drainage appears to be to the northwest. The nearest stream is the San Joaquin River, roughly six miles north and northwest of the Study Area. There are four soil types within the Study Area: Hanford sandy loam, silty substratum (75% of the Study Area), Tujunga loam sandy, 0 to 3 percent slopes (13.5%), Hanford coarse sandy loam (7.5 %), and Hesperia sandy loam, deep (4.2%).

Land Use

The Study Area has been used for several decades as agricultural land (row crops) and orchards (aerial photographs show the area in crop production since before 1985). A large residential home is located at the northwest corner (constructed in the mid-2000s). There is also a farm equipment area and some structures on the study area's eastern half. Similar land uses surround the Study Area. However, immediately south of the Study Area, the parcel appears to have been recently converted to another use, based on a recent aerial photograph (2023). The use appears to be either agricultural warehouse or commercial. The land conversion immediately south of the Study Area occurred between 2021 and 2022.



Habitat and Aquatic Resources

There are several California habitat classification systems. Most classification systems describe natural communities without established developed or agricultural habitat classifications. CALVEG is a USDA Forest Service classification system that provides a comprehensive spatial dataset of existing vegetation covering California. The data were created using a combination of automated systematic procedures, remote sensing classification, photo editing, and field-based observations.

There are several California habitat classification systems. Most classification systems describe natural communities without established developed or agricultural habitat classifications. CALVEG is a USDA Forest Service product providing a comprehensive spatial dataset of existing vegetation cover over California. The data were created using a combination of automated systematic procedures, remote sensing classification, photo editing, and field-based observations. Analyses are based “on a crosswalk of the CALVEG classifications to the California Wildlife Habitat Relationships (CWHR).”

Calveg lists the site as an “agricultural/nonnative/ruderal” habitat. Attachment A shows photographs of the Study Area.

The Study Area is orchards except for the large home site in the northwest corner and the equipment laydown area on the eastern parcel. It appears the orchards were planted in 2016. Interspersed within the orchards are forbs such as Johnson grass (*Sorghum halepense*), bromes (e.g., *Hordeum murinum*, bromes), and other weedy grasses.

No ground squirrels were observed. Several bird species (mourning dove, crows, etc.) were observed onsite. There is one potential suitable nest tree (mature tree) but no raptor nest.

Historically (starting in 2023), there is a portion of a man-made irrigation channel that appears to have begun at a set of wells immediately north of the Study Area (See Figure 3, right). This ditch is an isolated ditch (not a tributary to a waters) terminated northeast near the intersection of N. Colorado Avenue and W. Belmont Avenue (roughly $\frac{3}{4}$ of a mile). No portion of this ditch is within the Study Area or along the roadway of N. Madera Avenue. It appears a portion of the ditch has been reestablished along W. Nielson Avenue, east of N. Madera Avenue.

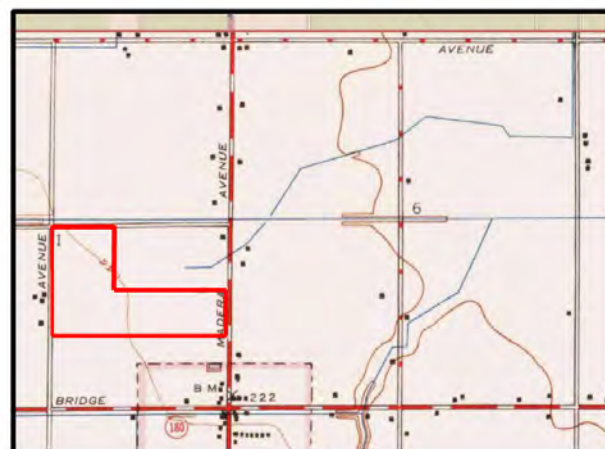


Figure 3
1942 Topographic Map

No wetland features exist within the Study Area. Figure 4 shows the query of the National Wetland Inventory Mapping. The accuracy of the mapping was confirmed in the field. The excavated ditch north of the Study Area boundary is identified as RSUBFx: "Riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded, excavated." In common parlance, this refers to an excavated channel/ditch. No evidence of this feature was found during the field review, and it appears it has been removed.



No wetlands or drainage (streams, ditches, etc.) within or adjacent to the Study Area.

Special Status Species

A query of the California Natural Diversity Database (CNDDDB) and the USFWS IPaC was performed to determine which special status species could be present within the Study Area. No critical habitat exists for any species within or near the Study Area. The CNDDDB Bios mapping is shown in Figure 5. This map shows the location of known records of special-status species near the Study Area. Table 1 includes a summary of the CNDDDB query result, listing status, and the potential impacts and potential for occurrence within the Study Area.

Only two Federally listed wildlife species are known to occur in the area: San Joaquin kit (*Vulpes macrotis mutica*) and Fresno kangaroo rat (*Dipodomys nitratooides exillis*). There are no known records of these species within or near the Study Area, and suitable habitat for these species is absent (See Table 1). The Study Area was inspected for evidence of a potential kit fox denning habitat (ground burrows or old pipes), and none was found. Since the Study Area is under agricultural production, the site is periodically subject to activity (discing, vehicle movement, trimming, harvesting, etc.), and the likelihood of San Joaquin kit fox residing within the site (or using it for hunting) is likely low. However, the kit fox could occasionally frequent the site if prey is available so that it could be encountered within the Study Area. The Study Area does not support suitable habitat for Fresno kangaroo rats.

There is no suitable habitat for special-status plant species within the Study Area.



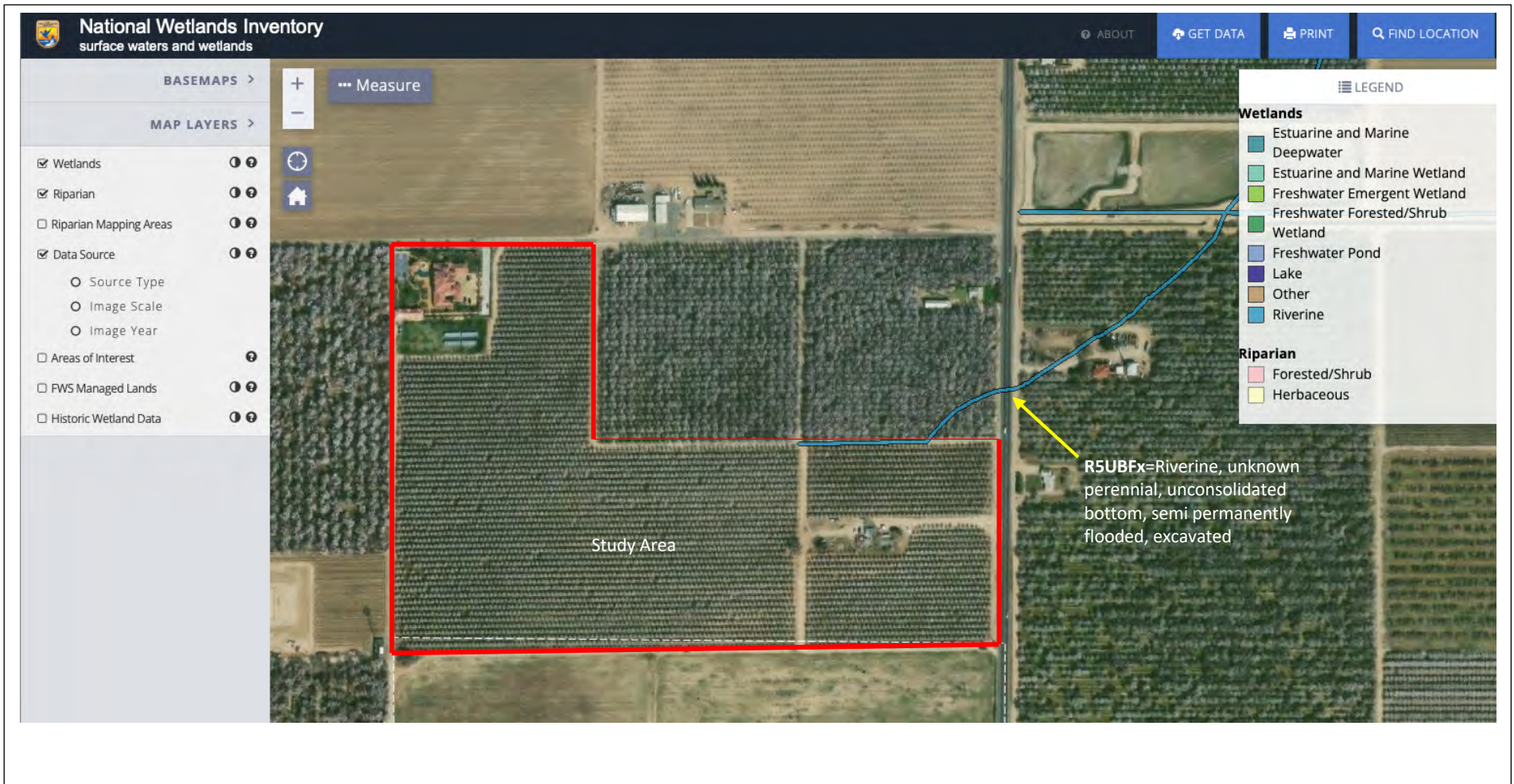


Figure 4

National Wetland Inventory (NWIS) Mapping

Project: The Orchards at Gill Estates, Kerman, CA

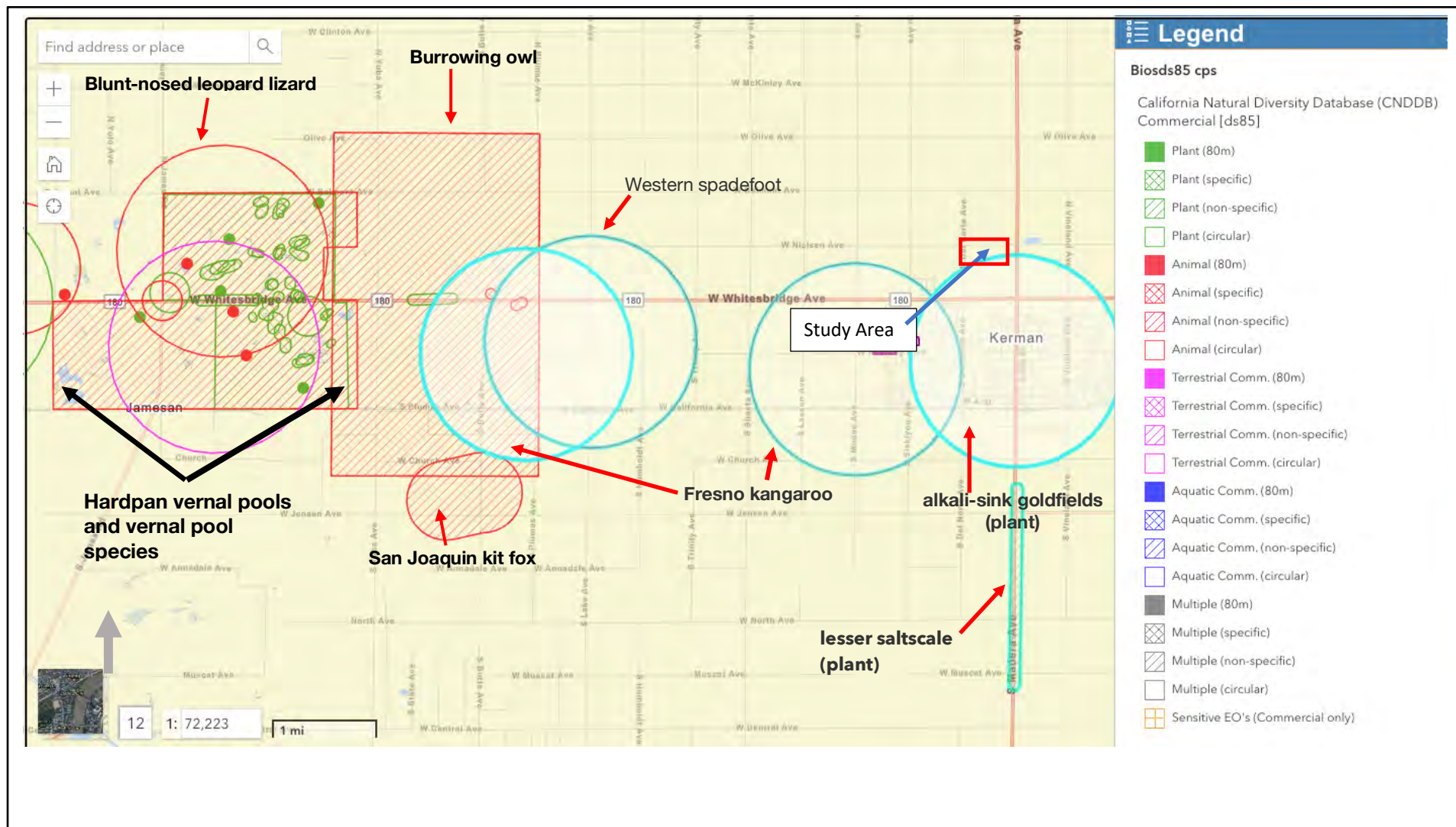


Figure 5

CNDDDB Bios Map

Table 1
Summary of Special Status Species, Potential Occurrence, and Impact

<i>Common Name</i>	<i>Scientific Name</i>	<i>Stat</i>	<i>Effects²</i>	<i>Occurrence in the Study Area³</i>
Birds				
Burrowing owl	<i>Athene cunicularia</i>	SSC	NE	Absent. Occupies grasslands and some disturbed sites but needs ground burrowing mammal burrows for nesting. Ground burrows are not present.
Mammals				
Fresno kangaroo rat	<i>Dipodomys nitratoide exilis</i>	FE/--	NE	Absent. Grassland and alkali desert scrub habitat. Suitable habitat is not present.
San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	FE/CT	ME	Likely Absent. No denning habitat within or near the Study Area. It could occasionally forage in the area if the species is in the area.
Amphibians, Reptiles, and Invertebrates				
Western spadefoot	<i>Spea hammondi</i>	--/--	NE	Absent. Requires seasonal wetlands for breeding and no suitable habitat on or near the Study Area.
Plants				
Heartscale	<i>Atriplex cordulata</i> var. <i>cordulata</i>	--/--	NE	Absent: Occurs in seasonal wetlands and grasslands. Species not encountered during a survey and suitable habitat not present.
Lesser salt scale	<i>Atriplex minuscula</i>	--/--	NE	Absent. Occurs in alkali sink and shadescale scrub, and sometimes grasslands. Suitable habitat not present.
Palmate-bracted bird's-beak	<i>Chloropyron palmatum</i>	--/--	NE	Absent. Occurs in seasonal wetlands and shadescale scrub. Suitable habitat not present.
Madera leptosiphon	<i>Leptosiphon serulatus</i>	FE/CE	NE	Absent. Occurs in yellow pine forests and foothill woodlands. Suitable habitat not present.
Recurved larkspur	<i>Delphinium recurvatum</i>	--/--	NE	Absent. Occurs in shadescale scrub, foothill woodlands, and Valley grasslands. No suitable habitat present within the Study Area.
Hoover's eriastrum	<i>Eriastrum hooveri</i>	DL/--	NE	Absent. Found in sparsely vegetated but grassy open areas. No individuals were found during the survey, and no suitable habitat was present.
California alkali grass	<i>Puccinellia simplex</i>	--/--	NE	Absent. Typically found in wetlands within grasslands. Suitable habitat not present within the Study Area.
Alkali-sink goldfields	<i>Lasthenia chrysantha</i>	--/--	NE	Absent. Occurs in seasonal wetlands and other ephemeral wetlands.



1 Status= Listing of special status species, unless otherwise indicated

CE: California listed as Endangered

CT: California listed as Threatened

SSC: California Species of Special Concern

FE: Federally listed as Endangered

FT: Federally listed as Threatened

DL: Delisted

1B.1, 1B.2, 2B.2, 2B.3: California Native Plant

Society Ranking

Source: CNDDDB = California Natural Diversity Database provided by CDFG and U.S. Fish and Wildlife Service, Information for Planning and Consultation. (IPaC). Accessed online between March 3, 2023.

2 Effects = Effect determination

NE: No Effect

ME: May Effect, not likely to adversely affect

3 Definition of Occurrence Indicators: Present/Potentially: Species recorded in the area and some habitat elements in the Study Area similar to known occurrences. **Absent/Likely Absent:** Species not recorded in Study Area and/or suitable or critical habitat components are not present.



3.2 CONCLUSIONS

CONCLUSIONS

- The Study Area has been in agricultural (orchard) production for numerous decades. The only developed portion of the Study Area is an existing home parcel in the northwest corner.
- The habitat is limited as a result of the intensive agricultural use. The habitat is limited to orchards and ruderal habitats (weedy species along the rows). There is a single large mature tree, but there are no raptor nests in the tree.
- There are no aquatic resources (jurisdictional or otherwise) within the Study Area or adjacent to the Study Area.
- The Study Area does not support any habitat for special-status species.

RECOMMENDATIONS

Implement the following measures to minimize any impact on San Joaquin kit fox in the unlikely event an individual is present within the Study Area at any time during construction. These measures are standard measures recommended by the U.S. Fish and Wildlife Service (2011), as summarized below:

Prior to Construction:

1. Prepare and conduct an employee education program prior to the start of construction that includes information on the biology of San Joaquin kit fox (SJKF) and the legal protections afforded to the species under the Endangered Species Act. A fact sheet conveying this information can be prepared for distribution to the previously referenced people and anyone else who may enter the project site.

Avoidance and Minimization Measures During Construction: The following measures should be included within the worker education program and in any project specification and contract.

1. Project-related vehicles should observe a daytime speed limit of 20 mph throughout the site in all project areas, except on county roads and State and Federal highways; this is particularly important at night when SJKF are most active. No nighttime construction should occur, given the species is primarily nocturnal.
2. To prevent accidental entrapment of SJKF or other animals during construction, all excavated, steep-walled holes or trenches more than 2 feet deep should be covered at the close of each working day with plywood or similar materials. If the trenches cannot be closed, one or more escape ramps constructed of earthen fill or wooden planks shall be installed. Before filling holes or trenches, they should be thoroughly inspected for trapped animals. If at any time a trapped or injured SJKF is discovered, the United States Fish & Wildlife



Service (USFWS) and the California Department of Fish and Game (CDFG) shall be contacted as noted under measure 13 referenced below.

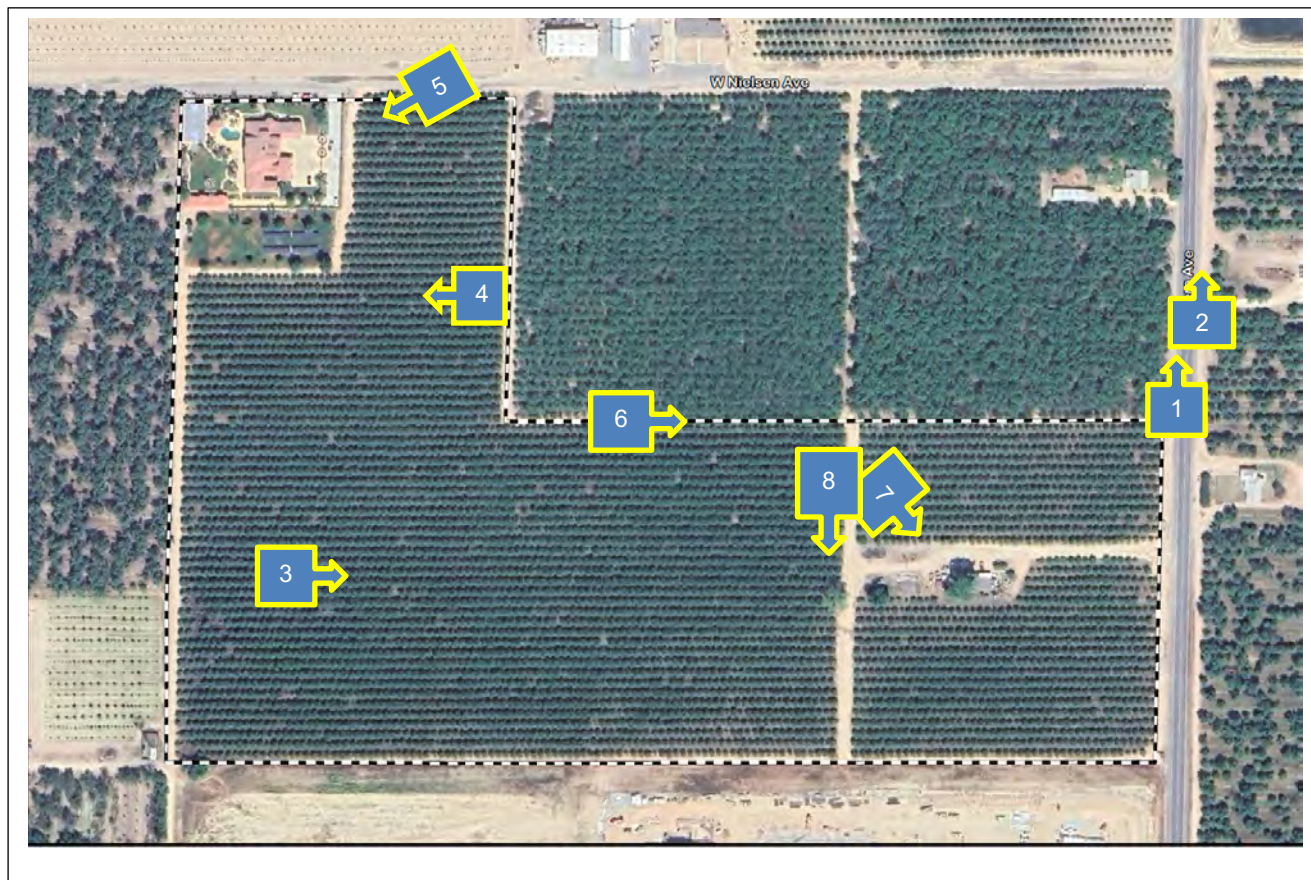
3. KJKF are attracted to den-like structures such as pipes and may enter stored pipes and become trapped or injured. All construction pipes, culverts, or similar structures with a diameter of 4 inches or greater that are stored at a construction site for one or more overnight periods should be thoroughly inspected for kit foxes before the pipe is subsequently buried, capped, or otherwise used or moved in any way. If a SJKF is discovered inside a pipe, that section of pipe should not be moved until the USFWS has been consulted. If necessary, and under the direct supervision of the biologist, the pipe may be moved only once to remove it from the path of construction activity until the SJKF has escaped.
4. All food-related trash items such as wrappers, cans, bottles, and food scraps should be disposed of in securely closed containers and removed at least once a week from a construction or project site.
5. No firearms shall be allowed on the project site.
6. No pets, such as dogs or cats, should be permitted on the project site to prevent harassment, mortality of SJKF, or destruction of dens.
7. The use of rodenticides and herbicides in project areas should be restricted. This is necessary to prevent primary or secondary poisoning of SJKF and the depletion of prey populations on which they depend. All uses of such compounds should observe labels and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Food and Agriculture, and other State and Federal legislation, as well as additional project-related restrictions deemed necessary by the USFWS. If rodent control must be conducted, zinc phosphide should be used because of a lower risk to kit fox.
8. Any contractor or employee responsible for inadvertently killing or injuring a San Joaquin kit fox shall immediately report the incident to their representative. This representative shall contact the CDFW immediately in the case of a dead, injured, or entrapped kit fox.
9. The Sacramento Fish and Wildlife Office and CDFW shall be notified in writing within three working days of the accidental death or injury to a San Joaquin kit fox during project-related activities. Notification must include the date, time, location of the incident, the finding of a dead or injured animal, and any other pertinent information.
10. New sightings of kit fox shall be reported to the California Natural Diversity Database (CNDDDB). A copy of the reporting form and a topographic map marked with the location of where the SJKF was observed should also be provided to the USFWS at the address below.



References

- California Natural Diversity Database (CNDDDB) Online. Subscription with updates. Available at: URL <https://www.wildlife.ca.gov/Data/CNDDDB>
- California Wetlands Monitoring Workgroup (CWMW). EcoAtlas. Accessed [March 2024]. <https://www.ecoatlas.org>.
- California Wildlife Habitat Relationships System California Department of Fish and Wildlife California Interagency Wildlife Task Group: Western Mastiff Bat, Life History Account.
- California Wildlife Habitat Relationship (CWHR) Predicted Habitat Suitability Model. <https://www.arcgis.com/apps/mapviewer/index.html>
- National Resource Conservation Service (NRCS), Web Soils Survey. Available at: URL <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
- U.S. Fish and Wildlife Service. Information for Planning and Consultation (IPaC). Available at URL: <https://ipac.ecosphere.fws.gov>
- U.S. Fish and Wildlife Service, National Wetland Inventory Maps. Available at URL: <https://www.fws.gov/wetlands/data/mapper.html>
- U.S. Geologic Survey, Historic topographic Map, Kerman. 1943, University of Texas, Austin, Perry-Castañeda Map Collection. Available at: <https://legacy.lib.utexas.edu/maps/>





Photograph Key

Study Area

The Orchards at Gill Estates, Kerman, California





Photographic Documentation

Photographs: March 21, 2024

Project: The Orchards at Gill Estates, Kerman, CA



Photograph 1

View along N. Madera Avenue,
looking north, of the eastern edge of
the Study Area.



Photograph 2

View of Study Area, along N. Madera
Avenue, showing orchards.



Photographs: March 21, 2024

Project: The Orchards at Gill Estates, Kerman, CA



Photograph 3

View of orchards, within the Study Area.



Photograph 4

View of orchard showing vegetation within rows.



Photographs: March 21, 2024

Project: The Orchards at Gill Estates, Kerman, CA



Photograph 5

View looking southwest of large home in the NW corner of the Study Area.



Photograph 6

View of the main farm road within the Study Area



Photographic Documentation

Photographs: March 21, 2024

Project: The Orchards at Gill Estates, Kerman, CA



Photograph 7

Same of the equipment laydown area within the Study Area



Photograph 8

View of the only large, potentially suitable nest tree for raptors. No raptor nest is within the tree.



7.3 Appendix C: CHRIS Search Results

Prepared by Southern San Joaquin Valley Information Center dated March 4, 2024.



To: Shin Tu
Precision Civil Engineering
1234 O Street
Fresno, CA 93721

Record Search 24-085

Date: March 4, 2024

Re: The Orchards at Gill Estates

County: Fresno

Map(s): Kerman 7.5'

CULTURAL RESOURCES RECORDS SEARCH

The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

The following are the results of a search of the cultural resource files at the Southern San Joaquin Valley Information Center. These files include known and recorded cultural resources sites, inventory and excavation reports filed with this office, and resources listed on the National Register of Historic Places, the OHP Built Environment Resources Directory, California State Historical Landmarks, California Register of Historical Resources, California Inventory of Historic Resources, and California Points of Historical Interest. Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the OHP are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area.

PRIOR CULTURAL RESOURCE STUDIES CONDUCTED WITHIN THE PROJECT AREA AND THE ONE-HALF MILE RADIUS

According to the information in our files, there has been one previous cultural resource study completed within the project area: FR-02501. There have been ten additional cultural resource studies completed within the one-half mile radius: FR-00245, 00246, 00247, 00663, 02414, 02505, 02506, 02582, 02754, and 03140.

KNOWN/RECORDED CULTURAL RESOURCES WITHIN THE PROJECT AREA AND THE ONE-HALF MILE RADIUS

According to the information in our files, there are no recorded resources within the project area, and it is not known if any exist there. There is one recorded resource within the one-half mile radius, P-10-007097, the Houghton Canal.

There are no recorded cultural resources within the project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, for the California State Historic Landmarks.

COMMENTS AND RECOMMENDATIONS

We understand this project consists of annexation of two parcels from Fresno County to the City of Kerman. We also understand this project will involve rezoning of these parcels and the development of 179 single-family lots. Further, we understand this project area is currently used for agricultural purposes. Please note that farming does not constitute previous development, as it does not destroy cultural resources, but merely moves them around within the plow zone. The cultural resources study conducted on this property did not include any field survey. Because a cultural resource survey has not been conducted on this project site, it is unknown if cultural resources are present. Therefore, prior to any ground disturbing activities, we recommend the project area be surveyed by a qualified, professional archaeologist. A list of qualified consultants can be found at www.chrisinfo.org.

We also recommend that you contact the Native American Heritage Commission in Sacramento. They will provide you with a current list of Native American individuals/organizations that can assist you with information regarding cultural resources that may not be included in the CHRIS Inventory and that may be of concern to the Native groups in the area. The Commission can consult their "Sacred Lands Inventory" file to determine what sacred resources, if any, exist within this project area and the way in which these resources might be managed. Finally, please consult with the lead agency on this project to determine if any other cultural resource investigation is required. If you need any additional information or have any questions or concerns, please contact our office at (661) 654-2289.

By:



Celeste M. Thomson, Coordinator

Date: March 4, 2024

Please note that invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.



7.4 Appendix D: NAHC Letter

Prepared by Native American Heritage Commission dated February 28, 2024.

**NATIVE AMERICAN HERITAGE COMMISSION**

February 28, 2024

Shin Tu
Precision Civil EngineeringVia Email to: stu@precisioneng.netCHAIRPERSON
Reginald Pagaling
ChumashVICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki,
NomlakiSECRETARY
Sara Dutschke
MiwokPARLIAMENTARIAN
Wayne Nelson
LuiseñoCOMMISSIONER
Isaac Bojorquez
Ohlone-CostanoanCOMMISSIONER
Stanley Rodriguez
KumeyaayCOMMISSIONER
Laurena Bolden
SerranoCOMMISSIONER
Reid Milanovich
CahuillaCOMMISSIONER
VacantEXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan**NAHC HEADQUARTERS**
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov**Re: Native American Consultation, Pursuant to Senate Bill 18 (SB18), Government Codes §65352.3 and §65352.4, as well as Assembly Bill 52 (AB52), Public Resources Codes §21080.1, §21080.3.1 and §21080.3.2, The Orchards at Gill Estates Project, Fresno County**

Dear Mr. Tu:

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties or projects.

Government Codes §65352.3 and §65352.4 require local governments to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to cultural places when creating or amending General Plans, Specific Plans and Community Plans.

Public Resources Codes §21080.3.1 and §21080.3.2 requires public agencies to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding, protecting, and/or mitigating impacts to tribal cultural resources as defined, for California Environmental Quality Act (CEQA) projects.

The law does not preclude local governments and agencies from initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction. The NAHC believes that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

Best practice for the AB52 process and in accordance with Public Resources Code §21080.3.1(d), is to do the following:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The NAHC also recommends, but does not require that lead agencies include in their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential affect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:
 - A listing of any and all known cultural resources have already been recorded on or adjacent to the APE, such as known archaeological sites;
 - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
 - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the APE; and
 - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
2. The results of any archaeological inventory survey that was conducted, including:
 - Any report that may contain site forms, site significance, and suggested mitigation measures.

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 in accordance with Government Code Section 6254.10.
3. The result of the Sacred Lands File (SFL) check conducted through the Native American Heritage Commission was negative.
4. Any ethnographic studies conducted for any area including all or part of the potential APE; and
5. Any geotechnical reports regarding all or part of the potential APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS is not exhaustive, and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event, that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment



7.5 Appendix E: Noise Assessment

Prepared by WJV Acoustics, Inc., on February 18, 2025.

ACOUSTICAL ANALYSIS

**THE ORCHARD AT GILL ESTATES
KERMAN, CALIFORNIA**

WJVA Project No. 24-14

PREPARED FOR

**PRECISION ENGINEERING
1234 O STREET
FRESNO, CALIFORNIA 93721**

PREPARED BY

**WJV ACOUSTICS, INC.
VISALIA, CALIFORNIA**



wjv acoustics

FEBRUARY 18, 2025

INTRODUCTION

Lifetime Communities (Applicant proposes Annexation (ANX 2023-03)), Rezone/Prezone (REZ 2023-03), General Plan Amendment (GPA 2023-02), Tentative Parcel Map (TPM 2024-01), and Tentative Subdivision Map (TSM 2023-03) pertaining to two (2) parcels (APNs 020-120-06 and 020-120-03S) that total approximately 39.13 acres located on the south side of West Nielsen Avenue between North Madera Avenue and North Del Norte Avenue. The Project site is within the City of Kerman Sphere of Influence (SOI) but outside city limits and would require an annexation from the County of Fresno and a pre-zone/rezone to a zone district consistent with the Kerman General Plan.

The Project site has a Kerman General Plan land use designation of Medium Density Residential (12 dwelling units per acre) and General Commercial (10 acres on the east portion of APN 020-120-06) and is within the AL20 – Limited Agricultural (Fresno County, 10 acres on the north portion of APN 020-120-03S) and AE-20 – Exclusive Agricultural (Fresno County) zoning districts.

- ANX 2023-03 would annex two (2) parcels (APN 020-120-06 and 020-120-03S) from the County of Fresno to the City of Kerman.
- REZ 2023-03 would pre-zone two (2) parcels (APN 020-120-06 and 020-120-03S) to Smart Development (SD)-Residential (R)-3.5 (3,500 SF. Min. Lot), Residential (R)-1, and MU – Mixed Use, which is consistent with the proposed land use designation.
- GPA 2023-02 would change a portion of 020-120-06 (8.74 acres) from the General Commercial land use designation to the Mixed-Use land use designation.
- TPM 2024-01 would split the Project site into two (2) parcels and one (1) remainder, including a 28.35-acre “Parcel 1” that would accommodate TSM 2023-03, an 8.74-acre “Parcel 2” on the east portion of APN 020-120-06 with no development proposed at this time, and a 2.04-acre “Remainder” on the northwest corner with an existing single-family residence.
- TSM 2023-03 would subdivide Parcel 1 of TPM 2024-01 (28.35 acres) into 172 single-family lots (6.1 dwelling units per acre) that range in size from 3,690 square feet to 5,914 square feet, in addition to five (5) outlots. Outlot A (6,862 sf.) and Outlot B (5,040 sf.) are proposed along the south of the subdivision for public landscaping purposes. Outlot C (66,926 sf.) is proposed in the center of the subdivision as a park. Outlot D (2,280 sf.) is proposed along Nielsen Avenue for public landscaping purposes. Outlot E (34,217 sf.) is proposed on the northeast corner of the site as a stormwater basin. The Project also proposes an internal network of local streets and sidewalks with one (1) point of ingress/egress to Nielsen Avenue, one (1) point of ingress/egress to the northern property (APN 020-120-11), two (2) points of ingress/egress to the west, two (2) points of ingress/egress to Parcel 2, and one (1) point of ingress/egress to the south of the Project

site. Currently, a road is being built along the southern boundary of the site that will provide access of the south ingress/egress to Madera Avenue.

Appendix A provides a description of the acoustical terminology used in this report. Unless otherwise stated, all sound levels reported are in A-weighted decibels (dB). A-weighting de-emphasizes the very low and very high frequencies of sound in a manner similar to the human ear. Most community noise standards utilize A-weighting, as it provides a high degree of correlation with human annoyance and health effects. Appendix B provides typical A-weighted sound levels for common noise sources.

NOISE EXPOSURE CRITERIA

General Plan-

The City of Kerman 2040 General Plan (adopted July 2020) sets noise compatibility standards for transportation noise sources in terms of the Day-Night Average Level (L_{dn}). Implementing Policy PH-8.2 of the Public Health and Safety Element establishes a land use compatibility criterion as 60 dB L_{dn} for exterior noise exposure within outdoor activity areas of residential land uses. Outdoor activity areas generally include backyards of single-family residences, individual patios or decks of multi-family developments and common outdoor recreation areas of multi-family developments. The intent of the exterior noise level requirement is to provide an acceptable noise environment for outdoor activities and recreation.

Additionally, Implementing Policy PH-8.2 of the Public Health and Safety Element requires that interior noise levels attributable to exterior transportation noise sources not exceed 45 dB L_{dn} . The intent of the interior noise level standard is to provide an acceptable noise environment for indoor communication and sleep.

The City of Kerman General Plan also provides exterior noise level standards for non-transportation (stationary) noise sources. The standards become more restrictive during the nighttime hours (10:00 p.m. to 7:00 a.m.). The stationary noise level standards are established in terms of the hourly average equivalent noise level (L_{eq}) and the maximum hourly noise level (L_{max}). Table I provides the applicable City of Kerman exterior noise level standards for stationary noise sources.

TABLE I NON-TRANSPORTATION NOISE LEVEL STANDARDS, dBA CITY OF KERMAN GENERAL PLAN			
Daytime (7 a.m.-10 p.m.)		Nighttime (10 p.m.-7 a.m.)	
L_{eq}	L_{max}	L_{eq}	L_{max}
50	70	45	65
Source: City of Kerman General Plan			

Construction Noise and Vibration -

Section 9.26 (Prohibition of Unreasonably Loud and Unnecessary Noise) of The City of Kerman Code of Ordinances prohibits construction activities outside of the hours of 7:00 a.m. to 10:00 p.m.

There are no City of Kerman vibration level standards. Some guidance is provided by the Caltrans Transportation and Construction Vibration Guidance Manual. The Manual provides guidance for

determining annoyance potential criteria and damage potential threshold criteria. These criteria are provided below in Table III and Table IV, and are presented in terms of peak particle velocity (PPV) in inches per second (in/sec).

TABLE II		
GUIDELINE VIBRATION ANNOYANCE POTENTIAL CRITERIA		
Human Response	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Barely Perceptible	0.04	0.01
Distinctly Perceptible	0.25	0.04
Strongly Perceptible	0.9	0.1
Severe	2.0	0.4
Source: Caltrans		

TABLE III		
GUIDELINE VIBRATION DAMAGE POTENTIAL THRESHOLD CRITERIA		
Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile, historic buildings, ancient monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5
Source: Caltrans		

PROJECT SITE NOISE EXPOSURE

The project site is located south of W. Nielsen Avenue and east of N. Madera Avenue (SR 145). The project site would be exposed to traffic noise associated with vehicles on these two roadways. Additional sources of noise in the project vicinity include agricultural activities and occasional aircraft overflights.

Background Noise Level Measurements

Measurements of existing ambient noise levels in the project vicinity were conducted on May 21 & 22, 2024. Long-term (24-hour) ambient noise level measurements were conducted at two (2) locations (sites LT-1 and LT-2). Ambient noise levels were measured for a period of 24 continuous hours at each of the two locations. Site LT-1 was located along the northern project boundary, along the south side of W. Nielsen Avenue, near an existing single-family residence and agricultural activities. Site LT-1 was predominantly exposed to noise sources associated with nearby agricultural activities as well as vehicle traffic along W. Nielsen Avenue. Site LT-2 was located along the eastern project boundary, along the west side of N. Madera Avenue. Site LT-2 was predominantly exposed to noise associated with nearby agricultural activities as well as vehicle traffic along N. Madera Avenue. Both ambient noise measurement sites were also exposed to periodic aircraft overflights. The locations of the 24-hour ambient noise monitoring sites are provided on Figure 2.

Noise monitoring equipment consisted of Larson-Davis Laboratories Model LDL-820 sound level analyzers equipped with B&K Type 4176 1/2" microphones. The equipment complies with the specifications of the American National Standards Institute (ANSI) for Type I (Precision) sound level meters. The meters were calibrated with a B&K Type 4230 acoustic calibrator to ensure the accuracy of the measurements.

Measured hourly energy average noise levels (L_{eq}) at site LT-1 ranged from a low of 43.6 dB between 1:00 a.m. and 2:00 a.m. to a high of 57.9 dBA between 11:00 a.m. and noon. Hourly maximum (L_{max}) noise levels at site LT-1 ranged from 68.3 to 85.7 dBA. Residual noise levels at the monitoring site, as defined by the L_{90} , ranged from 40.1 to 47.4 dBA. The L_{90} is a statistical descriptor that defines the noise level exceeded 90% of the time during each hour of the sample period. The L_{90} is generally considered to represent the residual (or background) noise level in the absence of identifiable single noise events from traffic, aircraft, and other local noise sources. The measured L_{dn} value at site LT-1 was 58.0 dB L_{dn} . Figure 3 graphically depicts hourly variations in ambient noise levels at site LT-1. Figure 4 provides a photograph of measurement site LT-1.

Measured hourly energy average noise levels (L_{eq}) at site LT-2 ranged from a low of 45.6 dB between 1:00 a.m. and 2:00 a.m. to a high of 58.4 dBA between 3:00 p.m. and 4:00 p.m. Hourly maximum (L_{max}) noise levels at site LT-2 ranged from 78.0 to 88.9 dBA. Residual noise levels at the monitoring site, as defined by the L_{90} , ranged from 33.8 to 50.5 dBA. The measured L_{dn} value at site LT-2 was 60.5 dB L_{dn} . Figure 5 graphically depicts hourly variations in ambient noise levels at site LT-2. Figure 6 provides a photograph of measurement site LT-2.

Additionally, short-term (15-minute) ambient noise level measurements were conducted at four (4) locations (Sites ST-1 through ST-4). Two (2) individual measurements were taken at each of the four short-term sites to quantify ambient noise levels in the morning and afternoon hours. The locations of the short-term noise monitoring sites are provided on Figure 2.

Short-term noise measurements were conducted for 15-minute periods at each of the four sites. Site ST-1 was located at the northeast corner of the project site boundary. Site ST-2 was located at near the northeast corner of the project site boundary, in the vicinity of an existing single-family residence. Site ST-3 was located at the southwest corner of the project site boundary. Site ST-4 was located at the south of the project site boundary. All four short-term ambient noise measurement sites were exposed to noise associated with nearby agricultural activities as well as occasional aircraft overflights. Additionally, site ST-1 was exposed to vehicle traffic noise.

Table IV summarizes short-term noise measurement results. The noise measurement data included energy average (L_{eq}) maximum (L_{max}) as well as five (5) individual statistical parameters. Observations were made of the dominant noise sources affecting the measurements. The statistical parameters describe the percent of time a noise level was exceeded during the measurement period. For instance, the L_{90} describes the noise level exceeded 90 percent of the time during the measurement period, and is generally considered to represent the residual (or background) noise level in the absence of identifiable single noise events from traffic, aircraft, and other local noise sources.

<p>TABLE IV</p> <p>SUMMARY OF SHORT-TERM NOISE MEASUREMENT DATA</p> <p>THE ORCHARD AT GILL ESTATES, KERMAN</p> <p>MAY 21 & 22, 2024</p>									
Site	Time	A-Weighted Decibels, dBA							Sources
		L_{eq}	L_{max}	L_2	L_8	L_{25}	L_{50}	L_{90}	
ST-1	7:50 a.m.	69.4	83.7	76.4	73.1	68.6	64.3	53.7	TR, AG
ST-1	4:00 p.m.	70.8	84.5	77.0	74.2	69.0	63.2	54.1	TR, AC
ST-2	8:10 a.m.	54.9	71.2	62.0	54.0	46.2	45.8	42.6	TR, AG, B, D
ST-2	4:25 p.m.	51.0	70.9	59.2	51.4	45.9	44.8	43.0	TR, AG, D
ST-3	8:35 a.m.	53.6	71.2	58.7	52.8	49.1	45.4	43.6	TR, AG, AC
ST-3	4:50 p.m.	52.8	74.4	57.0	53.3	47.0	45.5	42.9	TR, AG
ST-4	8:55 a.m.	56.1	74.0	56.6	53.0	50.8	48.6	45.2	TR, AG, AC
ST-4	5:10 p.m.	54.7	68.6	52.1	50.8	48.4	46.0	43.3	TR,
<p>TR: Traffic AC: Aircraft AG: Agricultural Activities C: Construction Activities B: Birds D: Barking Dogs V:Voices L: Landscaping Activities</p> <p>Source: WJV Acoustics, Inc.</p>									

Traffic Noise Exposure

Project site noise exposure from traffic on adjacent roadways was calculated for existing and future (2046) traffic conditions using the FHWA Traffic Noise Model and traffic data obtained from the project traffic engineer, JLB Traffic Engineering, Inc. A description of the noise model, applied data, methodology and findings are provided below.

WJVA utilized the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-108). The FHWA Model is a standard analytical method used for roadway traffic noise calculations. The model is based upon reference energy emission levels for automobiles, medium trucks (2 axles) and heavy trucks (3 or more axles), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The FHWA Model was developed to predict hourly L_{eq} values for free-flowing traffic conditions, and is generally considered to be accurate within ± 1.5 dB. To predict L_{dn} values, it is necessary to determine the hourly distribution of traffic for a typical day and adjust the traffic volume input data to yield an equivalent hourly traffic volume.

Annual Average Daily Traffic (AADT) data for W. Nielsen Avenue, N. Madera Avenue, as well as Harvest Elem Road (new roadway alignment to be constructed as part of the project) in the project vicinity was obtained from the project traffic study. Truck percentages for N. Madera Avenue (SR 145) was obtained from Caltrans. Truck percentages for W. Nielsen Avenue and the future alignment of Harvest Elem Road, and the day/night distribution of traffic were estimated by WJVA, based upon previous studies conducted in the project vicinity since project-specific data were not available from government sources. A speed limit of 45 mph was assumed for N. Madera Avenue and 35 mph was assumed for W. Nielsen Avenue and Harvest Elem Road. Table V summarizes annual average traffic data used to model noise exposure within the project site.

TABLE V					
TRAFFIC NOISE MODELING ASSUMPTIONS THE ORCHARD AT GILL ESTATES, KERMAN					
	N. Madera Ave		W. Nielsen Ave		Harvest Elem Rd
	Existing	2046	Existing	2046	2046
Annual Avenue Daily Traffic (AADT)	8,800	8,950	70	140	3,300
Day/Night Split (%)	90/10				
Assumed Vehicle Speed (mph)	45		35		
% Medium Trucks (% AADT)	2				
% Heavy Trucks (% AADT)	1				
Sources: JLB Traffic Engineering, Inc. WJV Acoustics, Inc.					

The City of Kerman General Plan Noise Element establishes an exterior noise level standard of 60 dB L_{dn} for outdoor activity areas of residential uses. Outdoor activity areas generally include backyards of single-family residences and individual patios or decks and common outdoor activity

areas of multi-family developments. The noise element also requires that interior noise levels attributable to exterior noise sources not exceed 45 dB L_{dn}.

The proposed project includes sensitive receptors (residential land uses) that could be impacted by traffic noise exposure adjacent to W. Nielsen Avenue and N. Del Norte Avenue, as well as the future alignment of Harvest Elem Road. WJVA used the above-described FHWA traffic noise model and traffic noise modeling assumptions to determine the distances from the center of each roadway to the 60 dB L_{dn} noise exposure contours. Table VI provides the distances from the center of N. Madera Avenue and W. Nielsen Avenue, as well as the future alignment of Harvest Elem Road, to the 60 dB L_{dn} noise exposure contours. Table VI provides the contour distances for 2046 Plus Project conditions as they represent a worst-case assessment of noise exposure at proposed sensitive receptor locations.

<p>TABLE VI</p> <p>DISTANCES TO TRAFFIC NOISE CONTOURS</p> <p>THE ORCHARD AT GILL ESTATES, KERMAN</p> <p>CUMULATIVE 2046 CONDITIONS</p>	
Roadway Segment (At Project Site Frontage)	Distance (feet) From Roadway Centerline to 60 dB L _{dn} Contour
N. Madera Avenue (SR 145)	121
W. Nielsen Avenue	5
Harvest Elem Road	42
<p>Source: WJV Acoustics, Inc.</p> <p>JLB Traffic Engineering, Inc.</p>	

Potential Impact:

A noise impact would occur if the outdoor activity areas of proposed residential land uses are located within the 60 dB L_{dn} traffic noise contours. The precise locations of proposed residential land uses were not known at the time this analysis was prepared. If the outdoor activity areas (backyards of single-family residential land uses and outdoor common use areas and individual patios and balconies of multi-family residential land uses) are proposed within these setback distances, mitigation measures must be incorporated into project design.

Mitigation Measures:

Noise levels from transportation noise sources may be effectively mitigated by incorporating noise mitigation measures into the project design that consider the geographical relationship between the noise sources of concern and potential receptors, the noise-producing characteristics of the sources and the path of transmission between noise sources and sensitive receptors. Options for noise mitigation include the use of building setbacks and the construction of sound walls.

A sound wall insertion loss program based on the FHWA Model was used to calculate the insertion loss (noise reduction) provided by the proposed sound walls. The model calculates the insertion loss of a wall of given height based on the effective height of the noise source, height of the receiver, distance from the receiver to the wall, and distance from the noise source to the wall. The standard assumptions used in the sound wall calculations are effective source heights of 8, 2 and 0 feet above the roadway for heavy trucks, medium trucks, and automobiles, respectively. The standard height of a residential receiver is five (5) feet above the ground elevation.

Based upon the above-described assumptions and method of analysis and assumed locations of the closest possible residential land uses to these roadways, it was determined that a sound wall, constructed to a minimum height of 6 feet above project site grade, would reduce traffic noise exposure by approximately 5-6 dB. **If sensitive receptors (residential land uses) are proposed within the setback distances described above in Table VI, the construction of a 6-foot sound wall would provide sufficient attenuation of noise to comply with City of Kerman exterior noise level standards.**

Interior Noise Exposure

The City of Kerman interior noise level standard is 45 dB L_{dn} . The exact locations of residential land uses were not known at the time this analysis was prepared. As such, a specific analysis of interior noise levels was not performed. However, it may be assumed that residential construction methods complying with current building code requirements will reduce exterior noise levels by approximately 25 dB if windows and doors are closed. This means that as long as exterior noise exposure levels do not exceed 70 dB L_{dn} ($70-45=25$), interior noise levels would not be expected to exceed 45 dB L_{dn} .

Based upon calculations performed by WJVA, residential land uses would have to be located within 25 feet of the N. Madera Avenue centerline, for exterior noise levels to exceed 70 dB L_{dn} . Based upon typical roadway setback distances for residential land uses, it is not anticipated that interior noise levels would exceed 45 dB L_{dn} at any residential land uses located within the project area.

PROJECT NOISE IMPACTS TO OFF-SITE SENSITIVE RECEPTORS

Project-Related Increases In Traffic Noise Exposure

WJVA utilized the FHWA Traffic Noise Model to quantify expected project-related increases in traffic noise exposure along roadways in the project vicinity. The FHWA Model is a standard analytical method used by state and local agencies for roadway traffic noise prediction. The model is based upon reference energy emission levels for automobiles, medium trucks (2 axles) and heavy trucks (3 or more axles), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The FHWA Model was developed to predict hourly L_{eq} values for free-flowing traffic conditions, and is generally considered to be accurate within ± 1.5 dB. To predict L_{dn} values, it is necessary to determine the hourly distribution of traffic for a typical day and adjust the traffic volume input data to yield an equivalent hourly traffic volume.

Traffic noise exposure levels for Existing, Existing Plus Project, 2046 Cumulative and 2046 Cumulative Plus Project traffic conditions were calculated based upon the FHWA Model and traffic volumes provided by the project traffic engineer, JLB Traffic Engineering, Inc. The day/night distribution of traffic and the percentages of trucks used for modeling were estimated based upon previous studies WJVA has conducted along similar roadways as such data was not available from governmental sources. The Noise modeling assumptions used to calculate project traffic noise are provided as Appendix C.

Project-related significant impacts would occur if an increase in traffic noise associated with the project would result in noise levels exceeding the City's applicable noise level standards at the location(s) of sensitive receptors. For the purpose of this analysis a significant impact is also assumed to occur if traffic noise levels were to increase by 3 dB at sensitive receptor locations where noise levels already exceed the City's applicable noise level standards (without the project), as 3 dB generally represents the threshold of perception in change for the human ear. This analysis of project traffic noise focuses on residential land uses, as they represent the most restrictive noise level criteria by land use type provided in the General Plan.

The City's exterior noise level standard for residential land uses is 60 dB L_{dn} . Traffic noise was modeled at ten (10) receptor locations. The ten modeled receptors are located at roadway setback distances representative of the sensitive receptors (residences) along each analyzed roadway segment. The modeled traffic noise receptors are described below and provided graphically as Figure 7.

- R-1: Residence located approximately 170 feet from the centerline of Del Norte Ave
- R-2: Residence located approximately 130 feet from the centerline of Nielsen Ave.
- R-3: Residence located approximately 160 feet from the centerline of Madera Ave
- R-4: Residence located approximately 80 feet from the centerline of Whitesbridge Ave.
- R-5: Residence located approximately 150 feet from the centerline of Siskiyou Ave.
- R-6: Residence located approximately 90 feet from the centerline of Whitesbridge Ave.

- R-7: Residence located approximately 100 feet from the centerline of Del Norte Ave.
- R-8: Residence located approximately 90 feet from the centerline of First Ave.
- R-9: Residence located approximately 150 feet from the centerline of Vineland Ave.
- R-10: Residence located approximately 80 feet from the centerline of Vineland Ave.

Existing Conditions

Table V provides Existing and Existing Plus Project traffic noise exposure levels at the ten analyzed receptor locations. Noise levels described in Table V do not include any acoustic shielding that may be provided by existing buildings, fences, or walls, and therefore represents a worst-case assessment of traffic noise exposure levels.

<p>TABLE V</p> <p>PROJECT-RELATED INCREASES IN TRAFFIC NOISE, dB, L_{dn}</p> <p>THE ORCHARD AT GILL ESTATES, KERMAN</p> <p>EXISTING CONDITIONS</p>				
Modeled Receptor	Existing	Existing Plus Project	Change (Maximum)	Significant Impact?
R-1	44	44	0	No
R-2	39	42	+3	No
R-3	60	60	0	No
R-4	63	64	+1	No
R-5	52	52	0	No
R-6	63	64	+1	No
R-7	55	55	0	No
R-8	54	54	0	No
R-9	45	45	0	No
R-10	55	55	0	No

Source: WJV Acoustics, Inc.
JLB Traffic Engineering, Inc.

Reference to Table V indicates that project-related traffic for Existing conditions would not result in noise levels at any sensitive receptors to exceed the City's noise level standard, nor result in an increase of 3 dB in any sensitive receptor locations where noise levels already exceed the City's noise level standard without the implementation of the project.

It is important to note that project buildout would likely occur over several years, and as such project-related noise increases would not be realized for numerous years. While the exact land uses and buildout timelines are uncertain, the increases described in Table V would not occur immediately.

2046 Cumulative Conditions

Table VI provides 2046 Cumulative traffic noise exposure levels at the ten analyzed representative receptor locations, and provides what the project contribution would be to 2046 Cumulative conditions. Noise levels described in Table VI do not include any acoustic shielding that may be provided by existing buildings, fences, or walls, and therefore represents a worst-case assessment of traffic noise exposure levels.

TABLE VI PROJECT-RELATED INCREASES IN TRAFFIC NOISE, dB, L _{dn} THE ORCHARD AT GILL ESTATES, KERMAN 2046 CUMULATIVE CONDITIONS				
Modeled Receptor	2046	2046 Plus Project	Change (Maximum)	Significant Impact?
R-1	47	47	0	No
R-2	45	45	0	No
R-3	61	61	0	No
R-4	67	67	0	No
R-5	55	55	0	No
R-6	67	67	0	No
R-7	56	56	0	No
R-8	55	55	0	No
R-9	46	46	0	No
R-10	57	57	0	No

Source: WJV Acoustics, Inc.
JLB Traffic Engineering, Inc.

Reference to Table VI indicates that project-related traffic for 2046 Cumulative conditions would not result in noise levels at any sensitive receptors to exceed the City's noise level standard, nor result in an increase of 3 dB in any sensitive receptor locations where noise levels already exceed the City's noise level standard without the implementation of the project.

Mixed-Use Noise Levels

The project would include an approximately 8.74-acre parcel of a mixed-used land use to be located within the eastern portion of the overall project site (as shown on Figure 1). The exact uses and tenants of the mixed-use component were not known at the time this analysis was prepared. Mixed-Use zoning allows for both residential and commercial uses, implementing the mixed-use land use designation in the general plan.

Without more specific information regarding specific commercial uses, it is not possible to precisely determine noise levels and potential impacts on both existing and proposed sensitive

receptors near the mixed-use/commercial land uses. Typical examples of stationary noise sources associated with such mixed-use/commercial/retail land uses include:

- HVAC/Mechanical equipment
- Truck deliveries
- Parking lot activities (closing of car doors and trunks, stereos, alarms etc.)
- Loading docks
- Compactors

HVAC Mechanical Equipment

It is assumed that the project would include roof-mounted HVAC units on commercial buildings. The heating, ventilating, and air conditioning (HVAC) requirements for the buildings would likely require the use of multiple packaged roof-top units. For the purpose of noise and aesthetics, roof-mounted HVAC units are typically shielded by means of a roof parapet. WJVA has conducted reference noise level measurements at numerous commercial and retail buildings with roof-mounted HVAC units, and associated noise levels typically range between approximately 45-50 dB at a distance of 50 feet from the building façade.

Truck Movements

At the time of this analysis, truck delivery times and frequency as well as truck access route (or routes) had not been designated for potential uses. WJVA has conducted measurements of the noise levels produced by slowly moving trucks for a number of studies. Such truck movements would be expected to produce noise levels in the range of 65 to 71 dBA at a distance of 100 feet. The range in measured truck noise levels is due to differences in the size of trucks, their speed of movement and whether they have refrigeration units in operation during the pass-by.

Parking Lot Activities

Noise due to traffic in parking lots is typically limited by low speeds and is not usually considered to be significant. Human activity in parking lots that can produce noise includes voices, stereo systems and the opening and closing of car doors and trunk lids. Such activities can occur at any time. The noise levels associated with these activities cannot be precisely defined due to variables such as the number of parking movements, time of day and other factors. It is typical for a passing car in a parking lot to produce a maximum noise level of 60-65 dBA at a distance of 50 feet, which is comparable to the level of a raised voice.

Loading Dock Activities

It was not known at the time this analysis was prepared if the commercial component of the project would include any loading docks. Noise sources typically associated with loading dock activities include truck engines, the operation of truck-mounted refrigeration units, fork lifts, the banging of hand carts and roll-up doors, noise from P.A. systems, and the voices of truck drivers and store employees. Truck engines and/or refrigeration units are typically turned off while trucks are in loading dock areas to reduce noise and save energy.

Based upon noise level measurements conducted by WJVA for other studies, loading dock noise levels would be expected to be in the range of approximately 59 to 77 dB at a distance of 100 feet.

Compactor

Commercial/Retail uses could include outdoor refuse and cardboard compactors. Based upon noise studies conducted by WJVA for other projects, the maximum noise level produced by a typical un-enclosed trash compactor (Hydra-Fab Model 1200) is approximately 74 dB at a distance of 10 feet from the equipment.

Potential Impact:

Noise levels from new stationary noise sources cannot be predicted with any certainty at this time since specific uses have not yet been proposed and the locations of stationary noise sources relative to the locations of noise sensitive uses are not known. However, under some circumstances there is a potential for such uses to exceed the City's noise standards for stationary noise sources at the locations of sensitive receptors.

Mitigation Measures:

Noise levels from new stationary noise sources may be effectively mitigated by incorporating noise mitigation measures into the project design that consider the geographical relationship between the noise sources of concern and potential receptors, the noise-producing characteristics of the sources and the path of transmission between noise sources and sensitive receptors. Options for noise mitigation include the use of building setbacks, the construction of sound walls and the use of noise source equipment enclosures.

When specific uses within the study area are proposed that could result in a noise-related conflict between a commercial or other stationary noise source and existing or proposed noise-sensitive receptor, an acoustical analysis should be required that quantifies project-related noise levels and recommends appropriate mitigation measures to achieve compliance with the City's noise standards. The acoustical analysis should be the responsibility of the project applicant and should be completed prior to issuance of a building permit.

Construction Noise and Vibration

Construction noise would occur at various locations within and near the project site through the buildout period. Existing sensitive receptors could be located as close as 100 feet from construction activities. Table VII provides typical construction-related noise levels at distances of 50, 100 feet, 200 feet, and 300 feet.

Construction noise is not considered to be a significant impact if construction is limited to the allowed hours and construction equipment is adequately maintained and muffled. Extraordinary noise-producing activities (e.g., pile driving) are not anticipated. The City of Kerman limits hours of construction activities to occur between 7:00 a.m. and 10:00 p.m. A noise impact could occur if construction activities were to occur outside the allowable hours of 7:00 a.m. to 10:00 p.m.

TABLE VII
TYPICAL CONSTRUCTION EQUIPMENT
MAXIMUM NOISE LEVELS, dBA

Type of Equipment	50 Ft.	100 Ft.	200 Ft.	300 Ft.
Concrete Saw	90	84	78	74
Crane	81	75	69	65
Excavator	81	75	69	65
Front End Loader	79	73	67	63
Jackhammer	89	83	77	73
Paver	77	71	65	61
Pneumatic Tools	85	79	73	69
Dozer	81	76	70	66
Rollers	80	74	68	64
Trucks	86	80	72	70
Pumps	80	74	68	64
Scrapers	87	81	75	71
Portable Generators	81	74	68	64
Backhoe	86	80	74	70
Grader	86	80	74	70

Source: FHWA

Noise Control for Buildings and Manufacturing Plants, Bolt, Beranek & Newman, 1987

The dominant sources of man-made vibration are sonic booms, blasting, pile driving, pavement breaking, demolition, diesel locomotives, and rail-car coupling. None of these activities are anticipated to occur with construction or operation of the proposed project. Vibration from construction activities could be detected at the closest sensitive land uses, especially during movements by heavy equipment or loaded trucks and during some paving activities. Typical vibration levels at distances of 25, 100 feet and 300 feet are summarized by Table VIII. These levels would not be expected to exceed any significant threshold levels for annoyance or damage, as provided above in Table II and Table III.

TABLE VIII
TYPICAL VIBRATION LEVELS DURING CONSTRUCTION

Equipment	PPV (in/sec)		
	@ 25'	@ 100'	@ 300'
Bulldozer (Large)	0.089	0.019	0.006
Bulldozer (Small)	0.003	0.0006	0.0002
Loaded Truck	0.076	0.017	0.005
Jackhammer	0.035	0.008	0.002
Vibratory Roller	0.210	0.046	0.013
Caisson Drilling	0.089	0.019	0.006

Source: *Caltrans*

IMPACT SUMMARY

This impact summary addresses only the noise impacts determined to be “potentially significant” and summarizes the appropriate measures that would be required to reduce noise levels to a “less than significant” level, if applicable.

- **Potential Impact:** Noise levels from new stationary noise sources associated with proposed mixed-use (commercial) land uses within the project site could potentially impact both existing and proposed on-site sensitive receptors. The exact uses of the mixed-use component were not known at the time this analysis was prepared.

Mitigation: Noise levels from new stationary noise sources may be effectively mitigated by incorporating appropriate noise mitigation measures into the project design that consider the geographical relationship between the noise sources of concern and potential receptors, the noise-producing characteristics of the sources and the path of transmission between noise sources and sensitive receptors. If required, options for noise mitigation include the use of building setbacks, the construction of sound walls and the use of noise source equipment enclosures. When specific uses within the proposed mixed-use area are proposed that could result in a noise-related conflict between a commercial or other stationary noise source and existing or proposed noise-sensitive receptor, an acoustical analysis may be required by the City that quantifies project-related noise levels and recommends appropriate mitigation measures to achieve compliance with the City’s noise standards.

- **Potential Impact:** A noise impact could occur if new proposed sensitive receptors (residential land uses) are located within the cumulative 60 dB L_{dn} traffic noise contours. Table VI provides the setback distances from the centerline of Nielsen Avenue, Madera Avenue, as well as the future alignment of Harvest Elem Road, to the 60 dB L_{dn} exterior noise level contour. If outdoor activity areas of proposed residential land uses are located within the 60 dB L_{dn} noise contours, mitigation measures must be incorporated into project design.

Mitigation: Noise levels from transportation noise sources may be effectively mitigated by incorporating noise mitigation measures into the project design that consider the geographical relationship between the noise sources of concern and potential receptors, the noise-producing characteristics of the sources and the path of transmission between noise sources and sensitive receptors. Options for noise mitigation include the use of building setbacks and the construction of sound walls. A preliminary assessment has indicated that the inclusion of a 6-foot sound wall would be sufficient to mitigate exterior noise levels if residential land uses are proposed within the setback distances provided above in Table VI.

- **Potential Impact:** A noise impact could occur if construction activities occur outside of the allowable hours of construction and/or do not incorporate appropriate best management practices in regards to construction-related noise. Implement best management practices to minimize the potential for noise impacts on existing sensitive receptors in the project area, during project construction. The following provides the allowable hours of construction as well as generalized best management practices that should be applied during periods of project construction to ensure that noise impacts do not result from project construction:
 - Per the City of Kerman Code of Ordinances, construction activities should not occur outside the hours of 7:00 a.m. to 10:00 p.m. Construction activities that occur outside these hours would be subject to the stationary noise standards provided above in Table I.

Interior Noise Compliance:

Based upon exterior noise exposure levels calculated (and measured) for the project site, it is not anticipated that any proposed residential land uses within the project site would exceed the City of Kerman interior noise level standard of 45 dB L_{dn}, assuming the following are incorporated into residential design:

1. Mechanical ventilation or air conditioning must be provided for all homes so that windows and doors can remain closed for sound insulation purposes.

The conclusions and recommendations of this acoustical analysis are based upon the best information known to WJV Acoustics Inc. (WJVA) at the time the analysis was prepared concerning the proposed lot layout plan, project site elevation, traffic volumes, roadway configurations and railroad operations. Any significant changes in these factors will require a reevaluation of the findings of this report. Additionally, any significant future changes in motor vehicle technology, train technology, noise regulations or other factors beyond WJVA's control may result in long-term noise results different from those described by this analysis.

Respectfully submitted,



Walter J. Van Groningen
President

WJV:wjv

FIGURE 1: SITE PLAN



FIGURE 2: PROJECT SITE VICINITY AND AMBIENT NOISE MEASUREMENT LOCATIONS

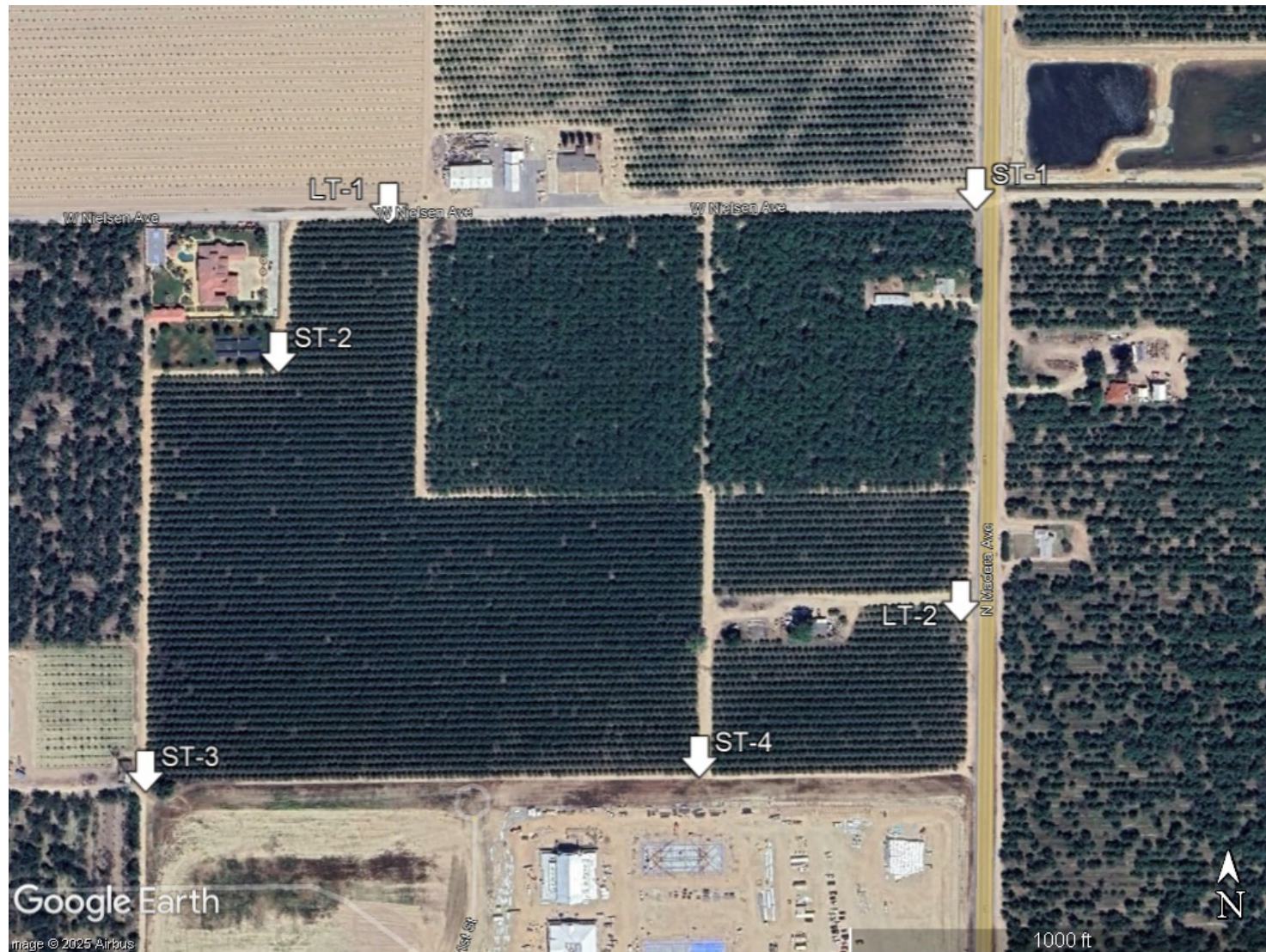


FIGURE 3: HOURLY NOISE LEVELS AT AMBIENT NOISE MEASUREMENT SITE LT-1

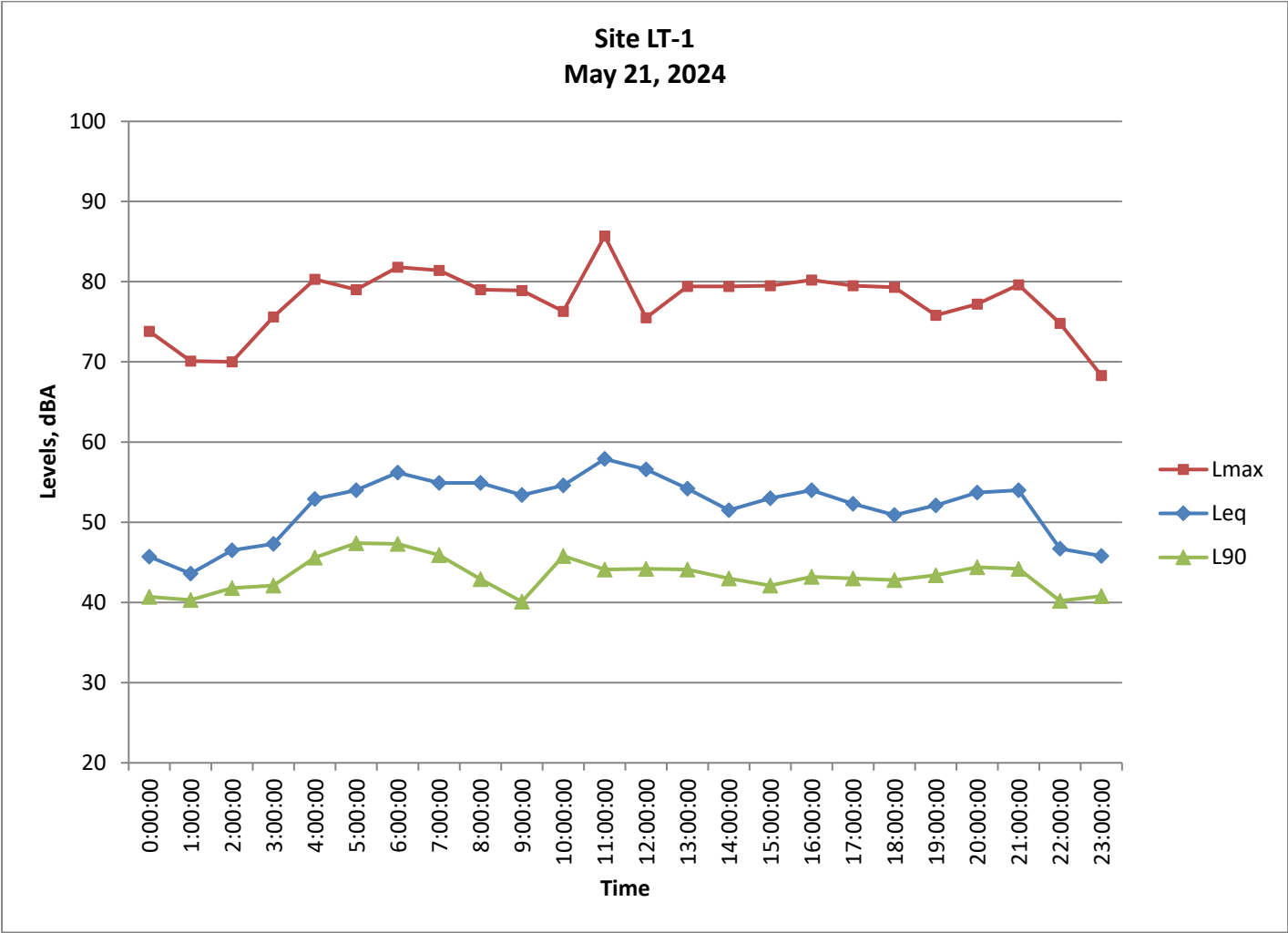


FIGURE 4: AMBIENT NOISE MEASUREMENT SITE LT-1



FIGURE 5: HOURLY NOISE LEVELS AT AMBIENT NOISE MEASUREMENT SITE LT-2

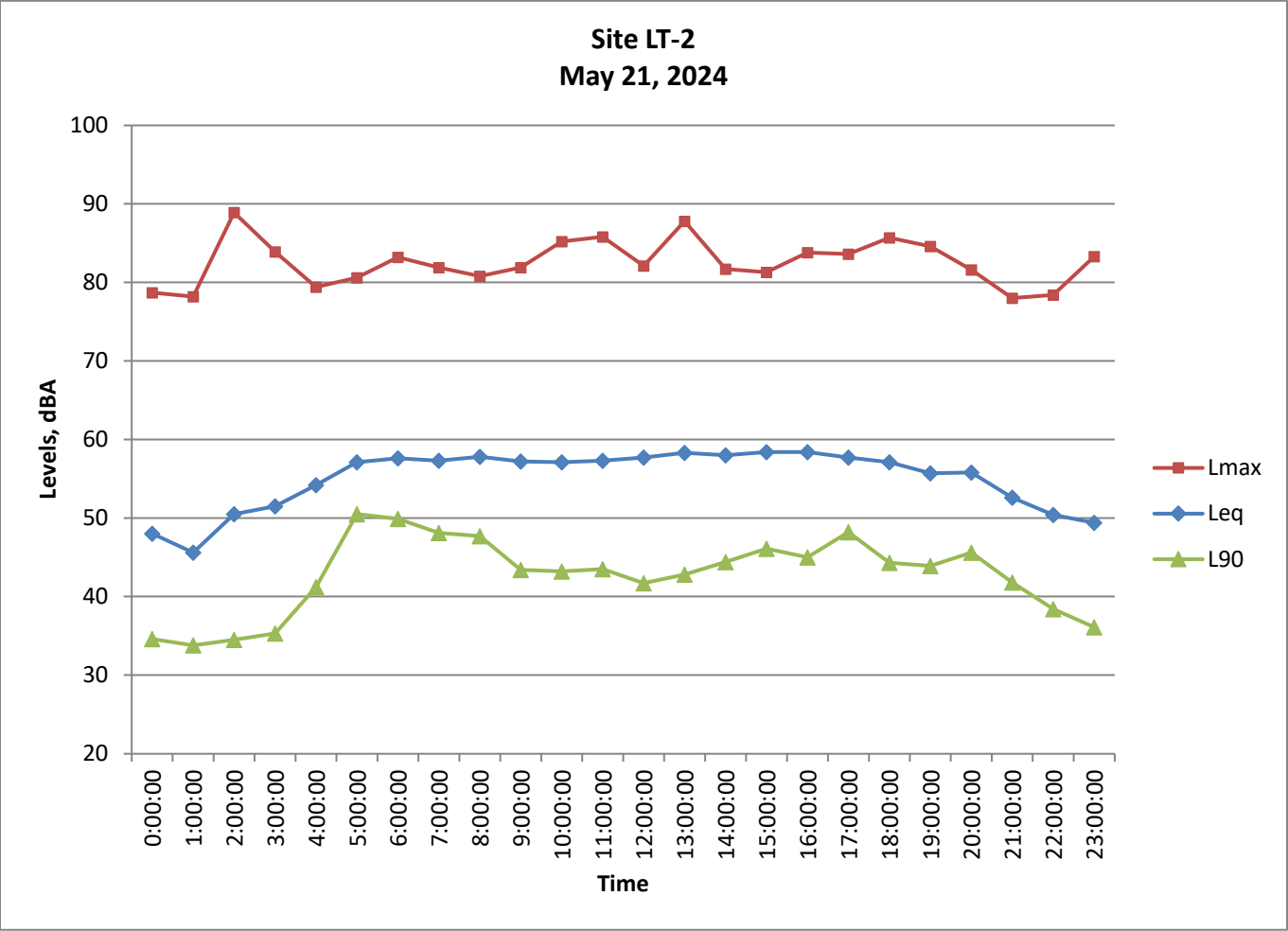
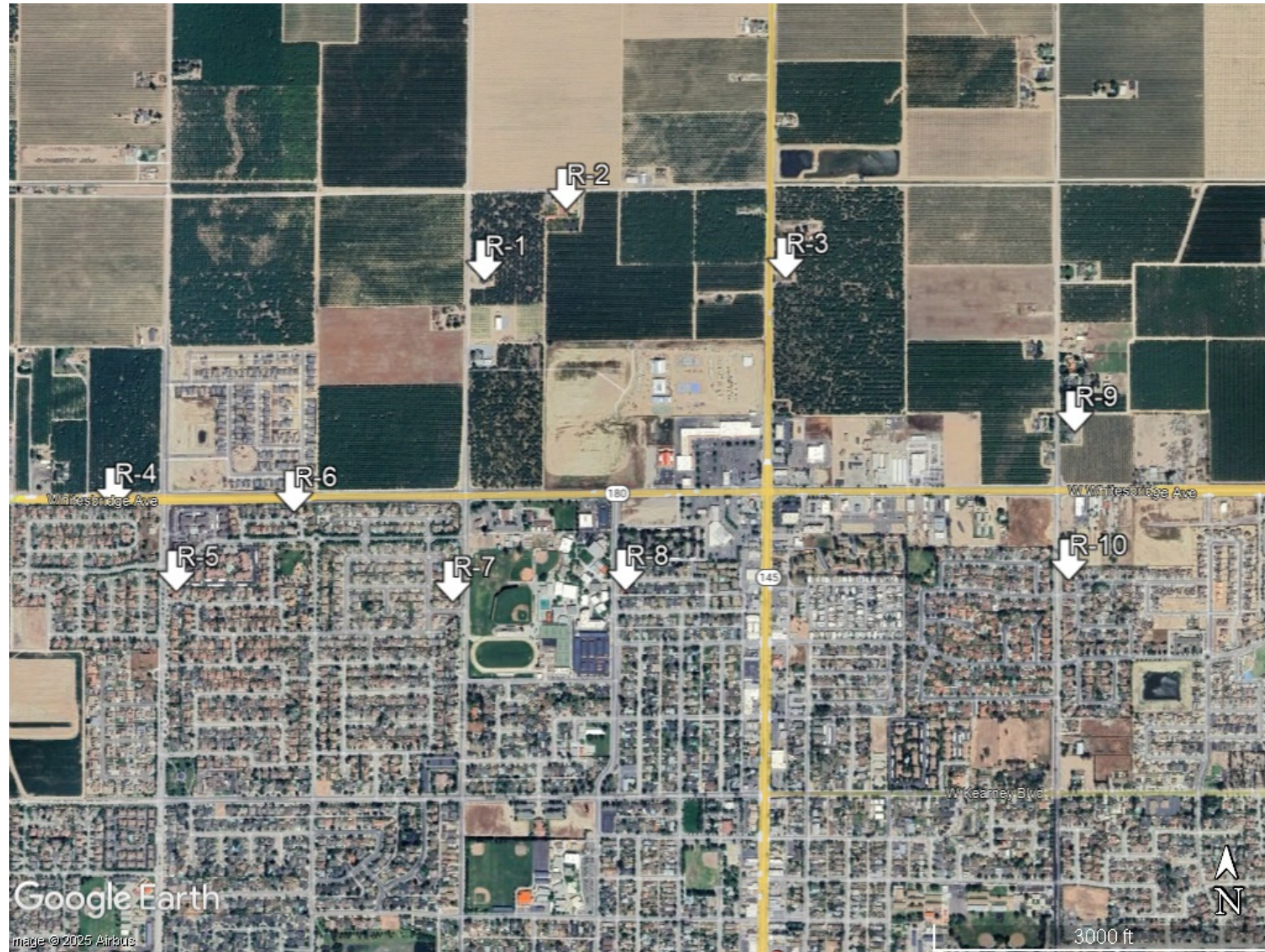


FIGURE 6: AMBIENT NOISE MEASUREMENT SITE LT-2



FIGURE 7: MODELED TRAFFIC NOISE EXPOSURE RECEPTORS



APPENDIX A

ACOUSTICAL TERMINOLOGY

AMBIENT NOISE LEVEL:	The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.
CNEL:	Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.
DECIBEL, dB:	A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).
DNL/L_{dn}:	Day/Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.
L_{eq}:	Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. L_{eq} is typically computed over 1, 8 and 24-hour sample periods.
NOTE:	The CNEL and DNL represent daily levels of noise exposure averaged on an annual basis, while L_{eq} represents the average noise exposure for a shorter time period, typically one hour.
L_{max}:	The maximum noise level recorded during a noise event.
L_n:	The sound level exceeded "n" percent of the time during a sample interval (L_{90} , L_{50} , L_{10} , etc.). For example, L_{10} equals the level exceeded 10 percent of the time.

A-2

ACOUSTICAL TERMINOLOGY

NOISE EXPOSURE CONTOURS:

Lines drawn about a noise source indicating constant levels of noise exposure. CNEL and DNL contours are frequently utilized to describe community exposure to noise.

NOISE LEVEL REDUCTION (NLR):

The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of “noise level reduction” combines the effect of the transmission loss performance of the structure plus the effect of acoustic absorption present in the receiving room.

SEL or SENEL:

Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

SOUND LEVEL:

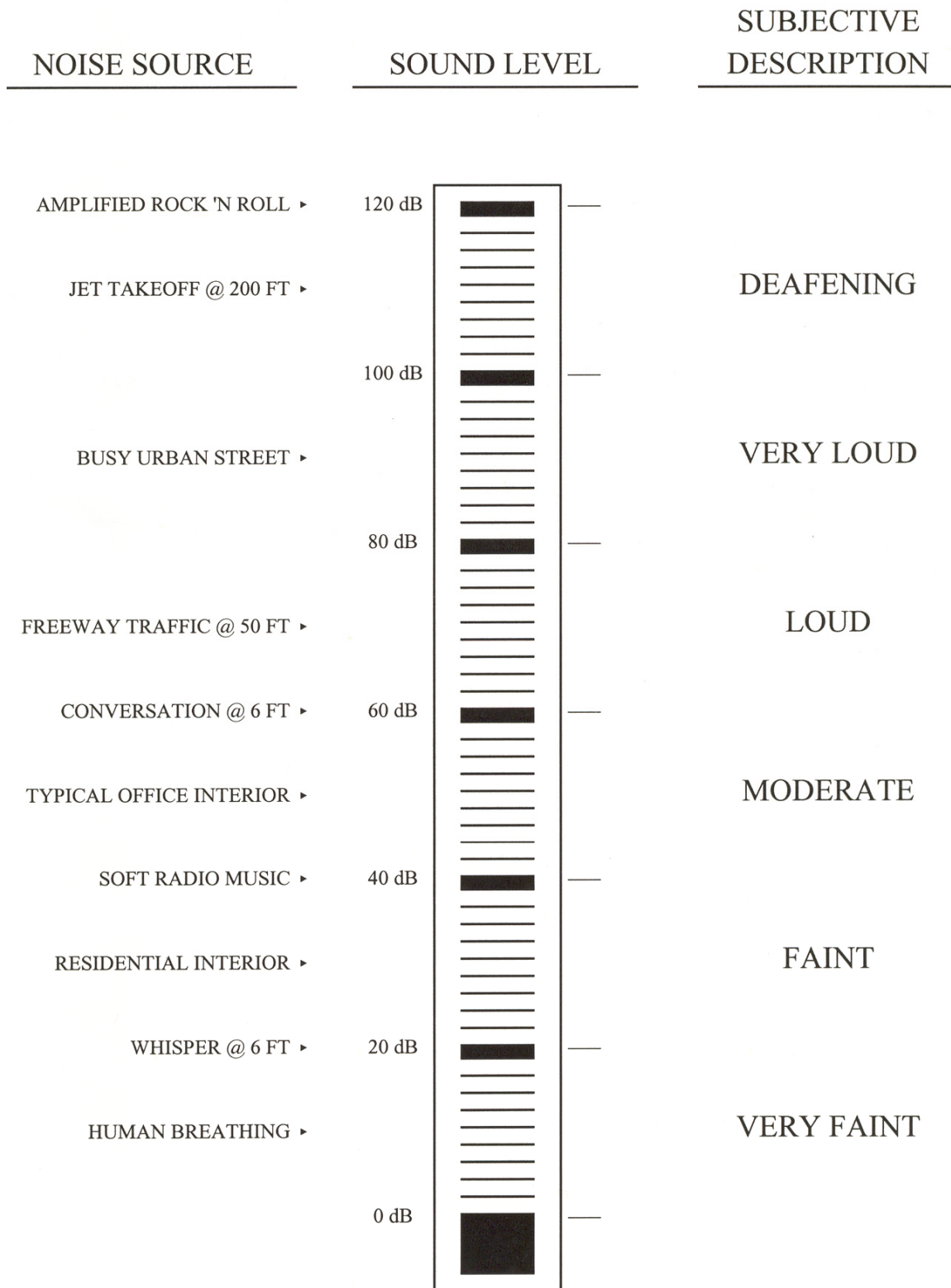
The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

SOUND TRANSMISSION CLASS (STC):

The single-number rating of sound transmission loss for a construction element (window, door, etc.) over a frequency range where speech intelligibility largely occurs.

APPENDIX B

EXAMPLES OF SOUND LEVELS



APPENDIX C

TRAFFIC NOISE MODELING CALCULATIONS

WJV Acoustics, Inc
FHWA-RD-77-108
Calculation Sheets
February 18, 2025

Project #:	24-14
Description:	Existing
Ldn/Cnel:	Ldn
Site Type:	Soft

Contour Levels (dB)	60	65	70	75					
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[illegible]

February 18, 2025

Project #:	24-14
Description:	Existing + project
Ldn/Cnel:	Ldn
Site Type:	Soft

Contour Levels (dB)	60	65	70	75					
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[illegible]

WJV Acoustics, Inc
 FHWA-RD-77-108
 Calculation Sheets
 February 18, 2025

Project #:	24-14
Description:	2046
Ldn/Cnel:	Ldn
Site Type:	Soft

Contour Levels (dB)	60	65	70	75					
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[illegible]

February 18, 2025

Soft

[illegible]



7.6 Appendix F: VMT Analysis

Prepared by JLB Traffic Engineering, Inc., dated February 19, 2025.

Vehicle Miles Traveled Analysis

Orchard Estates

Located on the Southwest Quadrant of
State Route 145 and Nielsen Avenue

In Kerman, California

Prepared for:

Precision Civil Engineering, Inc.
1234 O Street
Fresno, CA 93721

February 19, 2025

Project No. 025-011



Traffic Engineering, Transportation Planning, & Parking Solutions

516 W. Shaw Ave., Ste. 103

Fresno, CA 93704

Phone: (559) 570-8991

www.JLBtraffic.com



Traffic Engineering, Transportation Planning, & Parking Solutions

Vehicle Miles Traveled Analysis

**For Orchard Estates located on the Southwest Quadrant of State Route 145
and Nielsen Avenue**

In Kerman, CA

February 19, 2025

This Vehicle Miles Traveled Analysis has been prepared under the direction of a licensed Traffic Engineer. The licensed Traffic Engineer attests to the technical information contained therein and has judged the qualifications of any technical specialists providing engineering data from which recommendations, conclusions and decisions are based.

Prepared by:

A handwritten signature in black ink, reading "Jose L Benavides", is written over a horizontal line.

Jose Luis Benavides, P.E., T.E.

President



Traffic Engineering, Transportation Planning, & Parking Solutions

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Appendix A: Fresno COG Activity Based Model VMT Output

Project Description

This report describes a Vehicle Miles Traveled (VMT) Analysis prepared by JLB Traffic Engineering, Inc. (JLB) for Orchard Estates (Project) located on the southwest quadrant of State Route 145 at Nielsen Avenue in the City of Kerman. The Project proposes to develop up to 179 single family residential units, 150 multi-family residential units and 13.5 thousand square feet of general commercial. Based on information provided to JLB, the proposed Project's will undergo a General Plan Amendment through the City of Kerman.

Project Trip Generation

Trip generation rates for the proposed Project were obtained from the 11th Edition of the *Trip Generation Manual* published by the Institute of Transportation Engineers (ITE). Table I presents the trip generation for the proposed Project with trip generation rates for Single-Family Detached Housing (Land Use Code 210), Multifamily Housing (Low-Rise) (Land Use Code 220) and Strip Retail Plaza (less than 40,000 square feet) (Land Use Code 822). At buildout and before accounting for pass-by trips, the Project is estimated to generate approximately 3,434 daily trips, 217 AM peak hour trips and 334 PM peak hour trips.

Table I: Project Trip Generation

Land Use (ITE Code)	Size	Unit	Daily		AM (7-9) Peak Hour						PM (4-6) Peak Hour					
			Rate	Total	Trip Rate	In	Out	In	Out	Total	Trip Rate	In	Out	In	Out	Total
						%						%				
Single-Family Detached Housing (210)	179	d.u.	9.43	1,688	0.70	26	74	33	92	125	0.94	63	37	106	62	168
Multifamily Housing (Low-Rise) – Not Close to Transit (220)	150	d.u.	6.74	1,011	0.40	24	76	14	46	60	0.51	63	37	49	28	77
Strip Retail Plaza (< 40K) (822)	13.500	k.s.f.	54.45	735	2.36	60	40	19	13	32	6.59	50	50	45	44	89
Total Driveway Trips				3,434				66	151	217				200	134	334

Note: d.u. = Dwelling Unit
Ks.f. = Thousand Square Feet

VMT Analysis

Regulatory Setting

Senate Bill (SB) 743 requires that relevant California Environmental Quality Act (CEQA) analysis of transportation impacts be conducted using a metric known as VMT instead of level of service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the project adds excessive car travel onto our roads, the project may cause a significant transportation impact.

The State CEQA Guidelines were amended to implement SB 743, by adding Section 15064.3. Among its provisions, Section 15064.3 confirms that, except with respect to transportation projects, a project's effect on automobile delay shall not constitute a significant environmental impact. Therefore, LOS measures of impacts on traffic facilities are no longer a relevant CEQA criteria for transportation impacts.

CEQA Guidelines Section 15064.3(b)(4) states that “[a] lead agency has discretion to choose the most appropriate methodology to evaluate a project’s vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project’s vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revision to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.”

The City of Kerman follows the Fresno County Council of Governments’ (COG) *VMT Implementation Regional Guidelines* and *Technical Report*, referred to in this document as the Fresno COG VMT Guidelines. The thresholds described therein are referred to herein as the City of Kerman VMT Thresholds. The Fresno COG VMT Guidelines were prepared and adopted consistent with the requirements of CEQA Guidelines Sections 15064.3 and 15064.7. The December 2018 Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory) published by the Governor’s Office of Planning and Research (OPR), was utilized as a reference and guidance document in the preparation of the Fresno COG VMT Guidelines.

The Fresno COG VMT Guidelines adopted a screening standard and criteria that can be used to screen out qualified development projects that meet the adopted criteria from needing to prepare a detailed VMT Analysis. These criteria may be size, location, proximity to transit, of trip making potential. In general development projects that are consistent with the City of Kerman’s General Plan and Zoning and that meet one or more of the following criteria can be screened out from a quantitative VMT analysis.

1. Project Located in a Transit Priority Area/High Quality Transit Corridor (within 0.5 miles of a transit stop).
2. Project is Local-serving Retail of less than 50,000 square feet.
3. Project is a Low Trip Generator (Less than 500 average daily trips)
4. Project has a High Level of Affordable Housing Units
5. Project is an institutional/Government and Public Service Uses
6. Project is located in a Low VMT Zone

This screening tool is consistent with the OPR December 2018 Guidance referenced above. The screening tool includes an analysis of those portions of the City that satisfy the standard of reducing VMT by 13% from existing per capita and per employee VMT averages within the relevant region. The relevant region adopted by the Fresno COG VMT Guidelines is Fresno County. The Fresno COG VMT Guidelines Section 3.1 regarding Development Projects states that "If a project constitutes a General Plan Amendment (GPA) or a Zone Change (ZC), none of the screening criteria may apply".

For projects that are not screened out, a quantitative analysis of VMT impacts must be prepared and compared against the adopted VMT thresholds of significance. The Fresno COG VMT Guidelines document includes thresholds of significance for development projects, transportation projects, and land use plans. These thresholds of significance were developed using the County of Fresno as the applicable region, and the required reduction of VMT (as adopted in the Fresno COG VMT Guidelines) corresponds to Fresno County’s contribution to the statewide GHG emission reduction target. In order to reach the statewide

GHG reduction target of 15%, Fresno County must reduce its GHG emissions by 13%. The method of reducing GHG by 13% is to reduce VMT by 13% as well.

VMT Screening

There are two land use categories identified in this Project. The single family housing and multifamily housing are both designated as a residential land use category and the commercial land uses are designated as retail land use category. Within the Fresno COG VMT Guidelines there are six (6) screening criteria. These criteria are stated in the Regulatory Settings sections of this Report. Since this Project includes a General Plan Amendment, the screening criteria would not apply and a quantitative VMT analysis is required. The Project's quantitative VMT analysis was prepared utilizing the Fresno COG Activity Based Model (ABM).

VMT Thresholds

VMT is simply the product of a number of trips and those trips' lengths. The first step in a VMT analysis is to establish the baseline average VMT, which requires the definition of a region. The City of Kerman VMT Guidelines provide the Fresno County average VMT per Capita (appropriate for residential land uses) and Employee (appropriate for office/commercial non-retail land uses) are 16.1 and 25.6, respectively. The City's threshold targets a 13% reduction in VMT for residential and office/commercial non-retail land uses and a net zero (0) increase in regional VMT for commercial retail land uses.

The City's adopted thresholds for development projects correspond to the regional averages modeled by Fresno COG's ABM. For residential and office development projects, the adopted threshold of significance is a 13% reduction, which means that projects that generate VMT in excess of a 13% reduction from the existing regional VMT per capita or per employee would have a significant environmental impact. Projects that reduce VMT by 13% or more are less than significant. The adopted threshold for all other land use types that don't require a GPA or ZC is no net increase in VMT per employee. The adopted threshold for retail projects is any net increase in Regional VMT compared to the existing Regional VMT. Quantitative assessments of the VMT generated by a development project are determined using the Fresno COG ABM, which is a tour-based model.

For mixed use projects, the Fresno COG VMT Guidelines state that the VMT can be estimated based on each component of the project, independently, after taking credit for internal trip capture. It also confirms that mixed use projects must use the Fresno COG's Activity Based Model. The VMT per capita (for the residential component) and the total VMT (for the retail component) is then compared against the relevant threshold.

The target VMT for residential and commercial non-retail land uses are $(16.10 \times (1-.13) = 14.01)$ 14.01 VMT per capita and $(25.60 \times (1-.13) = 22.27)$ 22.27 VMT per employee, respectively. The target VMT for all other type of land uses that are consistent with the General Plan is 25.60 VMT per employee. The threshold for retail land uses is a net zero (0) increase in Regional VMT for retail land uses (Fresno COG, 2021).

VMT Results

The Project's trip generation with land use, number of units and square footages were provided to an approved Fresno COG modeler, LSA, in order to conduct a Project-specific VMT analysis using the Fresno COG ABM for Project components. Table II summarizes the VMT results for the Project derived from Fresno COG ABM and the relevant threshold. Based on Fresno COG ABM VMT results, the Project's residential component has an average VMT of 13.90 VMT per capita which is below the City's VMT threshold of 14.01 VMT per capita. Based on Fresno COG ABM VMT results, the regional VMT with the retail component is 23,316,257 and the regional VMT without the retail component is 23,315,643. As such, the retail component before accounting for pass-by trip reductions is projected to be above the City's VMT threshold of no net increase in regional VMT Appendix A presents the Project VMT output from the Fresno COG ABM.

Table II: VMT Results Prior to Mitigation

<i>Project Components</i>	<i>Fresno COG ABM Results¹</i>	<i>City of Kerman VMT Threshold²</i>
Residential	13.90	14.01
Retail	23,316,257	23,315,643

Note: 1 = VMT Results per Fresno COG ABM.

2 = VMT Threshold per Fresno County SB 743 Implementation Regional Guidelines for the City of Kerman.

Pass-By Reductions

It is anticipated that this Project will benefit from Pass-By trips. Pass-By Trip reductions are applied to vehicles already on the road adjacent to the Project. Per Caltrans guidelines, these rates were limited to 15 percent of the Project's retail Trip Generation. While it is anticipated that the Project will attract a larger rate of pass-by trips than 15 percent, this VMT analysis has been limited to 15 percent in an effort to provide a conservative result. Considering that pass-by trips do not add any VMT to the roadway network as a result of the Project, pass-by trips can be removed from the VMT generated by the Project. Therefore, the Project's total VMT will be reduced by 15 percent. 15 percent of the Project's daily trips is 110 trips (735 daily trips * 0.15 = 110 trips) when rounded down. According to the Fresno COG ABM, the average trip length for the Retail TAZ is 6.1 miles. After the reduction from pass-by trips, the regional VMT with retail component is reduced by 671 miles (110 trips * 6.1 VMT per Trip = 671 miles). This reduced the regional VMT with retail component to 23,315,586 miles (23,316,257 miles – 671 miles = 23,315,586 miles). As such, the Project is projected decrease regional VMT by 57 miles (23,315,586 – 23,315,643 = -57 miles). These results are summarized in Table III. As a result, both the residential and retail components of the Project are projected to result in a less than significant VMT impact.

Table III: VMT Mitigations

<i>Project Components</i>	<i>Fresno COG plus Project Regional VMT Results¹</i>	<i>Reduction from VMT Pass-By</i>	<i>VMT After Mitigations</i>	<i>City of Fresno No Project Regional VMT Threshold²</i>	<i>Significant VMT Impact?</i>
Retail	23,316,257	671	23,315,586	23,315,643	No

Note: 1 = VMT Results per Fresno COG ABM.

2 = VMT Threshold per Fresno County SB 743 Implementation Regional Guidelines for the City of Kerman.

Conclusion

Conclusions regarding the VMT Analysis of the proposed Project are provided below:

- Based on information provided to JLB, the proposed Project's will undergo a General Plan Amendment through the City of Kerman.
- Residential VMT Analysis:
 - Per the Fresno COG ABM, the Project is projected to result in a 13.90 VMT per Capita.
 - The threshold for residential projects is 14.01 VMT per Capita.
 - Therefore, the residential component of the Project is projected to result in a less than significant impact to VMT.
- Retail VMT Analysis:
 - Per the Fresno COG ABM, the regional VMT without the retail component was output at 23,315,643 and the regional VMT with the retail component prior to pass-by reduction was output at 23,316,257.
 - Pass—by reductions are anticipated to result in a reduction to regional VMT of 671.
 - The regional VMT with the retail component and pass-by reduction is 23,315,586 which is less than the regional VMT without the retail component.
 - The threshold for retail projects is no net increase to Regional VMT.
 - Therefore, once the pass-by trips are considered, the retail component of the Project is projected to result in a less than significant impact to VMT.

Study Participants

JLB Traffic Engineering, Inc. Personnel

Jose Luis Benavides, PE, TE	Project Manager
Matthew Arndt, EIT	Project Engineer
Christian Sanchez, EIT	Project Engineer
Adrian Benavides	Engineer I/II
Arjun Dhillon	Engineering Aide
Diana Cortes	Engineering Aide

Persons Consulted:

Bonique Emerson, AICP	Precision Civil Engineering, Inc.
Shin Tu	Precision Civil Engineering, Inc.
Jerry Jones, PE	City of Kerman
Jesus Gonzales, PE	City of Kerman
Andrew Vongphachanh, EIT	City of Kerman
Hector Luna	County of Fresno
Brody Hines	County of Fresno
David Padilla	Caltrans, D6
Keyomi Jones, MBA	Caltrans, D6
William Bigbee	Caltrans, D6
Vernie Ratnam	Caltrans, D6
Ravi Palakurthy	LSA
Ambarish Mukherjee, PE, AICP	LSA

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Appendix A: Fresno COG Activity Based Model VMT Output



www.JLBtraffic.com
info@JLBtraffic.com

516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
(559) 570-8991

A p p | A

VMT Calculations - Project Residential
Gill Orchard Estates Residential Development

2019	Gill Orchard Estates Residential (Project) *	Fresno County **
Total project households	329	
Total project population (a)	987	
Percent Population traveling to outside (b) *	7.79%	
Project Population traveling to outside (c=b*a)	77	
Total Internal-Internal (II) Project VMT (d) **	13,386	
Internal project population (e=a-c)	910	
II VMT per capita (f=d/e)	14.7	
IX VMT per capita (g) ***	4.4	
Total IX VMT (h=g*c)	338	
Total project VMT (i=d+h)	13,724	
VM per capita (j=i/a)	13.9	14.1

* : Obtained from "Fresno_worker_ixifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (1581)

** : Includes all tours and all sub-tours from the ABM model run for VMT estimation

***: IX VMT per capita was estimated as weighted average for all TAZs in the CSTDM Zone 2524

VMT Calculations - Project Retail

2019	With Entire Project (residential + retail) (a)	Without Project retail (only residential) (b)	Difference (c=a-b)
Daily Countywide Roadway VMT	23,316,257	23,315,643	614

Matt Arndt

From: Ravi Palakurthy <Ravi.Palakurthy@lsa.net>
Sent: Tuesday, December 10, 2024 6:21 AM
To: Matt Arndt
Subject: RE: contract review-JLB 20241948

Hi Matt,

The average trip length for all trips (employees and customers) in the retail TAZ is 6.1 miles.

Let me know if you have any questions.

Thank you,
Ravi

From: Matt Arndt <marndt@jlbtraffic.com>
Sent: Wednesday, December 4, 2024 9:17 AM
To: Ravi Palakurthy <Ravi.Palakurthy@lsa.net>
Subject: RE: contract review-JLB 20241948

Good Morning,

That works for me. Thanks, Ravi.

Sincerely,

Matthew Arndt



Traffic Engineering, Transportation Planning and Parking Solutions

Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)

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From: Ravi Palakurthy <Ravi.Palakurthy@lsa.net>
Sent: Tuesday, December 3, 2024 8:13 PM
To: Matt Arndt <marndt@jlbtraffic.com>
Subject: RE: contract review-JLB 20241948

Hi Matt,

We can get the trip lengths from the model but it might take a few days as we don't have it readily available. Would it be ok if we send it by sometime early next week?

Thank you,
Ravi

From: Matt Arndt <marndt@jlbtraffic.com>
Sent: Tuesday, December 3, 2024 10:30 AM
To: Ravi Palakurthy <Ravi.Palakurthy@lsa.net>
Subject: RE: contract review-JLB 20241948

Hello Ravi,

Just wondering if you can provide me for the average trip length of the retail TAZ for this model? Thanks.

Sincerely,

Matthew Arndt



Traffic Engineering, Transportation Planning and Parking Solutions

Certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE)

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From: Ravi Palakurthy <Ravi.Palakurthy@lsa.net>
Sent: Wednesday, September 18, 2024 5:32 PM
To: Matt Arndt <marndt@jlbtraffic.com>
Cc: Ambarish Mukherjee <Ambarish.Mukherjee@lsa.net>; Jose Benavides <jbenavides@jlbtraffic.com>
Subject: RE: contract review-JLB 20241948

Hi Matt,
Below is the zip file with model results for Gill Orchard project.

 [GillOrchard_Deliverables_09-17-2024.zip](#)

The zip file contains:

- gillorchard_vmt_summ_09-17-2024.xlsx: This excel file contains VMT metrics for both residential and commercial components of the project. For residential, we used VMT per capita and for retail, it was difference in roadway VMT within Fresno County.
- 2019: this folder contains loaded network for 2019 plus project scenario with requested link and TAZ modifications.



7.7 Appendix G: Phase I Environmental Site Assessment

Prepared by TECHNICON Engineering Services, Inc., dated March 7, 2024.



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
ORCHARDS AT GILL ESTATES
HIGHWAY 145 & NIELSEN AVENUE
KERMAN, CALIFORNIA**

Prepared For and Submitted To:

MORTON & PITALO, INC.
7643 North Ingram Avenue, Suite 105
Fresno, California 93711

March 7, 2024

TES No. 240050.001



GEOTECHNICAL & ENVIRONMENTAL ENGINEERING — CONSTRUCTION TESTING & INSPECTION

March 7, 2024

TES No. 240050.001

Ms. Katie Fenters
Morton & Pitalo, Inc.
7643 North Ingram Avenue, Suite 105
Fresno, California 93711

Project: Orchards at Gill Estates
Highway 145 & Nielsen Avenue
Kerman, California

Subject: Phase I Environmental Site Assessment

Ms. Fenters:

In accordance with your request and authorization, **TECHNICON Engineering Services, Inc. (TECHNICON)**, has performed a Phase I Environmental Site Assessment of the above-referenced site in conformance with the scope and limitations of ASTM Practice E-1527-21. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. The results of the investigation are detailed in the attached report.

We appreciate the opportunity to assist you with your project. If you should have questions or require additional information, please contact us at (559) 276-9311.

Respectfully,
TECHNICON Engineering Services, Inc.

Lee Curra
Staff Geologist

Salvador Alvarez, PE, GE
Director of Engineering



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FIGURES

Figure 1 – Vicinity Map
Figure 2 – Site Map

APPENDICES

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT
ORCHARDS AT GILL ESTATES
HIGHWAY 145 & NIELSEN AVENUE
KERMAN, CALIFORNIA**

1.0 SUMMARY

We have performed a Phase I Environmental Site Assessment of the Site in conformance with the scope and limitations of ASTM Practice E-1527-21. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

The subject site is comprised of two assessors parcels encompassing approximately 39.3 acres southwest of Nielsen Avenue and Highway 145 in Kerman, California. The property consists of agricultural land and two residential homes.

From some time prior to 1946 to 2005 the Site consisted of agricultural land with a residence present on the southeastern portion of the Site. Sometime 2005 and 2009 a second residence was constructed on the northwest corner of the Site.

This assessment has revealed no evidence of recognized environmental conditions (RECs), controlled RECs, historical RECs, or records of environmental liens in connection with the property.

TECHNICON does, however, recommend that the empty drum be properly disposed.

2.0 INTRODUCTION

In accordance with the request and authorization of Ms. Katie Fenters of Morton & Pitalo, Inc., **TECHNICON Engineering Services, Inc. (TECHNICON)** has conducted a Phase I Environmental Site Assessment (ESA) of the above-referenced Site. The following sections present a description of the Site and vicinity, available information obtained during this investigation, and our evaluations.

2.1 Objective

The purpose and objective of this investigation was to evaluate existing or potential environmental impacts at or near the Site and to permit the user to satisfy one of the requirements to qualify for the “innocent landowner defense” to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability: that is the practices that constitute “all appropriate inquiry into the previous uses and ownership of the property consistent with good commercial or customary practices” as defined in 42 USC Section 9601 (35)(B). This practice may also qualify the user for protections under the bona fide prospective purchaser defense and the contiguous property owner defense to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

The goal of the processes established by this practice is to identify recognized environmental conditions (RECs), meaning “presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.” The goal is to also identify any historical recognized environmental conditions (HRECs), meaning past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls, or controlled recognized environmental conditions (CRECs), which are defined as recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority.

2.2 Scope of Services

The Phase I Investigation consisted of but was not limited to a visual inspection of the Site and surrounding properties, a review of available regulatory agency records and permits, aerial photographs, and interviews with persons knowledgeable of the Site. The investigation was conducted in general accordance with the guidelines presented in American Society of Testing and

Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-21.

The Phase I ESA included a site reconnaissance, interviews with parties knowledgeable regarding the history of the site, review of regulatory agency records, review of historical records including aerial photographs to establish a site history to the earliest development of the site, and preparation of a report detailing the findings of the ESA including any recognized environmental conditions potentially affecting the site.

2.3 Significant Assumptions

TECHNICON assumes that all information provided by regulatory agencies and the database provider is accurate and reliable to the extent implied.

2.4 Limitations and Exceptions

The objective of this investigation was to evaluate existing or potential environmental impacts due to the present or past usage or storage of hazardous materials or substances at or near the Site. The performance of this investigation does not certify or guarantee that the subject property is free of environmental impacts or hazardous materials, but rather presents our opinion as to the potential for such impacts to exist. The conclusions presented herein regarding the environmental integrity of the property are based on the observations and information gathered during the investigation. Many of the regulatory agency records and databases researched are several months to several years in age and may not accurately reflect current conditions or information, but, these records are the most up-to-date information available from the regulatory agencies.

The focus of the ESA was to assess the potential for hazardous materials impact to the Site resulting from previous and current uses of the Site and nearby properties. As a result, this assessment does not address the presence of the following conditions unless they were specifically requested as part of the scope of work.

1. Naturally-occurring toxic or hazardous materials in the subsurface soils and water.
2. Potential effects of products commonly present on inhabited properties, such as household products, building materials, and consumer goods.
3. Constituents or contaminant concentrations that are not currently regulated but may be regulated under future statutes.

It must also be recognized that a Phase I Environmental Site Assessment is intended for the purpose of determining site conditions through limited research and investigation and can in no way be considered a conclusive site characterization. Furthermore, this document shall not be interpreted to relieve any party of its responsibility to abide by applicable laws, codes, and regulations.

2.5 User Reliance

The Phase I ESA was prepared for, is the property of, and is intended for the sole use of Morton & Pitalo, its successors and agents.

3.0 SITE DESCRIPTION & PHYSICAL SETTING

The Site location and vicinity are presented in Figure 1 (Vicinity Map). According to the U.S. Geological Survey (USGS) 7.5 Minute Kerman, California, topographic quadrangle map, the Site occupies a portion of Section 1 Township 14 South, Range 17 East, Mount Diablo Baseline and Meridian. The site elevation is approximately 220 feet above mean sea level.

The subject site is comprised of two assessors parcels encompassing approximately 39.3 acres southwest of Nielsen Avenue and Highway 145 in Kerman, California. The property consists of agricultural land and two residential homes.

3.1 Assessors Records / User Provided Information

The Fresno County Assessor's Parcel Number (APN), owner, address, and acreage are included in the following table.

APN	Address	Owner	Acres
020-120-03S	15319 West Nielsen Avenue	Gill, Jagroop S	Approx. 19.54
020-120-06	309 N Madera Avenue		Approx. 19.76

* = No address available

An ASTM User Questionnaire for Phase I Environmental Site Assessment, completed by Mr. Jay Gill, was received on January 23, 2024. According to information provided on the User Questionnaire, Mr. Gill indicated that there are no known environmental cleanup lien or activity, or land use limitations recorded or in place for the Site. The User has stated they are aware of the Site past use for agriculture. A copy of the User Questionnaire is presented in Appendix B of this report.

3.2 Groundwater Conditions

The area of the Site is generally underlain by groundwater occurring in unconfined, perched, and semi-confined conditions. Within the Central Valley, regional movement of ground water is toward a topographic trough located on the western side of the valley, and from there, toward the north to the Sacramento River-Delta region.

The local groundwater table elevation fluctuates in the area of the Site. This is caused by ground water pumping for municipal and agricultural use and by groundwater recharge from rivers, canals, and ponding basins. According to the California Department of Water Resources (DWR) GIS data dated Spring 2023, groundwater in the vicinity of the subject site flows generally to the southwest and would be encountered at a depth of approximately 125 feet below ground surface.

4.0 ENVIRONMENTAL RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the property. ASTM standard and additional environmental records were obtained from Envirosearch Corporation of Shelton, Connecticut. Standard environmental records are those from federal and approximately equivalent state agencies. Additional records are those that can enhance and supplement the standard environmental record sources and generally can be obtained from local governmental and non-governmental agencies. The Envirosearch Radius Map Report is attached in Appendix C.

For those listed sites where the Envirosearch-provided records are not sufficient to identify a listed site's potential impact to the Property, Technicon obtained and reviewed reasonably ascertainable records of the listed site from the appropriate "Additional Environmental Record Source" presented in Section 4.2.

4.1 Standard Environmental Record Sources

This section identifies record information that was reviewed from standard federal and state agency sources. Listed sites are grouped according to their ASTM-recommended approximately minimum search distance.

4.1.1 1-Mile Approximate Minimum Search Distance

Federal NPL

The National Priority List (NPL) sites are United States Environmental Protection Agency (EPA) sites on the CERCLIS list of uncontrolled or abandoned hazardous waste sites for priority cleanup under the Superfund Program. Also listed are Proposed NPL and NPL Liens-listed sites.

- *There are **no** sites identified on or within a one-mile radius of the Site.*

Response (State/Tribal Equivalent NPL)

Response-listed sites identify confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

- *There are **no** sites identified within a one-mile radius of the Site.*

RCRA CORRACTS

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

- *There are **no** sites identified on or within a one-mile radius of the Site.*

4.1.2 ½-Mile Approximate Minimum Search Distance

Delisted NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425. (e), sites may be deleted from the NPL where no further response is appropriate.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

CERCLIS

Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The EPA is transitioning to the Superfund Enterprise Management System, or SEMS. SEMS includes the same data fields and content as CERCLIS.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

ENVIROSTOR (State/Tribal Equivalent CERCLIS)

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites. Includes Clandestine Drug Lab (CDL) sites.

- *There is **one** site identified within a one-half mile radius of the Site.*

Kerman Proposed Elementary School & High School Athletic Facilities | Kerman Proposed Elem is located 0.140 miles south southwest of the Site and maintains a status of "No Further Action". As part of a school development, a 2016 Preliminary Endangerment Assessment (PEA) was conducted for this facility. According to the PEA, soil samples were obtained and tested for metals and organochlorine pesticides. Following DTSC's review of the results of this investigation, DTSC determined that a "no further action" status was granted for this proposed school site.

CERCLIS NFRAP

CERCLIS No Further Remedial Action Planned. Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

RCRA non-CORRACTS TSD

RCRA - Treatment, Storage and Disposal. RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The

database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

State and Tribal Landfill and/or Solid Waste Disposal Sites

The Solid Waste Information System (SWIS) database contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. Also included are sites listed on the State's Waste Management Unit Database System (WMUDS) and Land Disposal Sites Listing (LDS) and U.S. EPA Open Dump Inventory (ODI) and Indian ODI listings.

- *There are **no** sites identified within a one-half mile radius of the Site.*

Leaking Underground Storage Tank Sites

The State of California and its Regional Water Quality Control Boards (Water Board) maintains a database of leaking underground storage tanks (LUST) on its Geotracker database. Also included are sites listed on USEPA's leaking underground storage tanks on Indian Land.

- *There is **one** LUST facility identified within a one-half mile radius of the Site.*

***Arco (Beacon) #618** is located 0.251 miles southeast of the Site and maintains a status of "Completed – Case Closed". This facility is not expected to adversely impact the subject site.*

Spills, Leaks, Investigations & Cleanup (SLIC) Program

In the Spills, Leaks, Investigations & Cleanup (SLIC) Program, the State of California and its Regional Water Quality Control Boards oversee soil and groundwater investigations, corrective actions, and human health risk assessments at sites with current or historic unauthorized discharges, which have adversely affected or threaten to adversely affect waters of the state. Includes Toxic Pits Cleanup Act Sites and Military Cleanup Sites.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

Voluntary Cleanup Sites

The California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) Voluntary Cleanup Program (VCP) is a database of Brownfield and lower priority sites

with either confirmed or unconfirmed releases that allows DTSC to provide investigation and/or cleanup oversight. Also included are sites listed on the State's School Property Evaluation Program.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

Brownfield Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. The Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an online database for Brownfields Grantees to electronically submit data directly to EPA.

- *There are **no** sites identified on or within a one-half mile radius of the Site.*

4.1.3 Property and Adjoining

RCRA Generators List

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA for Large Quantity Generators (LQG), Small Quantity Generators (SQG), and Conditionally Exempt Small Quantity Generators (CESQG). Also includes HAZNET listing of hazardous waste manifests received each year by DTSC.

- *There are **no** RCRA-listed facilities adjacent to the Site.*

***Pat Apiaries / Blair Apiaries / Jay Ray Blair** is located northeast adjacent to the Site and maintains a status of "Inactive". This facility is not expected to adversely affect the subject site.*

Registered Underground Storage Tank (UST) Sites

The California State Water Resources Control Board maintains a database of active underground storage tank (UST) facilities. Also included are sites listed on California's Facility Inventory Database (CA FID), Hazardous Substance Storage Container Database (HIST UST), Statewide Environmental Evaluation and Planning System (SWEEPS), USEPA's Underground Storage Tanks on Indian Land (Indian USTs), and FEMA USTs.

- *There are **two** UST-listed facilities identified adjacent to the Site.*

***Elanora Vallandingham** is located east adjacent to the Site. This facility is not expected to adversely impact the subject site.*

***Pat Apiaries** is located northeast adjacent to the Site. This facility is not expected to adversely impact the subject site.*

Registered Above-ground Storage Tank (AST) Sites

The California State Water Resources Control Board maintains a database of active above-ground storage tank (AST) facilities.

- *There are **no** AST-listed facilities identified on or adjacent to the Site.*

4.1.4 Property Only

Institutional/Engineering Control Registries

US EPA maintains a list of sites with engineering controls which include various forms of caps, building foundations, liners, and treatment methods to eliminate pathways for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Includes Land Use Control Information System (LUCIS) sites pertaining to former Navy properties.

- *The Site is **not** reported to be subject to engineering or institutional controls.*

ERNS List

The EPA's Emergency Response Notification System (ERNS) records and stores information on reported releases of oil and hazardous substances. Includes U.S. Department of Transportation Hazardous Materials Information Reporting System (HMIRS) sites. Also includes California Hazardous Materials Information Reporting System (CHMIRS) sites.

- *The Site is **not** listed in the ERNS Database.*

4.2 Additional Environmental Records Sources

Additional Environmental Records Sources are generally described as local or regional and are intended to enhance and supplement the standard environmental record sources presented in Section 4.1, above. Records for the subject site and adjoining properties were reviewed at the environmental record sources presented below.

4.2.1 Fresno County Environmental Health Division (EHD)

Information on file with the Fresno County Environmental Health Division (EHD) were reviewed to determine if any records of underground storage tanks, hazardous materials handling or releases are on file with their office for the Site and surrounding properties. According to EHD

Official and a review of the most recent Fresno County Certified Unified Program Agency (CUPA) List, there are no records available for the subject site.

5.0 SITE HISTORY

Historic aerial photographs, Building Department records, Local Street Directories, and Sanborn Fire Insurance maps were reviewed to establish a site history. A summary of the historical information review is presented in the following sections.

5.1 Aerial Photograph Review

The following is a summary of our review of available aerial photographs dated **1946, 1954, 1957, 1960, 1962, 1965, 1966, 1968, 1971, 1975, 1978, 1981, 1982, 1984, 1985, 1987, 1993, 1995, 1998, 2005, 2009, 2010, 2012, 2014, 2016, 2018, 2020, & 2022**. Selected historic aerial photographs can be found following this report.

1946, 1954, 1957, 1960, 1962, 1965, 1966, 1968, 1971, 1975, 1978, 1981, 1982, 1984, 1985, 1987, 1993, 1995, 1998, & 2005

Site: The Site appears to consist of agricultural land, with what appears to be a residence located in the southeastern portion of the Site.

Adjacent Property: The surrounding properties are similar in composition to the subject site. What appears to be a small river runs northeast southwest to the east of the Site. By 1981 what is now a shopping center was constructed to the south of the Site.

2009, 2010, 2012, 2014, 2016, 2018, 2020, & 2022

Site: Sometime between 2005 and 2009 another residence was constructed on the northwest corner of the Site.

Adjacent Property: The surrounding properties remain relatively unchanged. By 2022 the agricultural land to the south of the Site became vacant land.

5.2 Sanborn Fire Insurance Maps

Fire Insurance maps are historic large-scale plans of cities and towns originally produced to assist fire insurance companies as they assessed the risks associated in insuring a particular property. These maps typically depict structures, their use, and possible fire hazards. EnviroSite's review of available historic Sanborn Fire Insurance Map indices revealed that the Site was not located in the mapped areas.

5.3 County of Fresno Building Department

On January 25, 2024, **TECHNICON** personnel submitted a public records request form at the County of Fresno Building Department to obtain building records for the Site. According to the City officials, there are records available for review. These records include construction permits, inspection records and maps for: “in-ground swimming pool, heat w/ spa, & natural gas fire pit” dated November of 2007, “solar ground mount for SFR” dated July of 2017, “SFR accessory building” dated September of 2018, “septic system test hole” dated June of 2018, “SFR & attached garage” dated June of 2006, “gazebo” dated October of 2006, “foundation only for SFR accessory building” dated June of 2018, and “electrical panel change out for Ag pump” dated December of 2017.

5.4 Local Street Directories

Records provided by EnviroSite show the address of 309 N Madera as listed in the Property Archives and the Central San Joaquin Valley Criss Cross Directory.

309 N Madera Avenue
1972: Patapoff Jennie
1978: XXXX

5.5 Geologic Energy Management

The Geologic Energy Management Division’s (CalGEM, former Division of Oil, Gas, and Geothermal Resources) depicts oil and gas wells, as well as plugged and abandoned dry holes in the central and southern portions of California. The maps were reviewed to determine if the Site or adjacent properties were occupied by oil and gas wells. Review of the CalGEM Online Mapping System revealed that there are no wells at the Site, and the remaining adjacent properties are not reported to have been occupied by oil and gas wells or plugged and abandoned dry holes.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

A site reconnaissance of the Site was conducted by Mr. Lee Curra (**TECHNICON**) on February 22, 2024. The objective of the site reconnaissance was to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the Site. Methods used to observe the Site included walking the Site and visually and/or physically observing site

features. Photographs were taken of site features and are presented in Appendix A. A Site Map (Figure 2) showing relevant features of the Site can be found following the text of this report.

6.2 General Site Setting

The subject site is comprised of two assessors parcels encompassing approximately 39.3 acres southwest of Nielsen Avenue and Highway 145 in Kerman, California. The property consists of agricultural land and two residential homes.

6.3 Site Reconnaissance Observations

A site reconnaissance was conducted in an effort to determine if the current uses of the Site were likely to involve the use, treatment, storage, disposal or generation of hazardous substances or petroleum products. Additionally, indications of past uses of the Site that were observed or identified in interviews or a records review are also identified.

6.3.1 Storage Tanks

6.3.1.1 Underground Storage Tanks (USTs)

An underground storage tank (UST) is any tank, including underground piping connected to the tank, that is or has been used to store hazardous substances or petroleum products and the volume of which is 10% or more beneath the ground surface.

- **No indications of existing or former USTs were observed at the Site.**

6.3.1.2 Above-ground Storage Tanks (ASTs)

An above-ground storage tank (AST) for the purposes of this report, is any tank that has a capacity to store more than 55 gallons of a hazardous substance or petroleum product and is substantially or totally above the ground surface. Does not include pressure tanks associated with a domestic well.

- **Five ASTs were observed at the Site. Two appear to be natural gas ASTs, and two more appear to be water ASTs associated with the residence on the northwestern corner of the Site. The final AST is a "red dyed diesel" associated with the residence on the southeastern portion of the Site and is used in association with orchard.**

56.3.2 Drums

A drum is a container (typically, but not necessarily, holding 55 gallons of liquid) that may be used to store hazardous substances, petroleum products, or unidentified substances. For the purposes of this report hazardous substances or petroleum product containers greater than 5 gallons and less than 275-gallon totes are considered drums.

- ***One** empty “silica antifoulant” drum was observed near the water ASTs located on the northwest corner of the Site.*

6.3.3 Hazardous Substances and Petroleum Products Containers

Hazardous substances or petroleum products containers for liquids are generally less than 5 gallons and may be made of metal, glass or plastic. Containers may also contain solids and gasses and may be made of paper, plastic, cardboard or metal.

- ***One** container of “fungicide” was observed near a well pump near the residence located on the southeastern portion of the Site.*

6.3.4 Hazardous Substances and Petroleum Products in Equipment

Hazardous substances or petroleum products can be contained in equipment such as elevator and hoist pistons, machinery, forklifts and other equipment.

- ***No** hazardous substances and petroleum products in equipment were observed at the Site.*

6.3.5 Stained or Corroded Soil, Pavements or Floors

Observations of stained soil or pavement or staining or corrosion on floors, walls or ceilings are to be identified; this does not include staining from water.

- ***No** stained or corroded soil, pavements, or floors were observed at the Site.*

6.3.6 Stressed Vegetation

Areas of stressed vegetation, other than from insufficient watering, are to be identified.

- ***No** stressed vegetation was observed at the Site.*

6.3.7 Odors

Strong, pungent, or noxious odors evident of hazardous substances or petroleum products are to be identified.

- ***No** strong odors were noted at the Site.*

6.3.8 Drains and Sumps

Drains and sumps can include floor drains, floor sinks, sumps and oil-water separators. These drains or sumps may drain to on-site septic systems, dry wells, or seepage pits. Drains or sumps may also discharge to an off-site municipal sanitary sewer system.

- ***No** drains or sumps were observed at the Site.*

6.3.9 Pits, Ponds or Lagoons

Pits, ponds and lagoons are man-made or natural depressions in the ground surface that that may hold liquids or sludge containing hazardous substances or petroleum products.

- **No pits, ponds, or lagoons were observed at the Site.**

6.3.10 Pools of Liquid

Pools of liquids include standing surface water, liquid spills, and liquids contained in sumps.

- **No pools of liquid were observed at the Site.**

6.3.11 Solid Waste

For the purposes of this report, solid waste includes areas that are apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal.

- **No solid waste was observed at the Site.**

6.3.12 Waste Water

For the purposes of this report, waste water includes water or other liquids (including storm water) or any discharge into a drain or ditch, underground injection system, stream or pond on or adjacent to the Site.

- **No evidence of waste water was observed at the Site.**

6.3.13 Septic Systems

A septic system is generally an on-site sewage treatment and disposal system which can include a septic tank and disposal field consisting of leach lines, seepage pits or cesspools.

- *Jay Gill, owner of the property, stated septic systems were present for both residences on the Site.*

6.3.14 PCBs

Polychlorinated biphenyl's (PCBs) were once widely used in dielectric and coolant oils in transformers and capacitors. PCB production was banned in the US in 1979 but some older transformers and electrical equipment may still contain PCBs. Many fluorescent light ballasts manufactured before 1979 also contained small quantities of PCBs. An inventory and inspection of fluorescent light ballasts was not conducted as part of this investigation.

- **At least *three* pole-mounted transformers were observed at the Site. No leaks or spills were observed around the PCBs.**

6.3.15 Asbestos-Containing Building Materials

Asbestos is a fibrous material and has been used in many different applications for its fireproofing abilities and resistance to many chemicals. Common uses of asbestos included thermal and

acoustical insulation, fireproofing, textiles, concrete, plastic products such as vinyl floor tiles, roofing felts, and paper and electrical insulation.

- *The Site structure on the southeastern portion of the Site was constructed prior to the 1978 ban on the manufacture of friable asbestos containing material, and before the 1980 PACM date established by the July 10, 1995, Federal regulations. An asbestos survey was not conducted as part of this investigation.*

6.3.16 Heating/Cooling

Fuel sources for heating and cooling systems can include heating oil, natural gas, propane and electric.

- *The heating/cooling system for the buildings is reportedly powered by electricity.*

6.3.17 Wells

Observations of all wells, including water supply (drinking and irrigation), abandoned wells, dry wells, oil wells, injection wells, etc. are to be noted.

- *A well pump and well stands were observed around the Site, and are associated with the agricultural uses of the Site.*

6.4 Adjoining Properties

Adjoining properties are those which are contiguous or partially contiguous with the Site borders. Properties which are separated from the Site by streets, roads or other public thoroughfares are considered adjoining. To the extent that the adjoining properties are visually or physically observable from the Site or publicly accessible areas, observations of the adjoining properties for the purposes of identifying possible recognized environmental conditions that could impact the Site are presented below.

North: Agricultural land / Nielsen Avenue

East: Agricultural land / Highway 145

South: Vacant land / commercial development

West: Agricultural land / Del Norte Avenue

7.0 INTERVIEWS

7.1 Property Owners & Occupants

An interview was conducted with Jay Gill, the owner of the property, regarding the Site's history. He stated that he has been involved with the property for 15-20 years, and is unaware of any USTs, ASTs, pesticide mixing facilities, agricultural-chemical storages, hazardous material spills, or buried trash on the Site. He stated that he is aware of the Site's history of agriculture, growing grapes and orchards.

7.2 Local Government Officials

Interviews with local government officials were discussed previously in Sections 4.1 and 4.2.

8.0 FINDINGS, CONCLUSIONS, & OPINIONS

We have performed a Phase I Environmental Site Assessment of the subject site in conformance with the scope and limitations of ASTM Practice E-1527-21. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

This assessment has revealed no evidence of recognized environmental conditions (RECs), controlled RECs, historical RECs, or records of environmental liens in connection with the property.

TECHNICON does, however, recommend that the empty drum be properly disposed.

9.0 LIST OF SOURCES

ASTM Designation: E 1527-21, Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process: American Society for Testing and Materials, November 2021.

California Department of Water Resources www.water.ca.gov/waterdatalibrary

Envirosite City Directory Report January 25, 2024: Envirosite Corporation, Shelton, Connecticut

Envirosite Government Records Report January 23, 2024: Envirosite Corporation, Shelton, Connecticut.

Envirosite Historical Aerial Photo Report January 24, 2024: Envirosite Corporation, Shelton, Connecticut.

Geologic Energy Management Division's; CalGEM Online Mapping System, <https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>, records review, January 24, 2024.

United States Geological Survey, 7.5-minute series topographic quadrangles, Kerman, California.

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Lee Curra

Staff Geologist

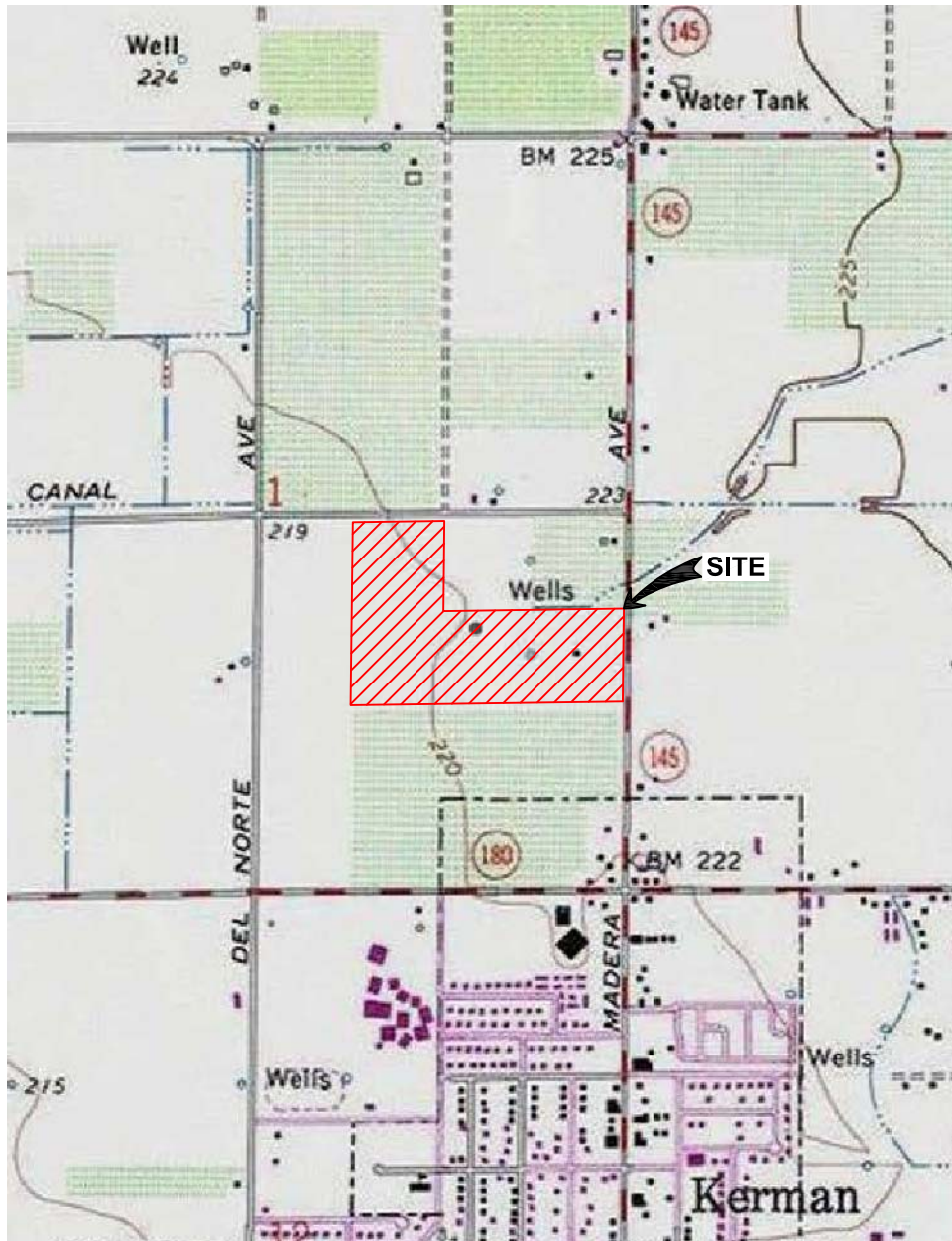
Mr. Curra possesses a Bachelor of Science in Geology from the California State University Humboldt. He possesses the 40-Hour OSHA HAZWOPER Training in accordance with Title 29 Code of Federal Regulations 1910.120.

Salvador Alvarez, PE, GE

Director of Engineering

Mr. Alvarez has nearly 12 years of experience in geotechnical and environmental engineering. Mr. Alvarez is a Registered Civil and Geotechnical Engineer. He has thorough knowledge of the environmental engineering industry, and he has developed the ability to effectively coordinate the activities of civil engineers, geologists, subcontractors, and technicians to ensure the investigation is thorough and cost-effective. He has an excellent working knowledge of the codes governing the environmental issues facing our clients today and strong agency relationships with a variety of local, state, and federal agencies. Mr. Alvarez possesses a B.S. in Civil Engineering from California State University, Fresno. He also possesses the 40-Hour OSHA HAZWOPER Training in accordance with Title 29 Code of Federal Regulations 1910.120.

FIGURES



LAT.: 36.7400°N, LONG.: 120.0637°W, 1-T14S-R17E, MDB&M



PROJECT:
240050

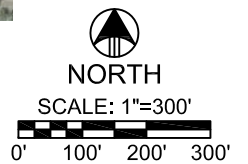
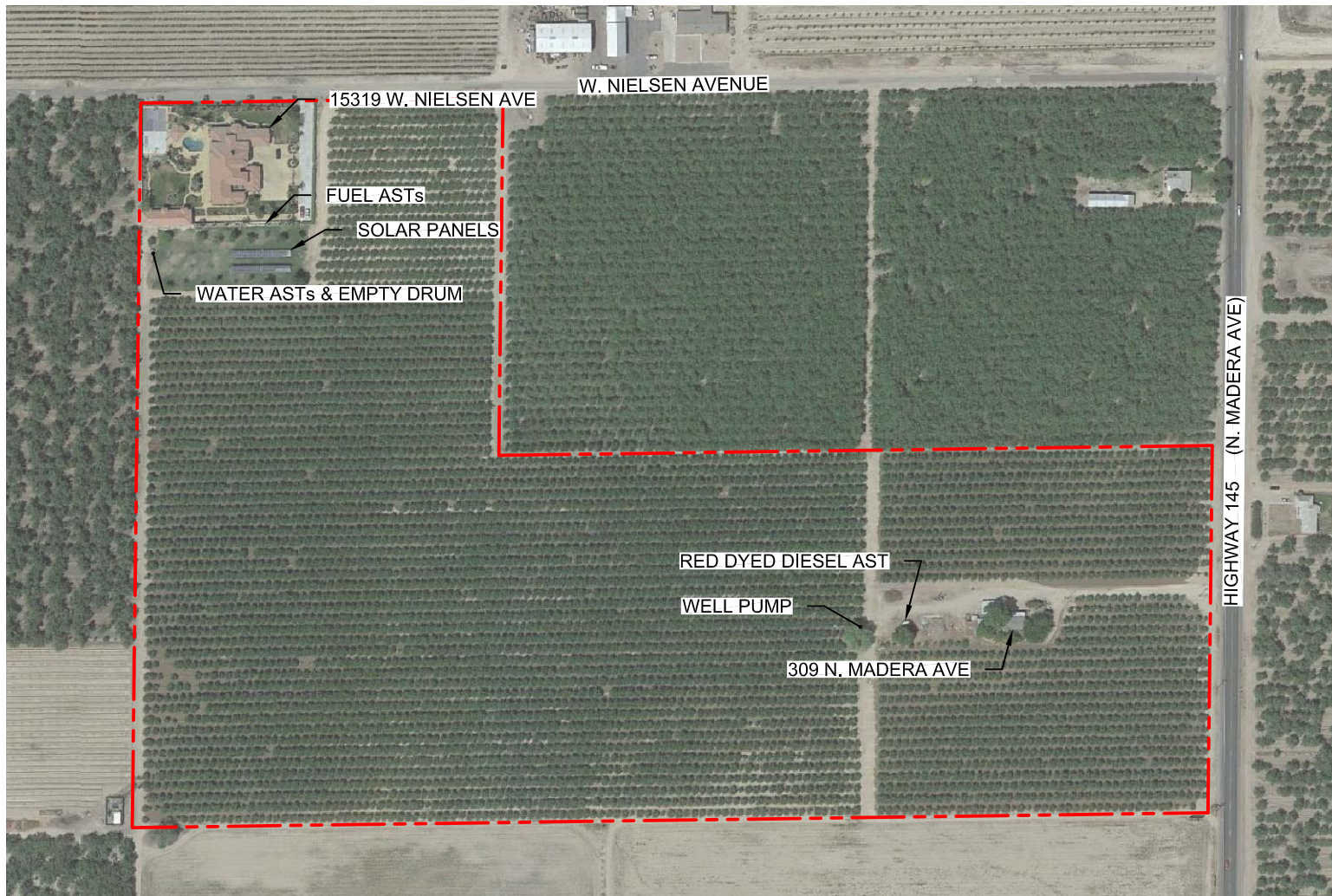
SOURCE: USGS
TOPOGRAPHIC MAPS

VICINITY MAP
ORCHARDS AT GILL ESTATES
HIGHWAY 145 & NIELSEN AVENUE
KERMAN, CALIFORNIA

FIGURE

1

NTS



PROJECT:
240050

DATE:
2/27/24

SOURCE:
GOOGLE EARTH

APPROVED BY:
LC

SITE MAP
ORCHARDS AT GILL ESTATES
HIGHWAY 145 & NIELSEN AVENUE
Kerman, California

FIGURE

2

APPENDIX A

SITE PHOTOGRAPHS



Photo 1



Photo of the residence located on the northwest corner of the Site.



Photo 2



Photo of the residence located on the northwest corner of the Site.



Photo 3



Photo of solar panels located behind the residence located on the northwest corner of the Site.



Photo 4



Photo of ASTs located behind the residence located on the northwest corner of the Site.



Photo 5



Photo of water ASTs located behind the residence located on the northwest corner of the Site.



Photo 6



Photo of empty drum located behind the residence on the northwest corner of the Site, neat the water ASTs.



Photo 7



South facing view from the western edge of the Site.



Photo 8



Photo of well stand located on the eastern portion of the Site.



Photo 9



Photo of "red dyed diesel" AST located near the residence on the southeast portion of the Site.



Photo 10



Photo of sheds, equipment, and grill/smoker located near the residence on the southeast portion of the Site.



Photo 11



Photo of the residence on the southeast portion of the Site.



Photo 12



West facing view from the southern edge of the Site.



Photo 13



Photo of well pump and stand located west of the residence on the southeastern portion of the Site.



Photo 14



Photo of fungicide bottle located near the well pump and stand west of the residence on the southeastern portion of the Site.



Photo 15



Photo of pole-mounted transformer located near the residence on the northwestern corner of the Site.



Photo 16



Photo of pole-mounted transformer located along Madera Avenue.



Photo 17



Photo of pole-mounted transformer located near the residence on the southeast portion off the Site.

APPENDIX B

USER PROVIDED INFORMATION



GEOTECHNICAL & ENVIRONMENTAL ENGINEERING — CONSTRUCTION TESTING & INSPECTION

USER-PROVIDED INFORMATION

Per ASTM Practice E 1527-13

The provision of the following is a requirement to qualify for the various protections provided the innocent landowner, or contiguous property owner under CERCLA. This information should be provided to the best of the user's (client) knowledge. Incomplete information can result in an EPA determination if the report does not satisfy "all appropriate inquiry."

Phase I ESA Information

Property Name & Address: Orchards at Gill Estates
APN 020-120-03S & 020-120-06 County of Fresno
Kerman, CA

Property Type: Agricultural with residential homes

Type of Property Transaction: Tentative Map, Rezone, General Plan Amendment

Site Contact: Jay Gill

User Name(s): Jay Gill

Company: _____

Title: Owner

Signature: 

Date: 1/23/24

The following information is required of the user under the November 1, 2005 "All Appropriate Inquiries (AAI) Rule.

Enclosure: ASTM X.3 Questionnaire

CORPORATE OFFICE — 4539 N. Brawley Avenue #108, Fresno, CA 93722 — P 559.276.9311 — F 559.276.9344

VISALIA OFFICE — 151 S. Dunworth Avenue, Visalia, CA 93292 — P 559.732.0200 — F 559.732.0830

MERCED OFFICE — 2345 Jetway Drive, Atwater, CA 95301 — P 209.384.9300 — F 209.384.0891

www.technicon.net



X3. USER QUESTIONNAIRE INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*³⁵ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),³⁶ the user must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

None to my knowledge.

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

None to my knowledge.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the user of this ESA do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

None to my knowledge.

More on Reverse Side >>

³⁵ *Landowner Liability Protections*, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("Common Elements" Guide) issued on March 6, 2003.

³⁶ P.L. 107-118.

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Yes the purchase price being paid for the *property* reasonably reflect the fair market value of the *property*.

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

- (a.) Do you know the past uses of the *property*?
- (b.) Do you know of specific chemicals that are present or once were present at the *property*?
- (c.) Do you know of spills or other chemical releases that have taken place at the *property*?
- (d.) Do you know of any environmental cleanups that have taken place at the *property*?

Property has been agricultural land

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the user of this ESA, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

None to my knowledge.

X3.1 In addition, certain information should be collected, if available, and provided to the *environmental professional* selected to conduct the Phase I. This information is intended to assist the *environmental professional* but is not necessarily required to qualify for one of the LLPs. The information includes:

- (a) the reason why the Phase I is required,
- (b) the type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc.,
- (c) the complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful),
- (d) the scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527 are to be considered),
- (e) identification of all parties who will rely on the Phase I *report*,
- (f) identification of the site contact and how the contact can be reached,
- (g) any special terms and conditions which must be agreed upon by the *environmental professional*, and
- (h) any other knowledge or experience with the *property* that may be pertinent to the *environmental professional* (for example, copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition).

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This document is an excerpt of E 1527-05; Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, which is under the jurisdiction of ASTM Committee E50 on Environmental Assessments and is the direct responsibility of Subcommittee E50.02 on Commercial Real Estate Transactions. This questionnaire represents only Appendix X3 of Practice E 1527-05 and should not be construed as being the complete standard. It is necessary to refer to the full standard prior to using this questionnaire. For the complete standard, or to order additional copies of this questionnaire, contact ASTM Customer Service at 610/832-9595.

APPENDIX C

DATABASE SEARCH INFORMATION



Government Records Report | 2024

Order Number: 94363

Report Generated: 01/23/2024

Project Name: Orchards at Gill Estates

Project Number: 240050

240050 Orchards at Gill Estates
W Nielsen Ave & CA-145
Kerman, CA 93630

with [EnviroSite Atlas](#)

Contact us at:
(866) 211-2028
envirositecorp.com

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-21 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

240050 Orchards at Gill Estates
W Nielsen Ave & CA-145
Kerman, CA 93630

COORDINATES:

Latitude (North):	36.739905 - 36°44'23.7"
Longitude (West):	-120.064101 - -120°3'50.8"
Universal Transverse Mercator:	Zone 10N
UTM X (Meters):	762144.67
UTM Y (Meters):	4070039.47
State Plane Coordinates:	0404 - California Zone 4 (US Survey Feet)
X Coordinate (Feet):	6249883.495 E
Y Coordinate (Feet):	2154202.119 N

ELEVATION:

Elevation:	223 ft. above sea level
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USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 36120-F1 Kerman, CA
Most Recent Revision: 2015

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
1	ELANORA VALLANDINGHAM	447 NO. MADERA AVE	HIST-UST-CA	Higher	ENE / 0.060 mi., 320 ft.
2	PAT-APIARIES BLAIR-APIARIES JAY R...	15175 W NIELSEN 15175 W...	CUPA_FRESNO COUNTY - CA, HAZNET - CA, HI...	Higher	NNE / 0.075 mi., 396 ft.
3	KRISTEN HOLLAND	204 N DEL NORTE AVE	ECHO, FRS, HWG - CA, RCRA_NONGEN	Lower	SW / 0.113 mi., 597 ft.
4	KERMAN PROPOSED ELEMENTARY SC...	NORTHWEST CORNER OF WHITE...	GALEPA SITES - CA, ENVIROSTOR - CA, NFA - C...	Lower	SSW / 0.140 mi., 737 ft.
5	KERMAN ELEMENTARY SCHOOL MAST...	NORTHWEST CORNER OF WHITE...	GALEPA SITES - CA	Higher	ESE / 0.145 mi., 768 ft.
6	Kerman Unified District Office	15288 CALIFORNIA 180	GALEPA SITES - CA, CIWQS - CA, NPDES - CA, ...	Lower	S / 0.220 mi., 1162 ft.
A7	7-ELEVEN 37960 ARCO STORE #361...	15000 W WHITESBRIDGE AVE...	ALT FUELING, CALEPA SITES - CA, CUPA_FRES...	Lower	SE / 0.231 mi., 1220 ft.
A8	SAN JOAQUIN VALLEY RAILROAD	APN 023 010 17U STATE RTE...	HAZNET - CA, HWG - CA	Lower	SE / 0.249 mi., 1316 ft.
9	O'REILLY AUTO PARTS #3921 CSK A...	15196 W WHITESBRIDGE AVE...	GALEPA SITES - CA, CUPA_FRESNO COUNTY - ...	Lower	SSE / 0.250 mi., 1320 ft.
A10	ARCO (BEACON) #618	15000 WHITES BRIDGE W	GALEPA SITES - CA, EPA LUST, FRS, LUST-REG...	Lower	SE / 0.251 mi., 1325 ft.
A11	Dreams Recycling LLC	15057 W WHITESBRIDGE AVE	SWRCY - CA	Lower	SSE / 0.254 mi., 1343 ft.
12	AUTOZONE #5324 AUTOZONE KERMAN	14923 WHITESBRIDGE RD 1...	CIWQS - CA, ECHO, FRS, HAZNET - CA, HWG - ...	Lower	SE / 0.265 mi., 1402 ft.
13	COUNTY OF FRESNO GENUINE PART...	187 S MADERA AVE	CUPA_FRESNO COUNTY - CA, ECHO, HWG - CA...	Lower	SSE / 0.393 mi., 2073 ft.
14	CENTRAL VALLEY DIST HELENA CHEM...	36.734861, -120.072935	PFAS INDUSTRY	Lower	WSW / 0.420 mi., 2218...

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was not listed in any of the databases searched by EnviroSite Corporation.

SEARCH RESULTS:**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

EPA UST: Facilities listed in the EPA UST Finder database **1 SITE FOUND WITHIN .25 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42

HIST UST - CA: Historical UST listing **2 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
1	ELANORA VALLANDINGHAM	447 NO. MADERA AVE	ENE / 0.060 mi., 320 ft.	29
2	PAT APIARIES BLAIR APIARIES JAY RAY BLAIR	15175 W NIELSEN 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

UST - CA: Listing of active underground storage tank facilities **1 SITE FOUND WITHIN .25 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A10	ARCO (BEACON) #618	15000 WHITES BRIDGE W	SE / 0.251 mi., 1325 ft.	75

LUST REG 5 - CA: Leaking underground storage tanks in Region 5: Modoc Shasta Lassen Plumas Butte Glen Colusa Lake Sutter Yuba Sierra Nevada Placer Yolo Napa (Northeast) Solano (West) Sacramento El Dorado Amador Calaveras San Joaquin Contra Costa (East) Stanislaus Toulumne Merced Mariposa Madera Kings Fresno Tulare Kern (Very small portions of San Benito and San Luis Obispo) counties **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A10	ARCO (BEACON) #618 - ID: T0601900027	15000 WHITES BRIDGE W Status: Completed - Case Closed	SE / 0.251 mi., 1325 ft. Date: 2001-07-12	75

FEDERAL RCRA GENERATORS LIST

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators **3 SITES FOUND WITHIN .25 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
3	KRISTEN HOLLAND - ID: CAC003178909	204 N DEL NORTE AVE Status: No Violation/Inspections	SW / 0.113 mi., 597 ft. Date: N/A	30

FEDERAL RCRA GENERATORS LIST (cont.)RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators **3 SITES FOUND WITHIN .25 MILE****LOWER ELEVATION (cont.)**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
	- ID: CAL000418938	Status: No Violation/Inspections	Date: N/A	
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMEN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65
	- ID: CAL000393420	Status: No Violation/Inspections	Date: N/A	

STATE- AND TRIBAL - EQUIVALENT CERCLISENVIROSTOR - CA: Department of Toxic Substances Controls **1 SITE FOUND WITHIN 1 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
4	KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES KERMAN PROPOSED ELEM	NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES	SSW / 0.140 mi., 737 ft.	36
	- ID: 60002320	Status: No Further Action	Date: Cleanup Date 2016- 10-07	

STATE RCRA GENERATORS LISTHWG - CA: Hazardous waste generator listing **5 SITES FOUND WITHIN .25 MILE****EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
2	PAT APIARIES BLAIR APIARIES JAY RAY BLAIR	15175 W NIELSEN 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
3	KRISTEN HOLLAND	204 N DEL NORTE AVE	SW / 0.113 mi., 597 ft.	30
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
A8	SAN JOAQUIN VALLEY RAILROAD	APN 023 010 17U/STATE RTE 145	SE / 0.249 mi., 1316 ft.	64
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMEN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITESSCH - CA: Listing of possible hazardous material contamination sites on existing school properties **1 SITE FOUND WITHIN .25 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
4	KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES KERMAN PROPOSED ELEM	NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES	SSW / 0.140 mi., 737 ft.	36

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITESSWRCY - CA: Listing of facilities which perform recycled material processing activities **4 SITES FOUND WITHIN .5 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMAN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65
A11	Dreams Recycling LLC	15057 W WHITESBRIDGE AVE	SSE / 0.254 mi., 1343 ft.	79
12	AUTOZONE #5324 AUTOZONE KERMAN	14923 WHITESBRIDGE RD 14923 W WHITESBRIDGE RD	SE / 0.265 mi., 1402 ft.	80
13	COUNTY OF FRESNO GENUINE PARTS COMPANY DBA SMITH AUTO PARTS SMITH AUTO PARTS	187 S MADERA AVE	SSE / 0.393 mi., 2073 ft.	90

OTHER ASCERTAINABLE RECORDSALT FUELING: Alternative Fueling Stations by fuel type. **1 SITE FOUND WITHIN .25 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest) **2 SITES FOUND WITHIN .25 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMAN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65

PFAS INDUSTRY: List of Industries potentially handling PFAS **1 SITE FOUND WITHIN .5 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
14	CENTRAL VALLEY DIST/ HELENA CHEMICAL CO RON BROCK RONALD BROCK	36.734861, -120.072935	WSW / 0.420 mi., 2218 ft.	98

OTHER ASCERTAINABLE RECORDS (cont.)

CALEPA SITES - CA: CalEPA Regulated Sites from the Certified Unified Program Agencies (CUPA). **5 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
5	KERMAN ELEMENTARY SCHOOL MASTER PLAN	NORTHWEST CORNER OF WHITESBRIDGE ROAD AND MADERA AVENUE	ESE / 0.145 mi., 768 ft.	40

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
4	KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES KERMAN PROPOSED ELEM	NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES	SSW / 0.140 mi., 737 ft.	36
6	Kerman Unified District Office	15288 CALIFORNIA 180	S / 0.220 mi., 1162 ft.	40
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMAN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65

CUPA FRESNO COUNTY - CA: Listing of the Fresno County Certified Unified Program Agency's hazardous material program sites **3 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
2	PAT APIARIES BLAIR APIARIES JAY RAY BLAIR	15175 W NIELSEN 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMAN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65

HAZNET - CA: Listing of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters **4 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
2	PAT APIARIES BLAIR APIARIES JAY RAY BLAIR	15175 W NIELSEN 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42
A8	SAN JOAQUIN VALLEY RAILROAD	APN 023 010 17U/STATE RTE 145	SE / 0.249 mi., 1316 ft.	64
9	O'REILLY AUTO PARTS #3921 CSK AUTO DBA O'REILLY AUTO PARTS #3921 KERMAN SHOPPING PLAZA LLC	15196 W WHITESBRIDGE AVE 15196 W WHITESBRIDGE AVE NW CORNER	SSE / 0.250 mi., 1320 ft.	65

OTHER ASCERTAINABLE RECORDS (cont.)

HIST HAZNET - CA: List of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters that are no longer in current agency list.

1 SITE FOUND WITHIN .25 MILE**LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A7	7 ELEVEN 37960 ARCO STORE #3618 7-ELEVEN INC. STORE# 37960	15000 W WHITESBRIDGE AVE 15000 W WHITESBRIDGE AVE NW CORNER	SE / 0.231 mi., 1220 ft.	42

NFA - CA: No further action cleanup sites listing **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
4	KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES KERMAN PROPOSED ELEM	NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES	SSW / 0.140 mi., 737 ft.	36

Following sites were unable to be mapped.

<u>SITE NAME:</u>	<u>ADDRESS, CITY, ZIP:</u>	<u>DATABASE(S):</u>
ANDERSON COALINGA	NW 1/4SEC 8T20SR15EMDB&M	HIST LDS - CA
COALINGA	SECTION 14 T20S R14E MDB&M	LDS - CA
COALINGA, CMS	SECTION 31 T19S R15E MDB&M	HIST LDS - CA
COALINGA, CMS-AZTEC	SEC 31 T19S R15E MDB&M	HIST LDS - CA
COALINGA, PENN-ZIER	SEC 1 T20S R14E MDB&M	HIST LDS - CA
COALINGA, SEC 2	SECTION 2 T19S R15E MDB&M	CIWQS - CA, HIST LDS - CA
COALINGA, SEC 26	SEC 26 T19S RISE MDB&M	HIST LDS - CA
Coalinga, Section 35A COALINGA, (SEC 35)	Sec 35 T19S R15E Mdb&M	HIST LDS - CA, RFR - CA
JACALITOS	SEC 27 T21S R15E MDB&M	CIWQS - CA, LDS - CA
KERMAN CITY DUMPSITE #1	AMERICAN AVENUE, KERMAN 93630	ENVIROSTOR - CA, HIST CORTESE - CA
KERMAN CITY DUMPSITE #2	NEAR LASSEN & JENSEN, KERMAN 93630	ENVIROSTOR - CA, HIST CORTESE - CA
KERMAN R O P AUTO TECH	CLINTON MADERA AVE, KERMAN 93630	HAZNET - CA, HWG - CA
MT. CAMPBELL RIFLE RANGE (J09CA087600)	N/R	HIST MCS - CA, MCS - CA
PG&E GTP T-1257 Helm	S. Madera Ave, HELM 93630	MANIFEST EPA
PLEASANT VALLEY, GATCHELL	SECTION 20 T20S R16E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY FULLER	SW1/4NE1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY HAMILTON (2)	N1/2SE1/4NW1/4SEC13T15SR17E	CIWQS - CA, LDS - CA
Raisin City Oil Field, Surfluh Lease	SE 1/4 NE 1/4 Section ..., Kerman 93630	HIST LDS - CA
RAISIN CITY VARIOUS LEASES	T15S R17E & 18E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE SUNSET	SW1/4SEC11 T15S R17E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE-SUNSET 02	SW1/4NW1/4 SEC19 T15S R17E	CIWQS - CA, LDS - CA
RAISIN CITY, EAGLE-SUNSET 03	SEC 19 T15S R18E MDB&M	CIWQS - CA, LDS - CA
Raisin City, Hamilton	Sec 13 T15S R18 Mdb&M	CIWQS - CA, CIWQS 2 - CA, HIST LDS - CA
RAISIN CITY, HAMILTON	Temblor Petro - SEC 13 T15S..., Kerman	OIL & GAS CLEANUP - CA
RAISIN CITY, HAMILTON	SE1/2NW1/4SEC13T15SR17EMD	CIWQS - CA, LDS - CA
RAISIN CITY, NCC	SE1/4 SE1/4 SEC10 T15SR17E	CIWQS - CA, LDS - CA
RAISIN CITY, PROPERTIES, INC	SEC 18 T15S R18E MDB&M	CIWQS - CA, LDS - CA
RAISIN CITY, RAISIN CITY A	SE1/4NW1/4SEC19T15SR18EMD	CIWQS - CA, LDS - CA
RAISIN CITY, SURFLUH (08)	SE1/4NE1/4SEC14T15SR17EMD	LDS - CA
Waste Recovery West, Inc.	7220 NW O Neil Hwy, Kerman 93630	HAULERS - CA

DATABASE(S) WITH NO MAPPED SITES:**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSDF

Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

RCRA_TSDF

Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS

ASTs at Bulk Petroleum Terminals

FEMA UST

FEMA Underground Storage Tanks

HIST INDIAN UST R6

Historical Underground Storage Tanks on Indian Land in EPA Region 6

HIST INDIAN UST R7

Historical Underground Storage Tanks on Indian Land in EPA Region 7

INDIAN UST R1

Underground Storage Tanks on Indian Land in EPA Region 1

INDIAN UST R10

Underground Storage Tanks on Indian Land in EPA Region 10

INDIAN UST R2

Underground Storage Tanks on Indian Land in EPA Region 2

INDIAN UST R4

Underground Storage Tanks on Indian Land in EPA Region 4

INDIAN UST R5

Underground Storage Tanks on Indian Land in EPA Region 5

INDIAN UST R6

Underground Storage Tanks on Indian Land in EPA Region 6

INDIAN UST R7

Underground Storage Tanks on Indian Land in EPA Region 7

INDIAN UST R8

Underground Storage Tanks on Indian Land in EPA Region 8

INDIAN UST R9

Underground Storage Tanks on Indian Land in EPA Region 9

AST - CA

Aboveground storage tanks

AST_KERN COUNTY - CA

Kern County Aboveground Storage Tanks Facilities

AST_ORANGE COUNTY - CA

Orange County Aboveground Storage Tanks

AST_PLACER COUNTY - CA

Placer County Aboveground Storage Tanks

AST_YOLO COUNTY - CA

Yolo County Above Ground Storage Tanks

CLOSED UST_VENTURA COUNTY - CA

Ventura County Closed Underground Storage Tanks

FID UST - CA

Facility Inventory Database

HIST AST - CA

Historical Aboveground Storage Tanks

HIST UST_EL SEGUNDO CITY - CA

Historical City of El Segundo Underground Storage Tanks

HIST UST_KERN COUNTY - CA

Historical Kern County Underground Storage Tanks

HIST UST_SUTTER COUNTY - CA

Historical Sutter County Underground Storage Tank List

TANKS_CONTRA COSTA COUNTY - CA

Contra Costa County Aboveground Storage Tanks

UST_ALAMEDA COUNTY - CA

Alameda County Underground Storage Tanks

UST_CITY OF LONG BEACH - CA

City of Long Beach Underground Storage Tanks

UST_CITY OF TORRANCE - CA

City of Torrance Underground Storage Tanks

UST_EL SEGUNDO CITY - CA

City of El Segundo Underground Storage Tanks

UST_KERN COUNTY - CA

Kern County Underground Storage Tanks

UST_MARIN COUNTY - CA

Marin County Underground Storage Tanks

UST_MENDOCINO COUNTY - CA

Mendocino County Underground Storage Tanks

UST_NAPA COUNTY - CA

Underground storage tank sites located in Napa county.

UST_ORANGE COUNTY - CA

Orange County Underground Storage Tanks

UST_PLACER COUNTY - CA

Placer County Underground Storage Tanks

UST_RIVERSIDE COUNTY - CA

Riverside County Underground Storage Tanks

UST_SAN FRANCISCO COUNTY - CA

San Francisco County Underground Storage Tanks

UST_SAN JOAQUIN COUNTY - CA

San Joaquin County Underground Storage Tanks

UST_SANTA CLARA COUNTY - CA

Santa Clara County Underground Storage Tanks

UST_SOLANO COUNTY - CA

Solano County Underground Storage Tanks

UST_SUTTER COUNTY - CA

Sutter County Underground Storage Tanks

UST_YOLO COUNTY - CA

Yolo County Underground Storage Tanks

FEDERAL CERCLIS LIST

CERCLIS NFRAP

Comprehensive Environmental Response Compensation and Liability Act
No Further Remedial Action Planned

CERCLIS-HIST

Comprehensive Environmental Response Compensation and Liability Act

EPA SAA

EPA Superfund Alternative Approach

FEDERAL FACILITY

Federal Facility sites

SEMS_8R_ACTIVE SITES

Sites on SEMS Active Site Inventory

FEDERAL CERCLIS LIST (cont.)

SEMS_8R_ARCHIVED SITES

Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS

Hazardous Waste Corrective Action

HIST CORRACTS 2

Historical Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL

Delisted National Priority List

DELISTED PROPOSED NPL

Delisted proposed National Priority List

SEMS_DELETED NPL

Sites Deleted from National Priorities List

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP

EPA Landfill Methane Outreach Project Database

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

HIST INDIAN LUST R4

Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4

HIST INDIAN LUST R8

Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8

INDIAN LUST R1

Leaking Underground Storage Tanks on Indian Land in EPA Region 1

INDIAN LUST R10

Leaking Underground Storage Tanks on Indian Land in EPA Region 10

INDIAN LUST R2

Leaking Underground Storage Tanks on Indian Land in EPA Region 2

INDIAN LUST R4

Leaking Underground Storage Tanks on Indian Land in EPA Region 4

INDIAN LUST R5

Leaking Underground Storage Tanks on Indian Land in EPA Region 5

INDIAN LUST R6

Leaking Underground Storage Tanks on Indian Land in EPA Region 6

INDIAN LUST R7

Leaking Underground Storage Tanks on Indian Land in EPA Region 7

INDIAN LUST R8

Leaking Underground Storage Tanks on Indian Land in EPA Region 8

INDIAN LUST R9

Leaking Underground Storage Tanks on Indian Land in EPA Region 9

HIST LUST_SONOMA COUNTY - CA

Historical Sonoma County Leaking Underground Storage Tanks

LUFT_ALAMEDA COUNTY - CA

Alameda County Leaking Underground Fuel Tanks

LUST ORANGE COUNTY - CA

Orange County Leaking Underground Storage Tanks

LUST REG 1 - CA

Region 1 Leaking Underground Storage Tanks

LUST REG 2 - CA

Region 2 Leaking Underground Storage Tanks

LUST REG 3 - CA

Region 3 Leaking Underground Storage Tanks

LUST REG 4 - CA

Region 4 Leaking Underground Storage Tanks

LUST REG 6 - CA

Region 6 Leaking Underground Storage Tanks

LUST REG 7 - CA

Region 7 Leaking Underground Storage Tanks

LUST REG 8 - CA

Region 8 Leaking Underground Storage Tanks

LUST REG 9 - CA

Region 9 Leaking Underground Storage Tanks

LUST_HAZMAT_YOLO COUNTY - CA

Yolo County Leaking Underground Storage tanks

LUST_KERN COUNTY - CA

Kern County leaking underground tank sites

LUST_RIVERSIDE COUNTY - CA

Riverside County Leaking Underground Storage Tanks

LUST_SAN FRANCISCO COUNTY - CA

listing of leaking underground storage tanks

LUST_SAN MATEO COUNTY - CA

San Mateo County Leaking Underground Storage Tanks

LUST_SOLANO COUNTY - CA

Solano County Leaking Underground Storage Tanks

LUST_SONOMA COUNTY - CA

Sonoma County Leaking Underground Storage Tanks

LUST_SUTTER COUNTY - CA

Sutter County Leaking Underground Storage Tanks

LUST_VENTURA COUNTY - CA

Ventura County Leaking Underground Storage Tanks

SLIC REG 1 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 2 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 3 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 4 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 5 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 6 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 7 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 8 - CA

Spills Leaks Investigation & Cleanup Program

SLIC REG 9 - CA

Spills Leaks Investigation & Cleanup Program

SLIC_ALAMEDA COUNTY - CA

Alameda County Spills Leaks Investigation & Cleanup

FEDERAL ERNS LIST

ERNS

Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C

Engineering Controls

FED I C

Institutional Controls

RCRA IC_EC

RCRA sites with Institutional and Engineering Controls

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG

Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators

HIST RCRA_LQG

Historical Resource Conservation and Recovery Act_Large Quantity Generators

HIST RCRA_NONGEN

Historical Resource Conservation and Recovery Act_Non Generators

HIST RCRA_SQG

Historical Resource Conservation and Recovery Act_Small Quantity Generators

RCRA_LQG

Resource Conservation and Recovery Act_Large Quantity Generators

RCRA_SQG

Resource Conservation and Recovery Act_Small Quantity Generators

RCRA_VSQG

Resource Conservation and Recovery Act_Very Small Quantity Generator

FEDERAL NPL SITE LIST

NPL

National Priority List

NPL EPA R1 GIS

GIS for EPA Region 1 NPL

NPL EPA R3 GIS

GIS for EPA Region 3 NPL

NPL EPA R6 GIS

GIS for EPA Region 6 NPL

NPL EPA R8 GIS

GIS for EPA Region 8 NPL

NPL EPA R9 GIS

GIS for EPA Region 9 NPL

PART NPL

Part National Priority List

PROPOSED NPL

Proposed National Priority List

SEMS_FINAL NPL

Sites included on the Final National Priorities List

SEMS_PROPOSED NPL

Sites Proposed to be Added to the National Priorities List

STATE- AND TRIBAL - EQUIVALENT CERCLIS

HIST TOXIC PITS - CA

Historical Toxic Pits Cleanup Act

OIL & GAS CLEANUP - CA

SWRCB Oil & Gas Cleanup Sites

SWRCB CLEANUP - CA

SWRCB Cleanup Program

SWRCB NON_CASE - CA

SWRCB Non-Case Sites

TOXIC PITS - CA

Toxic Pits Cleanup Act

STATE- AND TRIBAL - EQUIVALENT NPL

HIST RESPONSE - CA

Historical State Response Sites

RESPONSE - CA

State Response Sites

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SWF/LF - CA

Historical Solid Waste Information System

SWF/LF - CA

Solid Waste Information System

STATE RCRA GENERATORS LIST

HWG_YOLO COUNTY - CA

State Hazardous Waste Generators

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS

Tribal Brownfields

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - CA

Voluntary Cleanup Program sites

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES

EPA ACRES Brownfields

FED BROWNFIELDS

Federal Brownfields

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL

DOJ Clandestine Drug Labs

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)

US HIST CDL	Historical Clandestine Drug Labs
CALARP_KERN COUNTY - CA	HazMat Chemical Facility List
CASE LIST_SAN DIEGO COUNTY - CA	San Diego County Environmental Case List
CDL - CA	Meth and Clandestine Drug Labs
CORRECTIVE ACTION_RIVERSIDE COUNTY - CA	Riverside County Corrective Action Sites
CS_NAPA COUNTY - CA	Contaminated Sites
CS_PLACER COUNTY - CA	Placer County Cleanup Sites
SITE LIST_CONTRA COSTA COUNTY - CA	Contra Costa County Sites List
TOXIC SITE_SACRAMENTO COUNTY - CA	Sacramento County Toxic Site Cleanup list

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
CHMIRS - CA	California Hazardous Material Incident Report System
HIST CHMIRS - CA	California Hazardous Material Incident Report System
INDUSTRIAL CLEANUP_ORANGE COUNTY - CA	Petroleum and non-petroleum industrial spills
SML_LOS ANGELES COUNTY - CA	Los Angeles County Emergency Response session spills

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information
DEED - CA	Deeds
HIST LIENS - CA	Historical Liens
LIENS - CA	Liens

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites
HAULERS - CA	Tire Haulers
LF_SAN DIEGO COUNTY - CA	San Diego County Landfills
SWF_LOS ANGELES COUNTY - CA	Los Angeles County solid waste facilities

OTHER ASCERTAINABLE RECORDS

AFS	Air Facility Systems
ARENAS	ARENAS
ARENAS 2	ARENAS (additional)
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
CHURCHES	CHURCHES
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
COLLEGES	COLLEGES
COLLEGES 2	COLLEGES 2
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DAYCARE	DAYCARE
DEBRIS EPA LF	EPA Disaster Debris Landfill Sites
DEBRIS EPA SWRCY	EPA Disaster Debris Recovery Sites
DOCKET CRIM PROS 2	Additional Docket criminal prosecution cases
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities

OTHER ASCERTAINABLE RECORDS (cont.)

FEDLAND	Federal Lands
FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
GOV MANSIONS	Governors Mansions
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities
HIST SSTs	Historical Section 7 Tracking Systems
HOSPITALS	HOSPITALS
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INACTIVE PCS	Inactive Permit Compliance Facilities
INDIAN RESERVATION	American Indian Lands
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MGP	Manufactured Gas Plant Sites
MINE OPERATIONS	Mines list from USGS
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
NURSING HOMES	NURSING HOMES
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
PFAS FED SITES	PFAS Federal Sites
PFAS MANIFEST	PFAS Manifest
PFAS NPL	PFAS NPL Sites
PFAS PROD	PFAS Production
PFAS SPILLS	PFAS Spill Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
PFAS WQP	PFAS Water Quality Portal
PRISONS	PRISONS
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTs	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion

OTHER ASCERTAINABLE RECORDS (cont.)

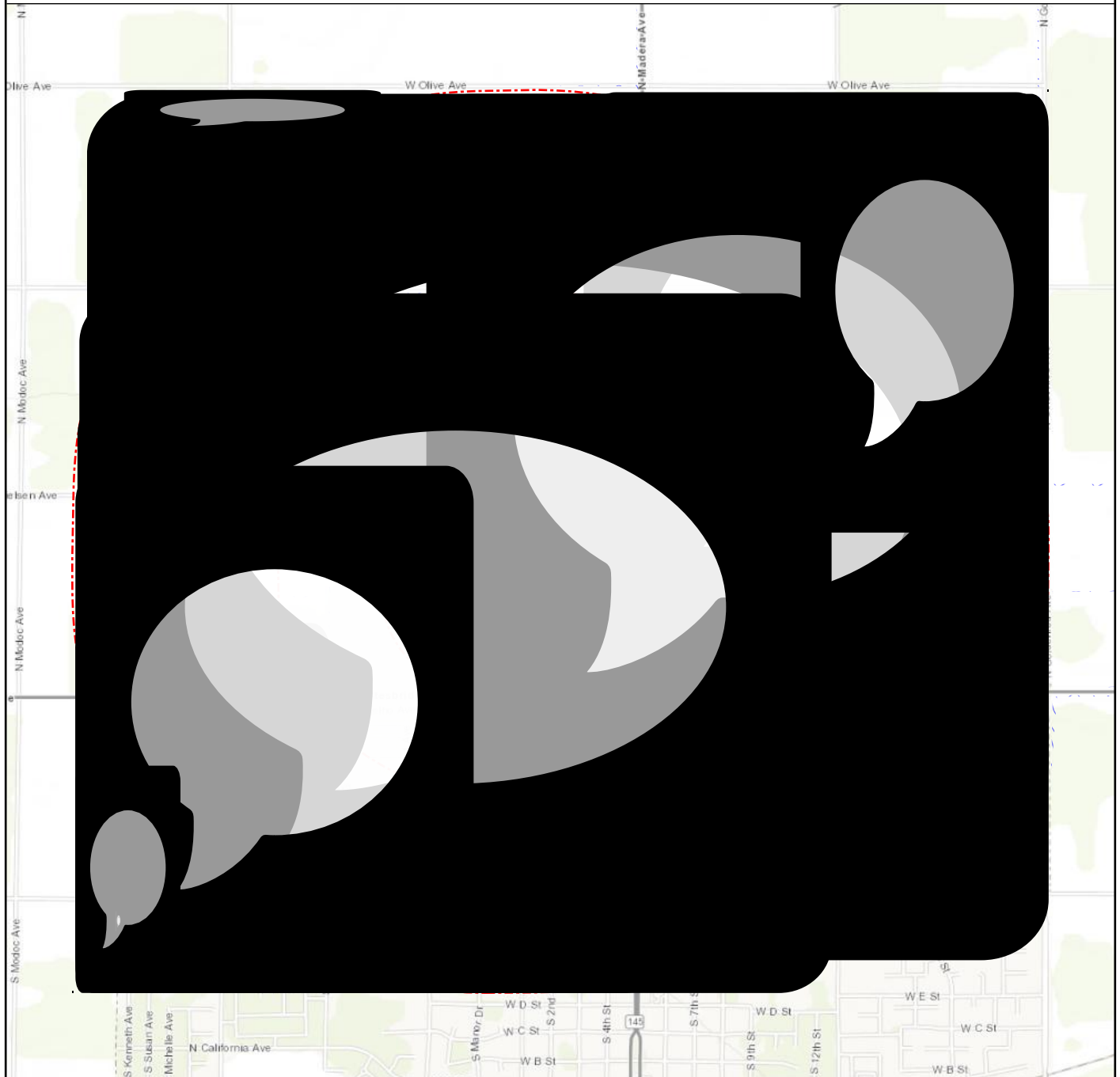
AOC_SAN GABRIEL VALLEY - CA	San Gabriel Valley Superfund
BOND EXPENDITURE PLAN - CA	Bond Expenditure Plan
BP HW OUT_VENTURA COUNTY - CA	Ventura County Business Plan Hazardous Waste Producers and Operating Underground Tanks
BUSINESS INVENTORY_SAN MATEO COUNTY - CA	San Mateo County List of Underground Storage Tanks, Hazardous Materials, Business Plans, and Hazardous Waste Generators
CIWQS - CA	California Integrated Water Quality System
CIWQS 2 - CA	California Integrated Water Quality System
CORTESE - CA	The Hazardous Waste and Substances Sites List
CUPA_BUTTE COUNTY - CA	Butte County Certified Unified Program Agency
CUPA_PLACER COUNTY - CA	CUPA County Certified Unified Program Agency
DAYCARE - CA	Daycares
DRYCLEANERS - CA	Drycleaners
DRYCLEANERS_AMADOR COUNTY - CA	Amador County Drycleaners
DRYCLEANERS_ANTELOPE VALLEY - CA	Antelope Valley Drycleaners
DRYCLEANERS_BAY AREA - CA	Bay Area Drycleaners
DRYCLEANERS_BUTTE COUNTY - CA	Butte County Drycleaners
DRYCLEANERS_CALAVERAS COUNTY - CA	Calaveras County Drycleaners
DRYCLEANERS_COLUSA COUNTY - CA	Colusa County Drycleaners
DRYCLEANERS_EASTERN KERN COUNTY - CA	Eastern Kern County Drycleaners
DRYCLEANERS_EL DORADO COUNTY - CA	El Dorado County Drycleaners
DRYCLEANERS_FEATHER RIVER - CA	Feather River Drycleaners
DRYCLEANERS_GLENN COUNTY - CA	Glenn County Drycleaners
DRYCLEANERS_GREAT BASIN UNIFIED - CA	Great Basin Unified Drycleaners
DRYCLEANERS_IMPERIAL COUNTY - CA	Imperial County Drycleaners
DRYCLEANERS_LAKE COUNTY - CA	Lake County Drycleaners
DRYCLEANERS_LASSEN COUNTY - CA	Lassen County Drycleaners
DRYCLEANERS_MENDOCINO COUNTY - CA	Mendocino County Drycleaners
DRYCLEANERS_MOJAVE DESERT - CA	Mojave Desert Drycleaners
DRYCLEANERS_MONTEREY BAY - CA	Monterey Bay Drycleaners
DRYCLEANERS_NORTH COAST UNIFIED - CA	North Coast Unified Drycleaners
DRYCLEANERS_NORTHERN SIERRA - CA	Northern Sierra Drycleaners
DRYCLEANERS_NORTHERN SONOMA COUNTY - CA	Northern Sonoma County Drycleaners
DRYCLEANERS_PLACER COUNTY - CA	Placer County Drycleaners
DRYCLEANERS_SACRAMENTO COUNTY - CA	Sacramento County Drycleaners
DRYCLEANERS_SAN DIEGO COUNTY - CA	San Diego County Drycleaners
DRYCLEANERS_SAN JOAQUIN VALLEY - CA	San Joaquin Valley Drycleaners
DRYCLEANERS_SAN LUIS OBISPO - CA	San Luis Obispo Drycleaners
DRYCLEANERS_SANTA BARBARA COUNTY - CA	Santa Barbara Drycleaners
DRYCLEANERS_SHASTA COUNTY - CA	Shasta County Drycleaner
DRYCLEANERS_SISKIYOU COUNTY - CA	Siskiyou County Drycleaners
DRYCLEANERS_SOUTH COAST - CA	South Coast Drycleaners
DRYCLEANERS_TEHAMA COUNTY - CA	Tehama County Drycleaners
DRYCLEANERS_TUOLUMNE COUNTY - CA	Tuolumne County Drycleaners
DRYCLEANERS_VENTURA COUNTY - CA	Ventura County Drycleaners
DRYCLEANERS_YOLO-SOLANO COUNTIES - CA	Yolo and Solano Counties Drycleaners
EMI - CA	Emissions Inventory Data
FA - CA	Financial Assurance
FA 2 - CA	Financial Assurance for Solid Waste Facilities
FIRE AREAS - CA	Fire Perimeters
GCC_SANTA CLARA VALLEY - CA	Santa Clara Valley Groundwater Contamination Cleanups
HAZMAT INCIDENT_CONTRA COSTA COUNTY - CA	Contra Costa County Hazardous Materials Incident list
HAZMAT_CITY OF SAN JOSE - CA	City of San Jose Hazardous Material Facilities
HAZMAT_SACRAMENTO COUNTY - CA	Sacramento County Master Hazardous Materials Facility list

OTHER ASCERTAINABLE RECORDS (cont.)

HAZMAT_SAN BERNARDINO COUNTY - CA	San Bernardino County Hazardous Material Permits
HAZMAT_SAN DIEGO COUNTY - CA	Hazardous Materials Management Division Database
HAZMAT_SANTA CLARA COUNTY - CA	Santa Clara County Hazardous Material Facilities
HAZWASTE_ORANGE COUNTY - CA	Orange County hazardous waste facilities
HIGH FIRE - CA	Fire Hazard Severity Zones
HIST CORTESE - CA	The Historical Hazardous Waste and Substances Sites List
HIST DRYCLEANERS_SAN DIEGO COUNTY - CA	Historical San Diego County Drycleaners
HIST HMS_LOS ANGELES COUNTY - CA	Historical Los Angeles County Street Number List
HIST HWP - CA	Historical EnviroStor Permitted Facilities
HIST LDS - CA	Historical Land Disposal Sites
HIST MCS - CA	Historical Military Cleanup Sites
HIST NFA - CA	Historical No Further Action Sites
HIST SOLVENTS_SANTA CLARA CO - CA	Santa Clara County Historic Solvent Cases
HMS_LOS ANGELES COUNTY - CA	Los Angeles County Street Number List
HWM COMMERCIAL FACILITIES - CA	Hazardous Waste Management Commercial Facilities
HWP - CA	EnviroStor Permitted Facilities
HWT - CA	Hazardous Waste Transporters
LDS - CA	Land Disposal Sites
LOP_SANTA CLARA COUNTY - CA	Santa Clara County Local Oversight Program
MCS - CA	Military Cleanup Sites
MWMP - CA	Medical Waste Management Program
MWMP 2 - CA	Medical Waste Management Program
NFE - CA	Unconfirmed contaminated properties
NPDES - CA	State Wastewater and NPDES Permits
PERCHLORATE 2 - CA	Perchlorate contaminated sites
PFAS - CA	PFAS Site Listing
PFAS DOD - CA	PFAS Site Listing
PFAS GAMA - CA	PFAS GAMA Well Sampling
PROPOSITION 65 - CA	Proposition 65 Records
RFR - CA	Regulated Facility Report
SITES INVENTORY_VENTURA COUNTY - CA	Ventura County Inventory of Closed Illegal Abandoned and Inactive Sites
SMU_SANTA BARBARA COUNTY - CA	Site Mitigation Unit Sites
SWAT - CA	SWAT Reports Summary Data
VCCP_VENTURA COUNTY - CA	Ventura County County Cleanup Program
WDR - CA	Waste Discharge Requirement Sites
WDS - CA	Waste Discharge System
WILDLANDS - CA	Preserves List
WIP - CA	Well Investigation Program
OTHER	
SEISMIC - CA	Seismic Hazards Zonation Program

SUBJECT NAME: 240050 Orchards at Gill Estates
 ADDRESS: W Nielsen Ave & CA-145, Kerman, CA, 93630
 LAT/LONG: 36.739905 / -120.064101

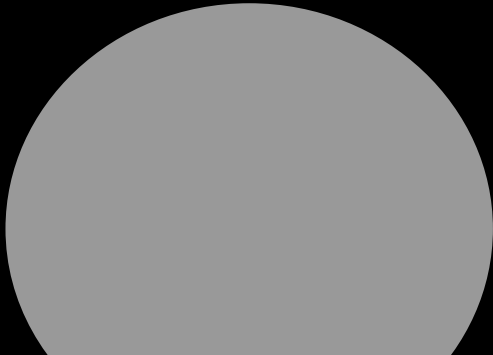
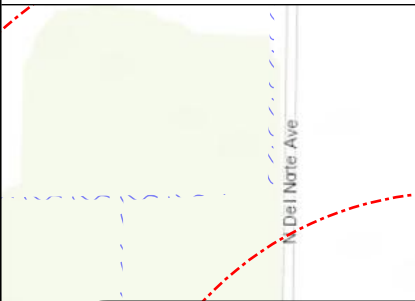
PREPARED FOR: Technicon Engineering Services
 ORDER #: 94363
 REPORT DATE: January 23, 2024



- | | | | |
|------------------------------|-----------------------------------|---------------------------------|------------------------------------|
| ✦ Subject Property | ● Equal/Higher Elevation | ● Lower Elevation | ✕ Area Of Concern (No Data) |
| ⚡ CDC HAZDAT (No Data) | ■ Department of Defense (No Data) | ⚡ DFIRM Floodzone 100 (No Data) | ⚡ DFIRM Floodzone 500 (No Data) |
| 🌿 Federal Lands (No Data) | ≈ FEMA FloodZone 100 (No Data) | ≈ FEMA FloodZone 500 (No Data) | 🔥 Fire Areas (No Data) |
| 🔥 Fire Hazard Zone (No Data) | ■ Historical DOD (No Data) | 🏠 Indian Reservation (No Data) | 🏠 National Priority List (No Data) |
| 📶 NWI | ■ Seismic (No Data) | | |

SUBJECT NAME: 240050 Orchards at Gill Estates
ADDRESS: W Nielsen Ave & CA-145, Kerman, CA, 93630
LAT/LONG: 36.739905 / -120.064101

PREPARED FOR: Technicon Engineering Services
ORDER #: 94363
REPORT DATE: January 23, 2024



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS		0.250	0	0	--	--	--	0
EPA UST		0.250	0	1	--	--	--	1
FEMA UST		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - CA		0.250	0	0	--	--	--	0
AST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
AST_ORANGE COUNTY - CA		0.250	0	0	--	--	--	0
AST_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
AST_YOLO COUNTY - CA		0.250	0	0	--	--	--	0
CLOSED UST_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
FID UST - CA		0.250	0	0	--	--	--	0
HIST AST - CA		0.250	0	0	--	--	--	0
HIST UST - CA		0.250	2	0	--	--	--	2
HIST UST_EL SEGUNDO CITY - CA		0.250	0	0	--	--	--	0
HIST UST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
HIST UST_SUTTER COUNTY - CA		0.250	0	0	--	--	--	0
TANKS_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0
UST - CA		0.250	0	1	--	--	--	1
UST_ALAMEDA COUNTY - CA		0.250	0	0	--	--	--	0
UST_CITY OF LONG BEACH - CA		0.250	0	0	--	--	--	0
UST_CITY OF TORRANCE - CA		0.250	0	0	--	--	--	0
UST_EL SEGUNDO CITY - CA		0.250	0	0	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

UST_KERN COUNTY - CA		0.250	0	0	--	--	--	0
UST_MARIN COUNTY - CA		0.250	0	0	--	--	--	0
UST_MENDOCINO COUNTY - CA		0.250	0	0	--	--	--	0
UST_NAPA COUNTY - CA		0.250	0	0	--	--	--	0
UST_ORANGE COUNTY - CA		0.250	0	0	--	--	--	0
UST_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
UST_RIVERSIDE COUNTY - CA		0.250	0	0	--	--	--	0
UST_SAN FRANCISCO COUNTY - CA		0.250	0	0	--	--	--	0
UST_SAN JOAQUIN COUNTY - CA		0.250	0	0	--	--	--	0
UST_SANTA CLARA COUNTY - CA		0.250	0	0	--	--	--	0
UST_SOLANO COUNTY - CA		0.250	0	0	--	--	--	0
UST_SUTTER COUNTY - CA		0.250	0	0	--	--	--	0
UST_YOLO COUNTY - CA		0.250	0	0	--	--	--	0

FEDERAL CERCLIS LIST

CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
EPA SAA		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP		0.500	0	0	0	--	--	0
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FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST		0.500	0	0	1	--	--	1
HIST INDIAN LUST R4		0.500	0	0	0	--	--	0
HIST INDIAN LUST R8		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)								
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
HIST LUST_SONOMA COUNTY - CA		0.500	0	0	0	--	--	0
LUFT_ALAMEDA COUNTY - CA		0.500	0	0	0	--	--	0
LUST ORANGE COUNTY - CA		0.500	0	0	0	--	--	0
LUST REG 1 - CA		0.500	0	0	0	--	--	0
LUST REG 2 - CA		0.500	0	0	0	--	--	0
LUST REG 3 - CA		0.500	0	0	0	--	--	0
LUST REG 4 - CA		0.500	0	0	0	--	--	0
LUST REG 5 - CA		0.500	0	0	1	--	--	1
LUST REG 6 - CA		0.500	0	0	0	--	--	0
LUST REG 7 - CA		0.500	0	0	0	--	--	0
LUST REG 8 - CA		0.500	0	0	0	--	--	0
LUST REG 9 - CA		0.500	0	0	0	--	--	0
LUST_HAZMAT_YOLO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_KERN COUNTY - CA		0.500	0	0	0	--	--	0
LUST_RIVERSIDE COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SAN FRANCISCO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SAN MATEO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SOLANO COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SONOMA COUNTY - CA		0.500	0	0	0	--	--	0
LUST_SUTTER COUNTY - CA		0.500	0	0	0	--	--	0
LUST_VENTURA COUNTY - CA		0.500	0	0	0	--	--	0
SLIC REG 1 - CA		0.500	0	0	0	--	--	0
SLIC REG 2 - CA		0.500	0	0	0	--	--	0
SLIC REG 3 - CA		0.500	0	0	0	--	--	0
SLIC REG 4 - CA		0.500	0	0	0	--	--	0
SLIC REG 5 - CA		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

SLIC REG 6 - CA		0.500	0	0	0	--	--	0
SLIC REG 7 - CA		0.500	0	0	0	--	--	0
SLIC REG 8 - CA		0.500	0	0	0	--	--	0
SLIC REG 9 - CA		0.500	0	0	0	--	--	0
SLIC_ALAMEDA COUNTY - CA		0.500	0	0	0	--	--	0

FEDERAL ERNS LIST

ERNS		SP	0	--	--	--	--	0
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FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	1	2	--	--	--	3
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0

FEDERAL NPL SITE LIST

NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0

STATE- AND TRIBAL - EQUIVALENT CERCLIS

ENVIROSTOR - CA		1.000	0	1	0	0	--	1
HIST TOXIC PITS - CA		1.000	0	0	0	0	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)

OIL & GAS CLEANUP - CA		0.500	0	0	0	--	--	0
SWRCB CLEANUP - CA		0.500	0	0	0	--	--	0
SWRCB NON_CASE - CA		0.500	0	0	0	--	--	0
TOXIC PITS - CA		1.000	0	0	0	0	--	0

STATE- AND TRIBAL - EQUIVALENT NPL

HIST RESPONSE - CA		1.000	0	0	0	0	--	0
RESPONSE - CA		1.000	0	0	0	0	--	0

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SWF/LF - CA		0.500	0	0	0	--	--	0
SWF/LF - CA		0.500	0	0	0	--	--	0

STATE RCRA GENERATORS LIST

HWG - CA		0.250	2	3	--	--	--	5
HWG_YOLO COUNTY - CA		0.250	0	0	--	--	--	0

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
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STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - CA		0.500	0	0	0	--	--	0
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LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
CALARP_KERN COUNTY - CA		0.250	0	0	--	--	--	0
CASE LIST_SAN DIEGO COUNTY - CA		0.500	0	0	0	--	--	0
CDL - CA		SP	0	--	--	--	--	0
CORRECTIVE ACTION_RIVERSIDE COUNTY - CA		0.500	0	0	0	--	--	0
CS_NAPA COUNTY - CA		0.500	0	0	0	--	--	0
CS_PLACER COUNTY - CA		1.000	0	0	0	0	--	0
SCH - CA		0.250	0	1	--	--	--	1
SITE LIST_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)

TOXIC SITE_SACRAMENTO COUNTY - CA		1.000	0	0	0	0	--	0
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RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)		SP	0	--	--	--	--	0
CHMIRS - CA		SP	0	--	--	--	--	0
HIST CHMIRS - CA		SP	0	--	--	--	--	0
INDUSTRIAL CLEANUP_ORANGE COUNTY - CA		0.125	0	--	--	--	--	0
SML_LOS ANGELES COUNTY - CA		0.125	0	--	--	--	--	0

LOCAL LAND RECORDS

LIENS 2		SP	0	--	--	--	--	0
DEED - CA		0.500	0	0	0	--	--	0
HIST LIENS - CA		SP	0	--	--	--	--	0
LIENS - CA		SP	0	--	--	--	--	0

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
HAULERS - CA		0.500	0	0	0	--	--	0
LF_SAN DIEGO COUNTY - CA		0.500	0	0	0	--	--	0
SWF_LOS ANGELES COUNTY - CA		0.500	0	0	0	--	--	0
SWRCY - CA		0.500	0	1	3	--	--	4

OTHER ASCERTAINABLE RECORDS

AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	1	--	--	--	1
ARENAS		SP	0	--	--	--	--	0
ARENAS 2		SP	0	--	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
CHURCHES		SP	0	--	--	--	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
COLLEGES		SP	0	--	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
COLLEGES 2		SP	0	--	--	--	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DAYCARE		SP	0	--	--	--	--	0
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
DOCKET CRIM PROS 2		SP	0	--	--	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	0	--	--	--	--	0
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
GOV MANSIONS		SP	0	--	--	--	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
LUCIS 2		0.500	0	0	0	--	--	0
MANIFEST EPA		0.250	0	2	--	--	--	2
MGP		1.000	0	0	0	0	--	0
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
PFAS FED SITES		0.500	0	0	0	--	--	0
PFAS INDUSTRY		0.500	0	0	1	--	--	1
PFAS MANIFEST		0.500	0	0	0	--	--	0
PFAS NPL		0.500	0	0	0	--	--	0
PFAS PROD		0.500	0	0	0	--	--	0
PFAS SPILLS		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0
PFAS WQP		0.500	0	0	0	--	--	0
PRISONS		SP	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.250	0	0	--	--	--	0
ROD		1.000	0	0	0	0	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AOC_SAN GABRIEL VALLEY - CA		1.000	0	0	0	0	--	0
BOND EXPENDITURE PLAN - CA		1.000	0	0	0	0	--	0
BP HW OUT_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
BUSINESS INVENTORY_SAN MATEO COUNTY - CA		0.250	0	0	--	--	--	0
CALEPA SITES - CA		0.250	0	5	--	--	--	5
CIWQS - CA		SP	0	--	--	--	--	0
CIWQS 2 - CA		SP	0	--	--	--	--	0
CORTESE - CA		0.500	0	0	0	--	--	0
CUPA_BUTTE COUNTY - CA		0.250	0	0	--	--	--	0
CUPA_FRESNO COUNTY - CA		0.250	1	2	--	--	--	3
CUPA_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
DAYCARE - CA		SP	0	--	--	--	--	0
DRYCLEANERS - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_AMADOR COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_ANTELOPE VALLEY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_BAY AREA - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_BUTTE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_CALAVERAS COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_COLUSA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_EASTERN KERN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_EL DORADO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_FEATHER RIVER - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_GLENN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_GREAT BASIN UNIFIED - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_IMPERIAL COUNTY - CA		0.250	0	0	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
DRYCLEANERS_LAKE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_LASSEN COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MENDOCINO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MOJAVE DESERT - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_MONTEREY BAY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTH COAST UNIFIED - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTHERN SIERRA - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_NORTHERN SONOMA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_PLACER COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SACRAMENTO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN DIEGO COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN JOAQUIN VALLEY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SAN LUIS OBISPO - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SANTA BARBARA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SHASTA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SISKIYOU COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_SOUTH COAST - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_TEHAMA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_TUOLUMNE COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_VENTURA COUNTY - CA		0.250	0	0	--	--	--	0
DRYCLEANERS_YOLO-SOLANO COUNTIES - CA		0.250	0	0	--	--	--	0
EMI - CA		SP	0	--	--	--	--	0
FA - CA		SP	0	--	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
FA 2 - CA		SP	0	--	--	--	--	0
FIRE AREAS - CA		1.000	0	0	0	0	--	0
GCC_SANTA CLARA VALLEY - CA		0.500	0	0	0	--	--	0
HAZMAT INCIDENT_CONTRA COSTA COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_CITY OF SAN JOSE - CA		0.250	0	0	--	--	--	0
HAZMAT_SACRAMENTO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SAN BERNARDINO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SAN DIEGO COUNTY - CA		0.250	0	0	--	--	--	0
HAZMAT_SANTA CLARA COUNTY - CA		0.250	0	0	--	--	--	0
HAZNET - CA		0.250	1	3	--	--	--	4
HAZWASTE_ORANGE COUNTY - CA		0.500	0	0	0	--	--	0
HIGH FIRE - CA		1.000	0	0	0	0	--	0
HIST CORTESE - CA		0.500	0	0	0	--	--	0
HIST DRYCLEANERS_SAN DIEGO COUNTY - CA		0.250	0	0	--	--	--	0
HIST HAZNET - CA		0.250	0	1	--	--	--	1
HIST HMS_LOS ANGELES COUNTY - CA		0.250	0	0	--	--	--	0
HIST HWP - CA		1.000	0	0	0	0	--	0
HIST LDS - CA		0.500	0	0	0	--	--	0
HIST MCS - CA		1.000	0	0	0	0	--	0
HIST NFA - CA		0.500	0	0	0	--	--	0
HIST SOLVENTS_SANTA CLARA CO - CA		0.250	0	0	--	--	--	0
HMS_LOS ANGELES COUNTY - CA		0.250	0	0	--	--	--	0
HWM COMMERCIAL FACILITIES - CA		0.250	0	0	--	--	--	0
HWP - CA		1.000	0	0	0	0	--	0
HWT - CA		0.250	0	0	--	--	--	0
LDS - CA		0.500	0	0	0	--	--	0
LOP_SANTA CLARA COUNTY - CA		0.500	0	0	0	--	--	0
MCS - CA		1.000	0	0	0	0	--	0
MWMP - CA		0.250	0	0	--	--	--	0
MWMP 2 - CA		0.250	0	0	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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OTHER ASCERTAINABLE RECORDS (cont.)

NFA - CA		0.500	0	1	0	--	--	1
NFE - CA		0.500	0	0	0	--	--	0
NPDES - CA		SP	0	--	--	--	--	0
PERCHLORATE 2 - CA		0.500	0	0	0	--	--	0
PFAS - CA		0.500	0	0	0	--	--	0
PFAS DOD - CA		0.500	0	0	0	--	--	0
PFAS GAMA - CA		0.500	0	0	0	--	--	0
PROPOSITION 65 - CA		1.000	0	0	0	0	--	0
RFR - CA		SP	0	--	--	--	--	0
SITES INVENTORY_VENTURA COUNTY - CA		1.000	0	0	0	0	--	0
SMU_SANTA BARBARA COUNTY - CA		1.000	0	0	0	0	--	0
SWAT - CA		SP	0	--	--	--	--	0
VCCP_VENTURA COUNTY - CA		0.500	0	0	0	--	--	0
WDR - CA		SP	0	--	--	--	--	0
WDS - CA		SP	0	--	--	--	--	0
WILDLANDS - CA		1.000	0	0	0	0	--	0
WIP - CA		0.250	0	0	--	--	--	0

OTHER

SEISMIC - CA		1.000	0	0	0	0	--	0
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Map Id: 1
Direction: ENE
Distance: 0.060 mi., 320 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : ELANORA VALLANDINGHAM
447 NO. MADERA AVE
KERNAN, CA 93630
Database(s) : [HIST UST - CA]

Envirosite ID: 690447
EPA ID: N/R

HIST UST - CA

Facility Name : ELANORA VALLANDINGHAM
Facility Address : 447 NO. MADERA AVE, KERNAN, 93630
County : N/R

PDF Link : [Click here for hyperlink provided by the agency.](#)

Map Id: 2
Direction: NNE
Distance: 0.075 mi., 396 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : PAT APIARIES | BLAIR APIARIES | JAY RAY
BLAIR
15175 W NIELSEN | 15175 WEST NIELSEN
KERNAN, CA 93630
Database(s) : [CUPA_FRESNO COUNTY - CA, HAZNET -
CA, HIST UST - CA, HWG - CA]

Envirosite ID: 485526
EPA ID: N/R

CUPA_FRESNO COUNTY - CA

Facility Name : BLAIR APIARIES
Facility Address : 15175 W NIELSEN, KERNAN, 93630

Site Details

Facility ID : FA0269893
CERS ID : N/R
SWIS Number : N/R
APN : 02009017
Cross Street : N/R
Last Date in Agency List : 2023-07-19

Description

DESCRIPTION : UST REMOVAL/CLOSURE W/1 TANK

HAZNET - CA

Facility Name : PAT APIARIES
Facility Address : 15175 WEST NIELSEN, KERNAN, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAC001019064
Active : Inactive
Category : STATE
Facility Types : N/R
Type : TEMPORARY
Contact Name : N/R
Contact Phone : N/R

Map Id: 2
Direction: NNE
Distance: 0.075 mi., 396 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : PAT APIARIES | BLAIR APIARIES | JAY RAY BLAIR
15175 W NIELSEN | 15175 WEST NIELSEN
Kerman, CA 93630
Database(s) : [CUPA_FRESNO COUNTY - CA, HAZNET - CA, HIST UST - CA, HWG - CA] **(cont.)**

EnviroSite ID: 485526
EPA ID: N/R

HAZNET - CA **(cont.)**

Facility Mailing Address : 15175 WEST NIELSEN, Kerman, CA 936300000
Latitude : 36.74214501
Longitude : -120.06324700
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2021-07-08

HIST UST - CA

Facility Name : JAY RAY BLAIR
Facility Address : 15175 W. NIELSEN, Kerman, 93630
County : N/R

PDF Link : [Click here for hyperlink provided by the agency.](#)

HWG - CA

Facility Name : PAT APIARIES
Facility Address : 15175 WEST NIELSEN, Kerman, CA 93630
County : FRESNO

EPA ID : CAC001019064
Status : Inactive
Category : STATE
Type : TEMPORARY
Facility Type : N/R
Mailing Address : 15175 WEST NIELSEN, Kerman, CA 936300000
Owner Name : PAT APIARIES
Owner Address : 15175 WEST NIELSEN, Kerman, CA 936300000
Operator Name : TOM SCHRAM/PURCHASING AGENT
Operator Address : EMCO WEST INDUSTRIES, FRESNO, CA 937110000
Latitude : 36.742179
Longitude : -120.063237

Map Id: 3
Direction: SW
Distance: 0.113 mi., 597 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : KRISTEN HOLLAND
204 N DEL NORTE AVE
Kerman, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]

EnviroSite ID: 49525894
EPA ID: N/R

ECHO

Facility Name : KRISTEN HOLLAND
Facility Address : 204 N DEL NORTE AVE, Kerman, CA 93630
County : FRESNO

Map Id: 3
 Direction: SW
 Distance: 0.113 mi., 597 ft.
 Elevation: 222 ft.
 Relative: Lower

Site Name : KRISTEN HOLLAND
 204 N DEL NORTE AVE
 KERNAN, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

EnviroSite ID: 49525894
EPA ID: N/R

ECHO (cont.)

Last Inspection Date :	N/R
Registry ID :	N/R
FIPS Code :	N/R
EPA Region :	09
Inspection Count :	0
Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	Zip Code Centroid
Reference Point :	N/R
Accuracy Meters :	10000
Derived Tribes :	N/R
Derived HUC :	N/R
Derived WBD :	N/R
Derived STCTY FIPS :	N/R
Derived Zip :	N/R
Derived CD113 :	N/R
Derived CB2010 :	N/R
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	56299 - All Other Waste Management Services
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R

Map Id: 3
 Direction: SW
 Distance: 0.113 mi., 597 ft.
 Elevation: 222 ft.
 Relative: Lower

Site Name : KRISTEN HOLLAND
 204 N DEL NORTE AVE
 KERNAN, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

Envirosite ID: 49525894
EPA ID: N/R

ECHO (cont.)

Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	36.734861
Longitude :	-120.072935
Last Date in Agency List :	2022-07-02
Last Inspection Date :	N/R
Registry ID :	110071289884
FIPS Code :	06019
EPA Region :	09
Inspection Count :	0
Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	Zip Code Centroid
Reference Point :	N/R
Accuracy Meters :	10000
Derived Tribes :	N/R
Derived HUC :	N/R
Derived WBD :	N/R
Derived STCTY FIPS :	N/R
Derived Zip :	N/R
Derived CD113 :	N/R
Derived CB2010 :	N/R
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R

Map Id: 3
Direction: SW
Distance: 0.113 mi., 597 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : KRISTEN HOLLAND
204 N DEL NORTE AVE
KERMAN, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

EnviroSite ID: 49525894
EPA ID: N/R

ECHO (cont.)

CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	56299 - All Other Waste Management Services
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	36.734861
Longitude :	-120.072935
Last Date in Agency List :	2023-07-21

FRS

Facility Name :	KRISTEN HOLLAND
Facility Address :	204 N DEL NORTE AVE, KERMAN, CA 93630
County :	FRESNO

Site Details

Registry ID :	110071289884
FRS Facility URL :	Click here for hyperlink provided by the agency.

Map Id: 3
Direction: SW
Distance: 0.113 mi., 597 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : KRISTEN HOLLAND
204 N DEL NORTE AVE
Kerman, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

EnviroSite ID: 49525894
EPA ID: N/R

FRS (cont.)

Last Date in Agency List : 2023-12-27

Source Description**Source Description :**

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest

Source and System ID : RCRAINFO - CAC003178909

HWG - CA

Facility Name : KRISTEN HOLLAND
Facility Address : 204 N DEL NORTE AVE, Kerman, CA 93630
County : FRESNO

EPA ID : CAC003178909
Status : Inactive
Category : STATE
Type : TEMPORARY
Facility Type : N/R
Mailing Address : 204 N DEL NORTE AVE, Kerman, CA 93630
Owner Name : BILL SOUZA
Owner Address : 204 N DEL NORTE AVE, Kerman, CA 93630
Operator Name : KRISTEN HOLLAND
Operator Address : 204 N DEL NORTE AVE, Kerman, CA 93630
Latitude : 36.737179
Longitude : -120.068009

RCRA_NONGEN

Facility Name : KRISTEN HOLLAND
Facility Address : 204 N DEL NORTE AVE, Kerman, CA 93630
County : FRESNO

Date Form Received by Agency : 2022-06-01
EPA ID : CAC003178909
Mailing Address : 204 N DEL NORTE AVE, Kerman, CA 93630
Contact : KRISTEN HOLLAND
Contact Address : 204 N DEL NORTE AVE, Kerman, CA 93630
Contact Country : N/R
Contact Telephone : 559-351-2318
Contact Email : KRISTEN@MY4HOLLANDS.COM

Map Id: 3
Direction: SW
Distance: 0.113 mi., 597 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : KRISTEN HOLLAND
204 N DEL NORTE AVE
Kerman, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

EnviroSite ID: 49525894
EPA ID: N/R

RCRA_NONGEN (cont.)

EPA Region :	09
Land Type :	Not Reported
Source Type :	Implementer
Classification :	Not a generator, verified
Description :	Not a generator, verified
Last Date in Agency List :	2023-12-06

Owner/Operator Summary

Owner/Operator Name :	BILL SOUZA
Owner/Operator Address :	204 N DEL NORTE AVE, Kerman, CA 93630
Owner/Operator Country :	N/R
Owner/Operator Telephone :	559-351-2318
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Owner
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Owner/Operator Name :	KRISTEN HOLLAND
Owner/Operator Address :	204 N DEL NORTE AVE, Kerman, CA 93630
Owner/Operator Country :	N/R
Owner/Operator Telephone :	559-351-2318
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Operator
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N/R
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N
On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

Map Id: 3
Direction: SW
Distance: 0.113 mi., 597 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : KRISTEN HOLLAND
204 N DEL NORTE AVE
Kerman, CA 93630
Database(s) : [ECHO, FRS, HWG - CA, RCRA_NONGEN]
(cont.)

EnviroSite ID: 49525894
EPA ID: N/R

RCRA_NONGEN (cont.)

Notices of Violations Summary
Regulation Violated :

N

Map Id: 4
Direction: SSW
Distance: 0.140 mi., 737 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : Kerman Proposed Elementary
School & High School Athletic
Facilities | Kerman Proposed Elem
Northwest Corner of Whitesbridge
& Madera Avenues
Kerman | Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA,
NFA - CA, SCH - CA]

EnviroSite ID: 678303
EPA ID: N/R

CALEPA SITES - CA

Facility Name : Kerman Proposed Elem
Facility Address : Northwest Corner of Whitesbridge & Madera Avenues,
Kerman, 93630

Site ID : 368058
EI ID : 60002320
EI Description : School Investigation
Latitude : 36.736527
Longitude : -120.064962
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2022-01-07

Site ID : 608151
EI ID : 60002320
EI Description : School Investigation
Latitude : 36.736527
Longitude : -120.064962
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2023-07-21

ENVIROSTOR - CA

Facility Name : Kerman Proposed Elementary School & High School Athletic Facilities
Facility Address : Northwest Corner of Whitesbridge & Madera Avenues, Kerman, CA 93630
County : FRESNO

Site Details

Cleanup Date : 2016-10-07
Cleanup Status : No Further Action
Site Type : School Investigation

Map Id: 4
Direction: SSW
Distance: 0.140 mi., 737 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : KERMAN PROPOSED ELEMENTARY
SCHOOL & HIGH SCHOOL ATHLETIC
FACILITIES | KERMAN PROPOSED ELEM
NORTHWEST CORNER OF WHITESBRIDGE
& MADERA AVENUES
KERMAN | Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA,
NFA - CA, SCH - CA] **(cont.)**

Envirosite ID: 678303
EPA ID: N/R

ENVIROSTOR - CA **(cont.)**

Site Type Detailed : School
Acreage : 45
APN : 020-120-26, 020-120-27, 020-120-32, 02012026S, 02012027S,
02012032S
National Priorities List : NO
Regulatory Agencies Involved : DTSC - Site Cleanup Program
Lead Agency : DTSC - Site Cleanup Program
Project Manager : Mellan Songco
Supervisor : Jose Salcedo
Office : Northern California Schools & Santa Susana
Envirostor ID : 60002320
Site Code : 104753
Assembly : 27
Senate : 14
Congressional District : 13
Special Program : N/R
Past Uses : AGRICULTURAL - ROW CROPS
Potential COC : DDT; DDD; Chlordane; Arsenic; DDE
Confirmed COC : No Contaminants found
Potential Media Affected : No Media Affected; Soil
Restricted Use : NO
Site Management Req : N/R
Funding : School District
Latitude : 36.736527
Longitude : -120.064962
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2023-12-14

Alias : APN - 020-120-26
APN - 020-120-27
APN - 020-120-32
APN - 02012026S
APN - 02012027S
APN - 02012032S
Alternate Name - Planned School Athletic Site & New Elementary School
Envirostor ID Number - 60002320
Project Code (Site Code) - 104753

Completed Activities

Completed Date : 2017-09-18
Area Name : PROJECT WIDE
Sub Area Name : N/R
Document Type : Cost Recovery Closeout Memo

Comments : Closeout Form 1554 submitted on 5/22/17 and processed by CRBU on
9/18/17; closeout complete.

Completed Date : 2016-10-07
Area Name : PROJECT WIDE

Map Id: 4
 Direction: SSW
 Distance: 0.140 mi., 737 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : KERMEN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES | KERMEN PROPOSED ELEM NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES
 KERMEN | Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] **(cont.)**

Envirosite ID: 678303
EPA ID: N/R

ENVIROSTOR - CA **(cont.)**

Sub Area Name :	N/R
Document Type :	Preliminary Endangerment Assessment Report
Comments :	On October 7, 2016, DTSC approved and issued a "No further action" determination on the PEA Report.
Completed Date :	2016-06-28
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Fieldwork
Comments :	On June 28, 2016, DTSC observed the implementation of the PEA Workplan.
Completed Date :	2016-06-27
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Preliminary Endangerment Assessment Workplan
Comments :	N/R
Completed Date :	2016-04-16
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Site Inspections/Visit (Non LUR)
Comments :	On April 16, 2016, DTSC conducted a site visit and a scoping meeting with the District and their consultant.
Completed Date :	2016-03-23
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Environmental Oversight Agreement
Comments :	Fully executed EOA sent to District.
Completed Date :	2016-03-10
Area Name :	PROJECT WIDE
Sub Area Name :	N/R
Document Type :	Environmental Oversight Agreement Application
Comments :	Consultant submitted EOP Application for Kerman USD, via email on 03/10/16.

NFA - CA

Facility Name :	Kerman Proposed Elementary School & High School Athletic Facilities
Facility Address :	Northwest Corner of Whitesbridge & Madera Avenues, Kerman, CA 93630
County :	FRESNO

Map Id: 4
Direction: SSW
Distance: 0.140 mi., 737 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES | KERMAN PROPOSED ELEM NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES
KERMAN | Kerman, CA 93630

Database(s) : [CALEPA SITES - CA, ENVIROSTOR - CA, NFA - CA, SCH - CA] **(cont.)**

EnviroSite ID: 678303
EPA ID: N/R

NFA - CA **(cont.)**

Cleanup Date :	2016-10-07
Cleanup Status :	No Further Action
Site Type :	School Investigation
Site Type Detailed :	School
Acreage :	45
APN :	020-120-26, 020-120-27, 020-120-32, 02012026S, 02012027S, 02012032S
National Priorities List :	NO
Regulatory Agencies Involved :	DTSC - Site Cleanup Program
Lead Agency :	DTSC - Site Cleanup Program
Project Manager :	Mellan Songco
Supervisor :	Jose Salcedo
Office :	Northern California Schools & Santa Susana
Envirostor ID :	60002320
Site Code :	104753
Assembly :	27
Senate :	14
Congressional District :	13
Special Program :	N/R
Past Uses :	AGRICULTURAL - ROW CROPS
Potential COC :	DDE; Chlordane; DDT; DDD; Arsenic
Confirmed COC :	No Contaminants found
Potential Media Affected :	Soil; No Media Affected
Restricted Use :	NO
Site Management Req :	N/R
Funding :	School District
Latitude :	36.736527
Longitude :	-120.064962
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-12-14

SCH - CA

Facility Name :	KERMAN PROPOSED ELEMENTARY SCHOOL & HIGH SCHOOL ATHLETIC FACILITIES
Facility Address :	NORTHWEST CORNER OF WHITESBRIDGE & MADERA AVENUES, KERMAN, 93630
County :	FRESNO
Status Date :	2016-10-07
Status :	NO FURTHER ACTION
Envirostor ID :	60002320
School District :	KERMAN UNIFIED
Program Type :	SCHOOL INVESTIGATION
Site Code :	104753
CalEnviroScreen Score :	75-80%
Latitude :	36.736527
Longitude :	-120.064962
Last Date in Agency List :	2023-08-16

Map Id: 5
 Direction: ESE
 Distance: 0.145 mi., 768 ft.
 Elevation: 225 ft.
 Relative: Higher

Site Name : KERMAN ELEMENTARY SCHOOL MASTER PLAN
 NORTHWEST CORNER OF WHITESBRIDGE ROAD AND MADERA AVENUE
 KERMAN, CA 93630
Database(s) : [CALEPA SITES - CA]

Envirosite ID: 51939911
EPA ID: N/R

CALEPA SITES - CA

Facility Name : KERMAN ELEMENTARY SCHOOL MASTER PLAN
 Facility Address : NORTHWEST CORNER OF WHITESBRIDGE ROAD AND MADERA AVENUE, KERMAN, 93630

Site ID : 621463
 EI ID : 901157
 EI Description : Construction Storm Water
 Latitude : 36.738426
 Longitude : -120.057667
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2023-07-21

Map Id: 6
 Direction: S
 Distance: 0.220 mi., 1162 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : Kerman Unified District Office
 15288 CALIFORNIA 180
 KERMAN | Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, CIWQS - CA, NPDES - CA, RFR - CA]

Envirosite ID: 1070006
EPA ID: N/R

CALEPA SITES - CA

Facility Name : Kerman Unified District Office
 Facility Address : 15288 CALIFORNIA 180, KERMAN, 93630

Site ID : 534978
 EI ID : 867997
 EI Description : Construction Storm Water
 Latitude : 36.735373
 Longitude : -120.063775
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2021-08-26

CIWQS - CA

Facility Name : KERMAN UNIFIED DISTRICT OFFICE
 Facility Address : 15288 CALIFORNIA 180, KERMAN, CA 93630
 County : FRESNO

Place ID : S867997
 Agency Name : KERMAN UNIFIED SCHOOL DISTRICT
 Last Date in Agency List : 2023-07-14

NPDES - CA

Facility Name : Kerman Unified District Office
 Facility Address : 15288 California 180, Kerman, 93630

Map Id: 6
Direction: S
Distance: 0.220 mi., 1162 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : Kerman Unified District Office
15288 CALIFORNIA 180
Kerman | Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, CIWQS - CA, NPDES - CA, RFR - CA] **(cont.)**

Envirosite ID: 1070006
EPA ID: N/R

NPDES - CA (cont.)

County : Fresno

Effective Date : 2018-10-25
Adoption Date : N/R
Expiration Date : N/R
Termination Date : 2020-04-20
Order Number : 2009-0009-DWQ
NPDES Number : CAS000002
WDID : 5F10C385029
RM Status : Terminated
Reg Meas ID : 502844
Reg Meas Type : Enrollee
Program : Construction
Facility Place ID : N/R
Region Code : 5F
Discharger ID : 0
Discharger : Kerman Unified School District
Discharger Address : 151 S First St, Kerman, California 93630
Last Date in Agency List : 2023-02-15

RFR - CA

Facility Name : Kerman Unified District Office
Facility Address : 15288 California 180, Kerman, CA 93630
County : Fresno

Effective Date : 2018-10-25
Adoption Date : N/R
Termination Date : N/R
Expiration/Review Date : N/R
NPDES Number : CAS000002
Order Number : 2009-0009-DWQ
WDID : 5F10C385029
SIC/NAICS : N/R
Program : CONSTW
Regulatory Measure Status : Active
Regulatory Measure Type : Storm water construction
Place/Project Type : Construction - Other: School District Office
Region : 5F
Design Flow : N/R
Major/Minor : N/R
Complexity : N/R
TTWQ : N/R
Number of Enforcement Actions within Five Years: N/R
Number of Violations within Five Years: N/R
Agency : Kerman Unified School District
Agency Address : 151 S First St, Kerman, CA 93630
Latitude : 36.735373
Longitude : -120.063775
Last Date in Agency List : 2020-01-27

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
Kerman | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA]

EnviroSite ID: 261375
EPA ID: CAL000418938

ALT FUELING

Facility Name :	SEI 37960
Facility Address :	15000 W WHITESBRIDGE AVE, Kerman, CA 93630
ID Number :	240313
Date Last Confirmed :	2023-08-10
Status :	Open: The station is open.
Station Phone :	559-846-8408
Expected Date :	N/R
Groups With Access Code :	Public
Access Days Time :	24 hours daily
Cards Accepted :	A Cash CREDIT D Debit M V
Date Updated :	2023-08-10 16:58:49
BD Blends :	N/R
Open Date :	2022-11-07
Fuel Type :	N/R
NG Fill Type :	N/R
NG PSI :	N/R
EV Level 1 EVSE Number :	N/R
EV Level 2 EVSE Number :	N/R
EV DC Fast Count :	N/R
EV Other Information :	N/R
EV Network :	N/R
EV Network Website :	N/R
Hydrogen Status Link :	N/R
NG Vehicle Class :	N/R
LPG Primary :	N/R
E85 Blender Pump :	N/R
EV Connector Types :	N/R
Hydrogen is Retail :	N/R
Access Code :	public
Access Detail Code :	N/R
Intersection Directions :	N/R
Geocode Status :	GPS
Geocode Status Description :	The location is from a real GPS readout at the station.
Owner Type :	Privately owned
Federal Agency ID :	N/R
Federal Agency Name :	N/R
Facility Type :	GAS_STATION
CNG Dispenser Num :	N/R
CNG On-Site Renewable Source :	N/R
CNG Total Compression Capacity :	N/R
CNG Storage Capacity :	N/R
LNG On-Site Renewable Source :	N/R
E85 Other Ethanol Blends :	N/R
EV Pricing :	N/R
LPG Nozzle Types :	N/R
Hydrogen Pressures :	N/R
Hydrogen Standards :	N/R
CNG Fill Type :	N/R

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

ALT FUELING **(cont.)**

CNG PSI :	N/R
CNG Vehicle Class :	N/R
LNG Vehicle Class :	N/R
Latitude :	36.73493
Longitude :	-120.06013
EV On-Site Renewable Source :	N/R
Last Date in Agency List :	2023-12-15

CALEPA SITES - CA

Facility Name :	7-ELEVEN INC. #37960
Facility Address :	15000 W WHITESBRIDGE AVE, KERMAN, 93630

Site ID :	21738
EI ID :	10407928
EI Description :	Chemical Storage Facilities
Latitude :	36.735300
Longitude :	-120.060700
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-07-21

Site ID :	21738
EI ID :	10407928
EI Description :	Hazardous Waste Generator
Latitude :	36.735300
Longitude :	-120.060700
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-07-21

Site ID :	21738
EI ID :	10407928
EI Description :	Underground Storage Tank
Latitude :	36.735300
Longitude :	-120.060700
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-07-21

Facility Name :	7-ELEVEN INC. STORE# 37960
Facility Address :	15000 W WHITESBRIDGE AVE, KERMAN, 93630

Site ID :	21738
EI ID :	10407928
EI Description :	Chemical Storage Facilities
Latitude :	36.735300
Longitude :	-120.060700

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

CALEPA SITES - CA **(cont.)**

Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2022-12-21

Site ID : 21738
EI ID : 10407928
EI Description : Underground Storage Tank
Latitude : 36.735300
Longitude : -120.060700
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2022-12-21

Site ID : 21738
EI ID : 10407928
EI Description : Hazardous Waste Generator
Latitude : 36.735300
Longitude : -120.060700
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2022-12-21

CUPA_FRESNO COUNTY - CA

Facility Name : 7-ELEVEN #37960
Facility Address : 15000 W WHITESBRIDGE AVE NW CORNER, KERMAN, 93630

Site Details

Facility ID : FA0170271
CERS ID : 10407928
SWIS Number : N/R
APN : 02012022S
Cross Street : MADERA
Last Date in Agency List : 2023-07-19

Description

DESCRIPTION : FORMER CONTAMINATED SITE/NO FURTHER ACTION
MV FUEL/OIL/PROPANE ONLY IN AGST/UST MODEL PL
UST FACILITY WITH 1 TO 3 TANKS
UST REMOVAL/CLOSURE W/4 TANKS

Facility Name : VALERO CORNER STORE #3618
Facility Address : 15000 W WHITESBRIDGE AVE NW CORNER, KERMAN, 93630

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

CUPA_FRESNO COUNTY - CA **(cont.)**

Site Details

Facility ID :	FA0170271
CERS ID :	10407928
SWIS Number :	N/R
APN :	02012022S
Cross Street :	MADERA
Last Date in Agency List :	2016-07-14

Description

DESCRIPTION :	FORMER CONTAMINATED SITE/NO FURTHER ACTION MV FUEL/OIL/PROPANE ONLY IN AGST/UST MODEL PL UST FACILITY WITH 1 TO 3 TANKS UST FACILITY WITH THREE TANKS UST REMOVAL/CLOSURE W/4 TANKS
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ECHO

Facility Name :	7 ELEVEN 37960
Facility Address :	15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County :	FRESNO

Last Inspection Date :	N/R
Registry ID :	110070423987
FIPS Code :	06019
EPA Region :	09
Inspection Count :	0
Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	GDT-ADDRESS MATCHING (GEOCODING)
Reference Point :	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters :	150
Derived Tribes :	N/R
Derived HUC :	18030012
Derived WBD :	180300090704
Derived STCTY FIPS :	06019
Derived Zip :	93630

Map Id: A7
 Direction: SE
 Distance: 0.231 mi., 1220 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
 7-ELEVEN INC. STORE# 37960
 15000 W WHITESBRIDGE AVE | 15000 W
 WHITESBRIDGE AVE NW CORNER
 KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
 CUPA_FRESNO COUNTY - CA, ECHO, EPA
 UST, FRS, HAZNET - CA, HIST HAZNET -
 CA, HWG - CA, MANIFEST EPA,
 RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

ECHO **(cont.)**

Derived CD113 :	21
Derived CB2010 :	060190040011016
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	44719 - Other Gasoline Stations
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	Y
NAA Flag :	Y
Latitude :	36.734961
Longitude :	-120.060545

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

ECHO (cont.)

Last Date in Agency List : 2023-07-21

EPA UST

Facility Name : 7-ELEVEN INC. STORE# 37960
Facility Address : 15000 W Whitesbridge Ave, Kerman, California 93630
County : N/R

Facility ID : CA10407928
Facility Status : Open UST(s)
Open USTs : 3
Closed USTs : N/R
Temporarily Out of Service USTs : N/R
Date of Last Inspection : N/R
EPA Region : 9
Tribe : N/R
Facility ID 2 : N/R
Latitude : 36.7351610198315
Longitude : -120.060546034975
Last Date in Agency List : 2023-09-15

Tank Details

Tank ID : CA10407928-001_A Stand-alone Tank_1
Tank Status : Open
Installation Date : 1998-04-01
Removal Date : N/R
Capacity : 14000
Substances : Regular Unleaded
Tank Wall Type : Double Wall

Tank ID : CA10407928-002_A Stand-alone Tank_1
Tank Status : Open
Installation Date : 1998-04-01
Removal Date : N/R
Capacity : 14000
Substances : Premium Unleaded
Tank Wall Type : Double Wall

Tank ID : CA10407928-003_A Stand-alone Tank_1
Tank Status : Open
Installation Date : 1998-04-01
Removal Date : N/R
Capacity : 10000
Substances : Diesel
Tank Wall Type : Double Wall

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

FRS

Facility Name : 7 ELEVEN 37960
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details

Registry ID : 110070423987
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2023-12-27

Source Description

Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest

Source and System ID : RCRAINFO - CAL000418938

HAZNET - CA

Facility Name : 1X ARCO (BEACON) GAS STATION
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAC000062637
Active : Inactive
Category : STATE
Facility Types : N/R
Type : TEMPORARY
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : HUNTER ENVIRO. SVC., CANTON, OH 447020000
Latitude : 36.73500233
Longitude : -120.06020183
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

HAZNET - CA **(cont.)**

Last Date in Agency List : 2021-07-08

Facility Name : 7 ELEVEN 37960
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAL000418938
Active : Active
Category : STATE
Facility Types : N/R
Type : PERMANENT
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : PO BOX 711, DALLAS, TX 75221
Latitude : 36.73516500
Longitude : -120.06054450
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2021-07-08

Waste Generator Details

State Waste : 2018: 134 - Aqueous solution with total organic residues less than 10 percent, 0.16800 tons to CAT080013352
2017: 352 - Other organic solids, 0.1 tons to NVT330010000
2017: 134 - Aqueous solution with total organic residues less than 10 percent, 0.084 tons to CAT080013352

Facility Name : ARCO STATION #3618
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAL000324053
Active : Inactive
Category : STATE
Facility Types : N/R
Type : PERMANENT
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : 685 W THIRD ST, HANFORD, CA 932300000
Latitude : 36.73500233
Longitude : -120.06020183

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

HAZNET - CA **(cont.)**

Agency Hyperlink :
Last Date in Agency List :

[Click here for hyperlink provided by the agency.](#)
2021-07-08

Waste Generator Details State Waste :

2013: 352 - Other organic solids, 0.075 tons to NVT330010000
2012: 352 - Other organic solids, 0.1 tons to CAD982444481
2012: 352 - Other organic solids, 0.0375 tons to NVT330010000
2012: 352 - Other organic solids, 0.125 tons to CAD982444481
2011: 352 - Other organic solids, 0.2125 tons to CAD982444481
2011: 352 - Other organic solids, 0.1125 tons to CAD982444481
2010: 352 - Other organic solids, 0.2 tons to CAD982444481
2009: 352 - Other organic solids, 0.15 tons to CAD982444481
2009: 352 - Other organic solids, 0.3 tons to CAD982444481
2008: 352 - Other organic solids, 0.3875 tons to CAD982444481
2008: 134 - Aqueous solution with total organic residues less than 10
percent, 0.924 tons to CAD982444481

Facility Name :
Facility Address :
County :

ARCO STORE #3618
15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
FRESNO

Site Details

Generator EPA ID :
Active :
Category :
Facility Types :
Type :
Contact Name :
Contact Phone :
Facility Mailing Address :
Latitude :
Longitude :
Agency Hyperlink :
Last Date in Agency List :

CAL000383978
Inactive
STATE
N/R
PERMANENT
N/R
N/R
19500 BULVERDE ROAD, SAN ANTONIO, TX 782590000
36.73516500
-120.06054450
[Click here for hyperlink provided by the agency.](#)
2021-07-08

Waste Generator Details State Waste :

2016: 134 - Aqueous solution with total organic residues less than 10
percent, 0.21 tons to CAT080013352
2016: 352 - Other organic solids, 0.25 tons to NVT330010000
2015: 352 - Other organic solids, 0.2 tons to NVT330010000
2014: 134 - Aqueous solution with total organic residues less than 10
percent, 0.882 tons to CAT080013352
2014: 352 - Other organic solids, 0.15 tons to NVT330010000

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

HAZNET - CA **(cont.)**

2013: 352 - Other organic solids, 0.0125 tons to NVT330010000

HIST HAZNET - CA

Facility Name : 1X ARCO (BEACON) GAS STATION
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, 93630-1030

ID Number : CAC000062637
Last Date in Agency List : 2014-11-17

HWG - CA

Facility Name : 1X ARCO (BEACON) GAS STATION
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAC000062637
Status : Inactive
Category : STATE
Type : TEMPORARY
Facility Type : N/R
Mailing Address : HUNTER ENVIRO. SVC., CANTON, OH 447020000
Owner Name : N/R
Owner Address : N/A
Operator Name : ROGER BERNARD
Operator Address : N/A
Latitude : 36.73496
Longitude : -120.060145

Facility Name : 7 ELEVEN 37960
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000418938
Status : Active
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : PO BOX 711, DALLAS, TX 75221
Owner Name : 7-ELEVEN INC.
Owner Address : PO BOX 711, IRVING, TX 95063
Operator Name : JENNIFER DART
Operator Address : 1722 ROUTH STREET, DALLAS, TX 75201
Latitude : -90.0
Longitude : 180.0

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

HWG - CA (cont.)

Facility Name : 7 ELEVEN INC #37960
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000418938
Status : Active
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : PO BOX 711, DALLAS, TX 75221
Owner Name : 7-ELEVEN INC.
Owner Address : PO BOX 711, IRVING, TX 95063
Operator Name : JANET WAGER
Operator Address : PO BOX 711, DALLAS, TX 75221
Latitude : -90.0
Longitude : 180.0

Facility Name : ARCO STATION #3618
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000324053
Status : Inactive
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : 685 W THIRD ST, HANFORD, CA 932300000
Owner Name : CST BRANDS, INC.
Owner Address : 685 W THIRD ST, HANFORD, CA 932300000
Operator Name : JULIE JOHNS
Operator Address : 685 W 3RD ST, HANFORD, CA 93230
Latitude : 36.73496
Longitude : -120.060145

Facility Name : ARCO STORE #3618
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000383978
Status : Inactive
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : 19500 BULVERDE ROAD, SAN ANTONIO, TX 782590000
Owner Name : CST BRANDS, INC.

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

HWG - CA **(cont.)**

Owner Address : 19500 BULVERDE ROAD, SAN ANTONIO, TX 792590000
Operator Name : SANDY HUFF
Operator Address : 19500 BULVERDE ROAD, SAN ANTONIO, TX 782590000
Latitude : 36.73516
Longitude : -120.06054

MANIFEST EPA

Manifest Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosearch account representative for a complimentary site report containing all of the details available.

Manifest Number : 017532894FLE
Shipped Date : 2022-09-22
Updated Date : 2022-10-28
Received Date : 2022-09-28
Status : Signed
Generator ID : CAL000418938
Generator Name : 7-ELEVEN 37960
Generator Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
Generator Mailing : PO BOX 80741, RANCHO SANTA MARGARITA, CA 92688
Generator Contact : N/R
Destination ID : NVT330010000
Destination Name : US ECOLOGY NEVADA, INC.
Destination Mailing : HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Address : HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Contact : N/R
Submission Type : DataImage5Copy
Origin Type : Service
Manifest Residue : N
Rejection : N
Last Date in Agency List : 2023-12-14

Waste Details

Waste Line Number : 1
Is DOT Hazardous : Y
DOT ID Number : UN3175

DOT Information : UN3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CONTAINING GASOLINE), 4.1, PG II

Non Waste Description : N/R
Quantity : 100 Pounds
Quantity Tons, Acute, Non-Acute : 0.05, 0, 0.05
Quantity Kg, Acute, Non-Acute : 0, 45.3515
Quantity Tons, Haz, Non-Haz : 0.05, 0

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

MANIFEST EPA (cont.)

Quantity Kg, Haz, Non-Haz : 45.3515, 0
Management Method : H132 - LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Is EPA Waste : Y
Federal Code : D018
State Code : CA - 352

Manifest Details

Manifest Number : 017532895FLE
Shipped Date : 2022-09-22
Updated Date : 2022-10-25
Received Date : 2022-09-29
Status : Signed
Generator ID : CAL000418938
Generator Name : 7-Eleven-#37960
Generator Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
Generator Mailing : PO Box 80741, Rancho Santa Margarita, CA 92688
Generator Contact : N/R
Destination ID : CAT080013352
Destination Name : WORLD OIL RECYCLING
Destination Mailing : 2000 N. ALAMEDA STREET CA90222 CA037US 2000, COMPTON, CA 90222
Destination Address : 2000 N. ALAMEDA STREET, COMPTON, CA 90222-0000
Destination Contact : N/R
Submission Type : DataImage5Copy
Origin Type : Service
Manifest Residue : N
Rejection : N
Last Date in Agency List : 2023-12-14

Waste Details

Waste Line Number : 1
Is DOT Hazardous : Y
DOT ID Number : UN1203
DOT Information : UN1203, Gasoline Mixture, 3, PG II
Non Waste Description : N/R
Quantity : 10 Gallons
Quantity Tons, Acute, Non-Acute : 0.041701417, 0, 0.041701417
Quantity Kg, Acute, Non-Acute : 0, 37.824436
Quantity Tons, Haz, Non-Haz : 0, 0.041701417
Quantity Kg, Haz, Non-Haz : 0, 37.824436
Management Method : H039 - OTHER RECOVERY OR RECLAMATION FOR REUSE
Is EPA Waste : N
Federal Code : N/R
State Code : CA - 134

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

MANIFEST EPA (cont.)

Manifest Details

Manifest Number :	017530288FLE
Shipped Date :	2022-05-10
Updated Date :	2022-06-21
Received Date :	2022-05-18
Status :	Signed
Generator ID :	CAL000418938
Generator Name :	7-ELEVEN 37960
Generator Address :	15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
Generator Mailing :	PO BOX 80741, RANCHO SANTA MARGARITA, CA 92688
Generator Contact :	N/R
Destination ID :	NVT330010000
Destination Name :	US ECOLOGY NEVADA, INC.
Destination Mailing :	HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Address :	HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	Y
DOT ID Number :	UN3175
DOT Information :	UN3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CONTAINING GASOLINE), 4.1, PG II
Non Waste Description :	N/R
Quantity :	100 Pounds
Quantity Tons, Acute, Non-Acute :	0.05, 0, 0.05
Quantity Kg, Acute, Non-Acute :	0, 45.3515
Quantity Tons, Haz, Non-Haz :	0.05, 0
Quantity Kg, Haz, Non-Haz :	45.3515, 0
Management Method :	H132 - LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Is EPA Waste :	Y
Federal Code :	D018
State Code :	CA - 352

Manifest Details

Manifest Number :	016573702FLE
Shipped Date :	2021-10-29
Updated Date :	2021-11-22
Received Date :	2021-11-03

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

MANIFEST EPA (cont.)

Status :	Signed
Generator ID :	N/R
Generator Name :	7-ELEVEN 37960
Generator Address :	15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
Generator Mailing :	PO BOX 80741, RANCHO SANTA MARGARITA, CA 92688
Generator Contact :	N/R
Destination ID :	NVT330010000
Destination Name :	US ECOLOGY NEVADA, INC.
Destination Mailing :	HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Address :	HWY 95 11 MILES S. OF BEATTY, BEATTY, NV 89003
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	Y
DOT ID Number :	UN3175
DOT Information :	UN3175, SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.(CONTAINING GASOLINE), 4.1, PG II
Non Waste Description :	N/R
Quantity :	100 Pounds
Quantity Tons, Acute, Non-Acute :	0.05, 0, 0.05
Quantity Kg, Acute, Non-Acute :	0, 45.3515
Quantity Tons, Haz, Non-Haz :	0.05, 0
Quantity Kg, Haz, Non-Haz :	45.3515, 0
Management Method :	H132 - LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Is EPA Waste :	Y
Federal Code :	D018
State Code :	CA - 352

Manifest Details

Manifest Number :	015003546FLE
Shipped Date :	2020-11-05
Updated Date :	2020-12-07
Received Date :	2020-11-12
Status :	Signed
Generator ID :	CAL000418938
Generator Name :	7 ELEVEN INC
Generator Address :	15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
Generator Mailing :	PO BOX 80741, RANCHO SANTA MARGARITA, CA 92688

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

MANIFEST EPA (cont.)

Generator Contact :	N/R
Destination ID :	CAT080013352
Destination Name :	WORLD OIL RECYCLING
Destination Mailing :	2000 N. ALAMEDA STREET CA90222 CA037US 2000, COMPTON, CA 90222
Destination Address :	2000 N. ALAMEDA STREET, COMPTON, CA 90222-0000
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	Y
DOT ID Number :	UN1203
DOT Information :	UN1203, GASOLINE MIXTURE, 3, PG II
Non Waste Description :	N/R
Quantity :	50 Gallons
Quantity Tons, Acute, Non-Acute :	0.20850709, 0, 0.20850709
Quantity Kg, Acute, Non-Acute :	0, 189.1222
Quantity Tons, Haz, Non-Haz :	0, 0.20850709
Quantity Kg, Haz, Non-Haz :	0, 189.1222
Management Method :	H039 - OTHER RECOVERY OR RECLAMATION FOR REUSE
Is EPA Waste :	N
Federal Code :	N/R
State Code :	CA - 134

RCRA_NONGEN

Facility Name :	7 ELEVEN 37960
Facility Address :	15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County :	FRESNO
Date Form Received by Agency :	2016-07-18
EPA ID :	CAL000418938
Mailing Address :	PO BOX 711, DALLAS, TX 75221
Contact :	JOSE RIOS
Contact Address :	1722 ROUTH STREET SUITE 1000, DALLAS, TX 75201
Contact Country :	N/R
Contact Telephone :	972-828-6592
Contact Email :	JOSE.RIOS@7-11.COM
EPA Region :	09
Land Type :	Not Reported
Source Type :	Implementer
Classification :	Not a generator, verified

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

RCRA_NONGEN (cont.)

Description : Not a generator, verified
Last Date in Agency List : 2023-12-06

Owner/Operator Summary

Owner/Operator Name : 7-ELEVEN INC.
Owner/Operator Address : PO BOX 711, DALLAS, TX 75221
Owner/Operator Country : N/R
Owner/Operator Telephone : 714-771-5484
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Owner
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Owner/Operator Name : JOSE RIOS
Owner/Operator Address : 1722 ROUTH STREET SUITE 1000, DALLAS, TX 75201
Owner/Operator Country : N/R
Owner/Operator Telephone : 972-828-6592
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Operator
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste : N
Mixed Waste (Haz. and Radioactive) : N
Recycler of Hazardous Waste : N
Transporter of Hazardous Waste : N
Treater, Storer or Disposer of HW : N
Underground Injection Activity : N
On-site Burner Exemption : N
Furnace Exemption : N
Used Oil Fuel Burner : N
Used Oil Processor : N
Used Oil Refiner : N
Used Oil Fuel Marketer to Burner : N
Used Oil Specification Marketer : N
Used Oil Transfer Facility : N
Used Oil Transporter : N

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

RCRA_NONGEN (cont.)

Notices of Violations Summary
Regulation Violated :

N

UST - CA

Facility Name : 7-ELEVEN INC. #37960
Facility Address : 15000 W Whitesbridge Ave, Kerman, 93630
County : Fresno

Facility ID : FA0170271
CERS ID : 10407928
Permitting Agency : 7000
Latitude : 36.7353
Longitude : -120.0607
Last Date in Agency List : 2023-11-27

Tank Details

Tank ID Number : 3618-1
Tank Installation Date : 1998-04-01
Tank Closure Date : N/R
Tank Status : Confirmed/Updated Information
Facility Type : Motor Vehicle Fueling
Owner Type : Non-Government
Tank Owner Name : DANIEL R. MARTIN
Tank Owner Mailing Address : 2377 W. SHAW AVENUE SUITE 112
Tank Operator Name : 7-ELEVEN INC.
Tank Operator Mailing Address : P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST : N/R
Number of Closed UST : 0
Number of OOS UST : 0
Tank Number of Compartments : 1
Tank Contents : Regular Unleaded
Tank Capacity Gallons : 15000
Tank Type : Double Wall
Tank PC Construction : Steel
Tank PW Piping Construction : Fiberglass
Tank Piping Type : Pressure
Tank Piping Construction : Double Walled
Tank Sacrificial Anode : No
Tank CP Impressed Current : No
Tank CP Shutoff : Yes
Tank Alarms : No
Tank Ball Float : No
Tank Spill Bucket : Yes
Tank Configuration : Stand Alone Tank

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

UST - CA **(cont.)**

Tank ID Number :	3618-2
Tank Installation Date :	1998-04-01
Tank Closure Date :	N/R
Tank Status :	Confirmed/Updated Information
Facility Type :	Motor Vehicle Fueling
Owner Type :	Non-Government
Tank Owner Name :	DANIEL R. MARTIN
Tank Owner Mailing Address :	2377 W. SHAW AVENUE SUITE 112
Tank Operator Name :	7-ELEVEN INC.
Tank Operator Mailing Address :	P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST :	N/R
Number of Closed UST :	0
Number of OOS UST :	0
Tank Number of Compartments :	1
Tank Contents :	Premium Unleaded
Tank Capacity Gallons :	15000
Tank Type :	Double Wall
Tank PC Construction :	Steel
Tank PW Piping Construction :	Fiberglass
Tank Piping Type :	Pressure
Tank Piping Construction :	Double Walled
Tank Sacrificial Anode :	No
Tank CP Impressed Current :	No
Tank CP Shutoff :	Yes
Tank Alarms :	No
Tank Ball Float :	No
Tank Spill Bucket :	Yes
Tank Configuration :	Stand Alone Tank

Tank ID Number :	3618-3
Tank Installation Date :	1998-04-01
Tank Closure Date :	N/R
Tank Status :	Confirmed/Updated Information
Facility Type :	Motor Vehicle Fueling
Owner Type :	Non-Government
Tank Owner Name :	DANIEL R. MARTIN
Tank Owner Mailing Address :	2377 W. SHAW AVENUE SUITE 112
Tank Operator Name :	7-ELEVEN INC.
Tank Operator Mailing Address :	P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST :	N/R
Number of Closed UST :	0
Number of OOS UST :	0
Tank Number of Compartments :	1
Tank Contents :	Diesel
Tank Capacity Gallons :	10000
Tank Type :	Double Wall
Tank PC Construction :	Steel
Tank PW Piping Construction :	Fiberglass
Tank Piping Type :	Pressure

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

UST - CA (cont.)

Tank Piping Construction :	Double Walled
Tank Sacrificial Anode :	No
Tank CP Impressed Current :	No
Tank CP Shutoff :	Yes
Tank Alarms :	No
Tank Ball Float :	No
Tank Spill Bucket :	Yes
Tank Configuration :	Stand Alone Tank
Facility Name :	7-ELEVEN INC. STORE# 37960
Facility Address :	15000 W Whitesbridge Ave, Kerman, 93630
County :	Fresno
Facility ID :	FA0170271
CERS ID :	10407928
Permitting Agency :	7000
Latitude :	36.7353
Longitude :	-120.0607
Last Date in Agency List :	2023-06-26

Tank Details

Tank ID Number :	3618-1
Tank Installation Date :	1998-04-01
Tank Closure Date :	N/R
Tank Status :	Confirmed/Updated Information
Facility Type :	Motor Vehicle Fueling
Owner Type :	Non-Government
Tank Owner Name :	DANIEL R. MARTIN
Tank Owner Mailing Address :	2377 W. SHAW AVENUE SUITE 112
Tank Operator Name :	7-ELEVEN INC.
Tank Operator Mailing Address :	P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST :	N/R
Number of Closed UST :	0
Number of OOS UST :	0
Tank Number of Compartments :	1
Tank Contents :	Regular Unleaded
Tank Capacity Gallons :	14000
Tank Type :	Double Wall
Tank PC Construction :	Steel
Tank PW Piping Construction :	Fiberglass
Tank Piping Type :	Pressure
Tank Piping Construction :	Double Walled
Tank Sacrificial Anode :	No
Tank CP Impressed Current :	No
Tank CP Shutoff :	Yes
Tank Alarms :	No

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

UST - CA **(cont.)**

Tank Ball Float :	No
Tank Spill Bucket :	Yes
Tank Configuration :	Stand Alone Tank
Tank ID Number :	3618-2
Tank Installation Date :	1998-04-01
Tank Closure Date :	N/R
Tank Status :	Confirmed/Updated Information
Facility Type :	Motor Vehicle Fueling
Owner Type :	Non-Government
Tank Owner Name :	DANIEL R. MARTIN
Tank Owner Mailing Address :	2377 W. SHAW AVENUE SUITE 112
Tank Operator Name :	7-ELEVEN INC.
Tank Operator Mailing Address :	P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST :	N/R
Number of Closed UST :	0
Number of OOS UST :	0
Tank Number of Compartments :	1
Tank Contents :	Premium Unleaded
Tank Capacity Gallons :	14000
Tank Type :	Double Wall
Tank PC Construction :	Steel
Tank PW Piping Construction :	Fiberglass
Tank Piping Type :	Pressure
Tank Piping Construction :	Double Walled
Tank Sacrificial Anode :	No
Tank CP Impressed Current :	No
Tank CP Shutoff :	Yes
Tank Alarms :	No
Tank Ball Float :	No
Tank Spill Bucket :	Yes
Tank Configuration :	Stand Alone Tank
Tank ID Number :	3618-3
Tank Installation Date :	1998-04-01
Tank Closure Date :	N/R
Tank Status :	Confirmed/Updated Information
Facility Type :	Motor Vehicle Fueling
Owner Type :	Non-Government
Tank Owner Name :	DANIEL R. MARTIN
Tank Owner Mailing Address :	2377 W. SHAW AVENUE SUITE 112
Tank Operator Name :	7-ELEVEN INC.
Tank Operator Mailing Address :	P.O. BOX 711 ATTN: GASOLINE COMPLIANCE, LOC 148
Number of In-use UST :	N/R
Number of Closed UST :	0
Number of OOS UST :	0
Tank Number of Compartments :	1
Tank Contents :	Diesel

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

EnviroSite ID: 261375
EPA ID: CAL000418938

UST - CA (cont.)

Tank Capacity Gallons :	10000
Tank Type :	Double Wall
Tank PC Construction :	Steel
Tank PW Piping Construction :	Fiberglass
Tank Piping Type :	Pressure
Tank Piping Construction :	Double Walled
Tank Sacrificial Anode :	No
Tank CP Impressed Current :	No
Tank CP Shutoff :	Yes
Tank Alarms :	No
Tank Ball Float :	No
Tank Spill Bucket :	Yes
Tank Configuration :	Stand Alone Tank
Facility Name :	ARCO #3618
Facility Address :	15000 W Whitesbridge Ave, Kerman, 93630
County :	Fresno
Facility ID :	FA0170271
CERS ID :	N/R
Permitting Agency :	7000
Latitude :	36.7353
Longitude :	-120.0607
Last Date in Agency List :	2017-03-08

Tank Details

Tank ID Number :	N/R
Tank Installation Date :	N/R
Tank Closure Date :	N/R
Tank Status :	N/R
Facility Type :	N/R
Owner Type :	N/R
Tank Owner Name :	N/R
Tank Owner Mailing Address :	N/R
Tank Operator Name :	N/R
Tank Operator Mailing Address :	N/R
Number of In-use UST :	N/R
Number of Closed UST :	N/R
Number of OOS UST :	N/R
Tank Number of Compartments :	N/R
Tank Contents :	N/R
Tank Capacity Gallons :	N/R
Tank Type :	N/R
Tank PC Construction :	N/R
Tank PW Piping Construction :	N/R
Tank Piping Type :	N/R

Map Id: A7
Direction: SE
Distance: 0.231 mi., 1220 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : 7 ELEVEN 37960 | ARCO STORE #3618 |
7-ELEVEN INC. STORE# 37960
15000 W WHITESBRIDGE AVE | 15000 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [ALT FUELING, CALEPA SITES - CA,
CUPA_FRESNO COUNTY - CA, ECHO, EPA
UST, FRS, HAZNET - CA, HIST HAZNET -
CA, HWG - CA, MANIFEST EPA,
RCRA_NONGEN, UST - CA] **(cont.)**

Envirosite ID: 261375
EPA ID: CAL000418938

UST - CA (cont.)

Tank Piping Construction :	N/R
Tank Sacrificial Anode :	N/R
Tank CP Impressed Current :	N/R
Tank CP Shutoff :	N/R
Tank Alarms :	N/R
Tank Ball Float :	N/R
Tank Spill Bucket :	N/R
Tank Configuration :	N/R

Map Id: A8
Direction: SE
Distance: 0.249 mi., 1316 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : SAN JOAQUIN VALLEY RAILROAD
APN 023 010 17U/STATE RTE 145
KERMAN, CA 93630

Database(s) : [HAZNET - CA, HWG - CA]

Envirosite ID: 41002362
EPA ID: CAC002579149

HAZNET - CA

Facility Name :	SAN JOAQUIN VALLEY RAILROAD
Facility Address :	APN 023 010 17U/STATE RTE 145, KERMAN, CA 93630
County :	FRESNO

Site Details

Generator EPA ID :	CAC002579149
Active :	Inactive
Category :	STATE
Facility Types :	N/R
Type :	TEMPORARY
Contact Name :	N/R
Contact Phone :	N/R
Facility Mailing Address :	PO BOX 937, EXETER, CA 93221
Latitude :	36.73498841
Longitude :	-120.06018791
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2021-07-08

HWG - CA

Facility Name :	SAN JOAQUIN VALLEY RAILROAD
Facility Address :	APN 023 010 17U/STATE RTE 145, KERMAN, CA 93630
County :	FRESNO

Map Id: A8
Direction: SE
Distance: 0.249 mi., 1316 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : SAN JOAQUIN VALLEY RAILROAD
APN 023 010 17U/STATE RTE 145
KERNAN, CA 93630
Database(s) : [HAZNET - CA, HWG - CA] (**cont.**)

EnviroSite ID: 41002362
EPA ID: CAC002579149

HWG - CA (**cont.**)

EPA ID :	CAC002579149
Status :	Inactive
Category :	STATE
Type :	TEMPORARY
Facility Type :	N/R
Mailing Address :	PO BOX 937, EXETER, CA 93221
Owner Name :	SAN JOAQUIN VALLEY RAILROAD
Owner Address :	221 N F STREET, EXETER, CA 93221
Operator Name :	PAUL GOINS/MECH SUPR/X230
Operator Address :	PO BOX 937, EXETER, CA 93221
Latitude :	36.734988
Longitude :	-120.060188

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERNAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERNAN | Kerman, CA
Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA]

EnviroSite ID: 392570
EPA ID: CAL000389724

CALEPA SITES - CA

Facility Name :	O'REILLY AUTO PARTS #3921
Facility Address :	15196 W WHITESBRIDGE AVE, KERNAN, 93630
Site ID :	53198
EI ID :	10413013
EI Description :	Hazardous Waste Generator
Latitude :	36.734969
Longitude :	-120.062376
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-07-21
Site ID :	53198
EI ID :	10413013
EI Description :	Chemical Storage Facilities
Latitude :	36.734969
Longitude :	-120.062376
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-07-21

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

CUPA_FRESNO COUNTY - CA

Facility Name : FORMER RITE AID #5853
Facility Address : 15196 W WHITESBRIDGE AVE NW CORNER, KERMAN, 93630

Site Details

Facility ID : FA0000784
CERS ID : N/R
SWIS Number : N/R
APN : 02012019S
Cross Street : MADERA
Last Date in Agency List : 2023-07-19

Description

DESCRIPTION : HAZ MAT DISCLOSURE/CLOSED SITE

Facility Name : O'REILLY AUTO PARTS #3921
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, 93630

Site Details

Facility ID : FA0282944
CERS ID : 10413013
SWIS Number : N/R
APN : 02012019S
Cross Street : N/R
Last Date in Agency List : 2023-07-19

Description

DESCRIPTION : HAZ MAT DISCLOSURE-HAZ WASTE ONLY
USED OIL COLLECTION CENTER

ECHO

Facility Name : O'REILLY AUTO PARTS #3921
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Last Inspection Date : N/R
Registry ID : 110058260144
FIPS Code : 06019
EPA Region : 09
Inspection Count : 0

Map Id: 9
 Direction: SSE
 Distance: 0.250 mi., 1320 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
 DBA O'REILLY AUTO PARTS #3921 |
 KERMAN SHOPPING PLAZA LLC
 15196 W WHITESBRIDGE AVE | 15196 W
 WHITESBRIDGE AVE NW CORNER
 KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
 COUNTY - CA, ECHO, FRS, HAZNET - CA,
 HWG - CA, MANIFEST EPA,
 RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

ECHO (cont.)

Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	ADDRESS MATCHING-HOUSE NUMBER
Reference Point :	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters :	50
Derived Tribes :	N/R
Derived HUC :	18030012
Derived WBD :	180300090704
Derived STCTY FIPS :	06019
Derived Zip :	93630
Derived CD113 :	21
Derived CB2010 :	060190040011016
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	44131 - Automotive Parts and Accessories Stores
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

ECHO **(cont.)**

Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	Y
NAA Flag :	Y
Latitude :	36.734924
Longitude :	-120.0624
Last Date in Agency List :	2023-07-21

FRS

Facility Name :	O'REILLY AUTO PARTS #3921
Facility Address :	15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County :	FRESNO

Site Details

Registry ID :	110058260144
FRS Facility URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-12-27

Source Description

Source Description :	The California Environmental Reporting System (CERS) is a statewide web-based user and information exchange system to support over 140,000 regulated businesses and over 130 local agencies in electronically collecting and reporting significant hazardous materials, hazardous waste and compliance and enforcement data as mandated by California law. Under oversight by Cal/EPA, certified local governing agencies (Unified Program Agencies - UPAs) consolidate, coordinate and provide consistent regulatory activities for six state and federal environmental programs.
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Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

FRS (cont.)

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest

Source and System ID :

CA-CERS - 10413013
CA-ENVIROVIEW - 53198
RCRAINFO - CAL000393420

HAZNET - CA

Facility Name :
Facility Address :
County :

CSK AUTO DBA O'REILLY AUTO PARTS #3921
15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
FRESNO

Site Details

Generator EPA ID :
Active :
Category :
Facility Types :
Type :
Contact Name :
Contact Phone :
Facility Mailing Address :
Latitude :
Longitude :
Agency Hyperlink :
Last Date in Agency List :

CAL000389724
Inactive
STATE
N/R
PERMANENT
N/R
N/R
233 S PATTERSON, SPRINGFIELD, MO 65802
36.73584900
-120.06160200
[Click here for hyperlink provided by the agency.](#)
2021-07-08

Facility Name :
Facility Address :

KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE, KERMAN, CA 93630

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

Envirosite ID: 392570
EPA ID: CAL000389724

HAZNET - CA **(cont.)**

County : FRESNO

Site Details

Generator EPA ID : CAC002688517
Active : Inactive
Category : STATE
Facility Types : N/R
Type : TEMPORARY
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : 990 HIGHLAND DR STE 200, SOLANA BEACH, CA 92075
Latitude : 36.73499587
Longitude : -120.06220578
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2021-07-08

Waste Generator Details

State Waste : 2012: 151 - Asbestos containing waste, 2 tons to CAL000190080

Facility Name : O'REILLY AUTO PARTS #3921
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAL000393420
Active : Active
Category : STATE
Facility Types : N/R
Type : PERMANENT
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : 233 S PATTERSON, SPRINGFIELD, MO 65802
Latitude : 36.73584900
Longitude : -120.06160200
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2021-07-08

Waste Generator Details

State Waste : 2019: 791 - Liquids with pH <= 2, 0.00800 tons to NVD980895338
2019: 181 - Other inorganic solid waste, 0.25000 tons to CAD059494310
2016: 221 - Waste oil and mixed oil, 5.51 tons to CAT080025711

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA
Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

HWG - CA

Facility Name : CSK AUTO DBA O'REILLY AUTO PARTS #3921
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000389724
Status : Inactive
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : 233 S PATTERSON, SPRINGFIELD, MO 65802
Owner Name : CSK AUTO INC
Owner Address : 702 E BETHANY HOME RD, PHOENIX, AZ 850142104
Operator Name : JOHN BOUNDS
Operator Address : 233 S PATTERSON, SPRINGFIELD, MO 65802
Latitude : 36.735849
Longitude : -120.061602

Facility Name : KERMAN SHOPPING PLAZA LLC
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAC002688517
Status : Inactive
Category : STATE
Type : TEMPORARY
Facility Type : N/R
Mailing Address : 990 HIGHLAND DR STE 200, SOLANA BEACH, CA 92075
Owner Name : KERMAN SHOPPING PLAZA LLC
Owner Address : 990 HIGHLAND DR STE 200, SOLANA BEACH, CA 92075
Operator Name : MICHAEL L RUBIN
Operator Address : 990 HIGHLAND DR STE 200, SOLANA BEACH, CA 92075
Latitude : 36.734983
Longitude : -120.062392

Facility Name : O'REILLY AUTO PARTS #3921
Facility Address : 15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

EPA ID : CAL000393420
Status : Active
Category : STATE
Type : PERMANENT
Facility Type : N/R
Mailing Address : 233 S PATTERSON AVE, SPRINGFIELD, MO 658020000
Owner Name : O'REILLY AUTO PARTS

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
Kerman Shopping Plaza LLC
15196 W Whitesbridge Ave | 15196 W
Whitesbridge Ave NW Corner
Kerman | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

HWG - CA (cont.)

Owner Address :	233 S PATTERSON AVE, SPRINGFIELD, MO 658020000
Operator Name :	JOHN BOUNDS
Operator Address :	233 S. PATTERSON AVE., SPRINGFIELD, MO 65802
Latitude :	36.735849
Longitude :	-120.061602

MANIFEST EPA

Manifest Details

Manifest Number :	013134660FLE
Shipped Date :	2020-08-20
Updated Date :	2021-05-06
Received Date :	2020-09-30
Status :	Signed
Generator ID :	CAL000393420
Generator Name :	O'REILLY AUTO PARTS #3921
Generator Address :	15196 W WHITESBRIDGE AVE, Kerman, CA 93630
Generator Mailing :	233 S PATTERSON, SPRINGFIELD, MO 65802-0000
Generator Contact :	N/R
Destination ID :	NVD980895338
Destination Name :	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC.
Destination Mailing :	2095 NEWLANDS DRIVE EAST, FERNLEY, NV 89408
Destination Address :	2095 NEWLANDS DRIVE EAST, FERNLEY, NV 89408
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	N
DOT ID Number :	N/R
DOT Information :	N/R
Non Waste Description :	NON-HAZARDOUS, NON-REGULATED SOLIDS (SODA ASH, SULFURIC ACID)
Quantity :	3 Pounds
Quantity Tons, Acute, Non-Acute :	0.0015, 0, 0.0015
Quantity Kg, Acute, Non-Acute :	0, 1.360545
Quantity Tons, Haz, Non-Haz :	0, 0.0015
Quantity Kg, Haz, Non-Haz :	0, 1.360545
Management Method :	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste :	N
Federal Code :	N/R
State Code :	CA - 181

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

MANIFEST EPA (cont.)

Manifest Details

Manifest Number :	013434606FLE
Shipped Date :	2019-08-20
Updated Date :	2019-09-23
Received Date :	2019-09-12
Status :	Signed
Generator ID :	CAL000393420
Generator Name :	O'Reilly Auto Parts
Generator Address :	15196 W WHITESBRIDGE AVE, KERMAN, CA 936301019
Generator Mailing :	15196 W WHITESBRIDGE AVE, KERMAN, CA 936301019
Generator Contact :	N/R
Destination ID :	NVD980895338
Destination Name :	21st Century Environmental Management of Nevada, LLC
Destination Mailing :	2095 Newlands Drive East, Fernley, NV 89408
Destination Address :	2095 Newlands Drive East, Fernley, NV 89408
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	Y
DOT ID Number :	UN3264
DOT Information :	UN3264, Waste Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Hydrofluoric Acid), 8, PG II, ERG#154
Non Waste Description :	N/R
Quantity :	16 Pounds
Quantity Tons, Acute, Non-Acute :	0.008, 0, 0.008
Quantity Kg, Acute, Non-Acute :	0, 7.2562404
Quantity Tons, Haz, Non-Haz :	0.008, 0
Quantity Kg, Haz, Non-Haz :	7.2562404, 0
Management Method :	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste :	Y
Federal Code :	D002
State Code :	CA - 791

RCRA_NONGEN

Facility Name :	O'REILLY AUTO PARTS #3921
Facility Address :	15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County :	FRESNO

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

RCRA_NONGEN **(cont.)**

Date Form Received by Agency :	2014-01-23
EPA ID :	CAL000393420
Mailing Address :	233 S PATTERSON, SPRINGFIELD, MO 65802-0000
Contact :	JOHN BOUNDS
Contact Address :	233 S. PATTERSON AVE., SPRINGFIELD, MO 65802
Contact Country :	N/R
Contact Telephone :	417-520-4589
Contact Email :	JBOUNDS2@OREILLYAUTO.COM
EPA Region :	09
Land Type :	Not Reported
Source Type :	Implementer
Classification :	Not a generator, verified
Description :	Not a generator, verified
Last Date in Agency List :	2023-12-06

Owner/Operator Summary

Owner/Operator Name :	JOHN BOUNDS
Owner/Operator Address :	233 S. PATTERSON AVE., SPRINGFIELD, MO 65802
Owner/Operator Country :	N/R
Owner/Operator Telephone :	417-520-4589
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Operator
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Owner/Operator Name :	O'REILLY AUTO PARTS
Owner/Operator Address :	233 S PATTERSON, SPRINGFIELD, MO 65802-0000
Owner/Operator Country :	N/R
Owner/Operator Telephone :	417-862-3333
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Owner
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N

Map Id: 9
Direction: SSE
Distance: 0.250 mi., 1320 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : O'REILLY AUTO PARTS #3921 | CSK AUTO
DBA O'REILLY AUTO PARTS #3921 |
KERMAN SHOPPING PLAZA LLC
15196 W WHITESBRIDGE AVE | 15196 W
WHITESBRIDGE AVE NW CORNER
KERMAN | Kerman, CA

Database(s) : [CALEPA SITES - CA, CUPA_FRESNO
COUNTY - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 392570
EPA ID: CAL000389724

RCRA_NONGEN (cont.)

On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

Notices of Violations Summary
Regulation Violated : N

SWRCY - CA

Facility Name :	O'Reilly Auto Parts #3921
Facility Address :	15196 W Whitesbridge Avenue, Kerman, 93630
County :	N/R

Site Details

ID Number :	N/R
Activity Categories :	N/R
Activities :	N/R
Phone Number :	(417) 862-2674
Type :	UsedOil
Last Date in Agency List :	2023-06-27

Map Id: A10
Direction: SE
Distance: 0.251 mi., 1325 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : ARCO (BEACON) #618
15000 WHITES BRIDGE W
KERMAN, CA 93630

Database(s) : [CALEPA SITES - CA, EPA LUST, FRS, LUST
REG 5 - CA]

EnviroSite ID: 326265
EPA ID: N/R

CALEPA SITES - CA

Facility Name :	ARCO (BEACON) #618
Facility Address :	15000 WHITES BRIDGE W, KERMAN, 93630

Map Id: A10
 Direction: SE
 Distance: 0.251 mi., 1325 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : ARCO (BEACON) #618
 15000 WHITES BRIDGE W
 KERNAN, CA 93630
Database(s) : [CALEPA SITES - CA, EPA LUST, FRS, LUST
 REG 5 - CA] **(cont.)**

Envirosite ID: 326265
EPA ID: N/R

CALEPA SITES - CA **(cont.)**

Site ID : 635396
 EI ID : T0601900027
 EI Description : Leaking Underground Storage Tank Cleanup Site
 Latitude : 36.732509
 Longitude : -120.062743
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2023-07-21

Site ID : 227150
 EI ID : T0601900027
 EI Description : Leaking Underground Storage Tank Cleanup Site
 Latitude : 36.732509
 Longitude : -120.062743
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2022-12-21

EPA LUST

Facility Name : ARCO (BEACON) #618
 Facility Address : 15000 WHITES BRIDGE W, KERNAN, California 93630
 County : N/R

Facility ID : N/R
 LUST ID : CAT0601900027
 Reported Date : N/R
 Status : No Further Action
 Substance : N/R
 Closed With Residual Contamination (Tribal Only): N/R
 NFA_Letter (Tribal Only) : N/R
 Tribe (Tribal Only) : N/R
 EPA Region : 9
 Estimated Population within 1500ft : 1036
 Estimated Private Domestic Wells within 1500ft: 94
 Within Source Water Protection Area (SPA): No
 SPA Public Water System and Facility ID: N/R
 SPA Water Type : N/R
 SPA Facility Type : N/R
 SPA HUC12 : N/R
 Within Groundwater Wellhead Protection Area (WHPA): Yes
 WHPA Public Water System and Facility ID: CA1010007_13882
 WHPA Water Type : GW
 WHPA Facility Type : WL
 WHPA HUC12 : 180300090701
 Within Estimated 100-year Floodplain: No
 Latitude : 36.7349499999999
 Longitude : -120.06054
 Last Date in Agency List : 2023-09-15

Map Id: A10
Direction: SE
Distance: 0.251 mi., 1325 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : ARCO (BEACON) #618
15000 WHITES BRIDGE W
KERNAN, CA 93630
Database(s) : [CALEPA SITES - CA, EPA LUST, FRS, LUST
REG 5 - CA] (**cont.**)

Envirosite ID: 326265
EPA ID: N/R

FRS

Facility Name : ARCO (BEACON) #618
Facility Address : 15000 WHITES BRIDGE W, KERNAN, CA 93630
County : FRESNO

Site Details

Registry ID : 110066135943
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2023-12-27

Source Description

Source Description :

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

FRS Environmental Interest

Source and System ID : CA-ENVIROVIEW - 227150

LUST REG 5 - CA

Facility Name : ARCO (BEACON) #618
Facility Address : 15000 WHITES BRIDGE W, KERNAN, CA 93630
County : Fresno

Site Details

Status Date : 2001-07-12
Status : Completed - Case Closed
Begin Date : 1985-03-21
Global ID : T0601900027
Region : REGION 5F
Site History : N/R
RB Case Number : 5T10000028
Potential Media Affected : Aquifer used for drinking water supply
Potential Contaminants of Concern : Gasoline
Local Agency : FRESNO COUNTY
Local Case Number : FA0170271
Lead Agency : CENTRAL VALLEY RWQCB (REGION 5F)
File Location : N/R
CUF Case : NO
Caseworker : JWH
Case Type : LUST Cleanup Site
How Discovered : Tank Tightness Test
How Discovered Description : N/R
Stop Method : N/R
Stop Description : N/R

Map Id: A10
Direction: SE
Distance: 0.251 mi., 1325 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : ARCO (BEACON) #618
15000 WHITES BRIDGE W
Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, EPA LUST, FRS, LUST
REG 5 - CA] (**cont.**)

Envirosite ID: 326265
EPA ID: N/R

LUST REG 5 - CA (**cont.**)

Calwater Watershed Name :	South Valley Floor - Fresno (551.30)
DWR Groundwater Subbasin Name :	San Joaquin Valley - Kings (5-022.08)
Disadvantaged Community :	N/R
Latitude :	36.732509
Longitude :	-120.062743
Agency URL :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2023-12-06

Contacts Summary

Global ID :	T0601900027
Contact Name :	JEFFREY HANNEL
Contact Type :	Regional Board Caseworker - Primary Caseworker
Organization Name :	CENTRAL VALLEY RWQCB (REGION 5F)
Address :	1685 E STREET
City :	FRESNO
Phone Number :	N/R
Email :	jhannel@waterboards.ca.gov

Global ID :	T0601900027
Contact Name :	FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV
Contact Type :	Local Agency Caseworker
Organization Name :	FRESNO COUNTY
Address :	1221 Fulton Street
City :	Fresno
Phone Number :	N/R
Email :	environmentalhealth@fresnocountyca.gov

Regulatory Activities

Date :	2001-07-12
Global ID :	T0601900027
Action Type :	ENFORCEMENT
Action :	Closure/No Further Action Letter

Date :	1988-03-30
Global ID :	T0601900027
Action Type :	Other
Action :	Leak Reported

Date :	1985-04-30
Global ID :	T0601900027
Action Type :	Other
Action :	Leak Discovery

Date :	1985-03-21
Global ID :	T0601900027
Action Type :	Other
Action :	Leak Stopped

Map Id: A10
Direction: SE
Distance: 0.251 mi., 1325 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : ARCO (BEACON) #618
15000 WHITES BRIDGE W
Kerman, CA 93630
Database(s) : [CALEPA SITES - CA, EPA LUST, FRS, LUST
REG 5 - CA] (**cont.**)

EnviroSite ID: 326265
EPA ID: N/R

LUST REG 5 - CA (**cont.**)

Status History
Status Date : 2001-07-12
Global ID : T0601900027
Status : Completed - Case Closed

Status Date : 1987-10-08
Global ID : T0601900027
Status : Open - Site Assessment

Status Date : 1985-03-21
Global ID : T0601900027
Status : Open - Case Begin Date

Map Id: A11
Direction: SSE
Distance: 0.254 mi., 1343 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : Dreams Recycling LLC
15057 W WHITESBRIDGE AVE
Kerman | Kerman, CA 93630
Database(s) : [SWRCY - CA]

EnviroSite ID: 1125442
EPA ID: N/R

SWRCY - CA

Facility Name : Dreams Recycling
Facility Address : 15057 W Whitesbridge Ave, Kerman, 93630
County : N/R

Site Details

ID Number : N/R
Activity Categories : N/R
Activities : N/R
Phone Number : (559) 846-9551
Type : CRV
Last Date in Agency List : 2021-03-15

Facility Name : Dreams Recycling LLC
Facility Address : 15057 W WHITESBRIDGE AVE, Kerman, 93630
County : N/R

Site Details

ID Number : N/R
Activity Categories : N/R
Activities : N/R
Phone Number : (559) 846-9551
Type : CRV

Map Id: A11
Direction: SSE
Distance: 0.254 mi., 1343 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : Dreams Recycling LLC
15057 W WHITESBRIDGE AVE
Kerman | Kerman, CA 93630
Database(s) : [SWRCY - CA] (**cont.**)

Envirosite ID: 1125442
EPA ID: N/R

SWRCY - CA (**cont.**)

Last Date in Agency List : 2023-06-27

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE Kerman
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
Kerman | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA]

Envirosite ID: 313001
EPA ID: CAL000356836

CIWQS - CA

Facility Name : AUTOZONE Kerman
Facility Address : 14923 W WHITESBRIDGE RD, Kerman, CA 93630
County : FRESNO

Place ID : S803938
Agency Name : AUTOZONE INC
Last Date in Agency List : 2023-07-14

ECHO

Facility Name : AUTOZONE #5324
Facility Address : 14923 WHITESBRIDGE RD, Kerman, CA 93630
County : FRESNO

Last Inspection Date : N/R
Registry ID : 110070477657
FIPS Code : 06019
EPA Region : 09
Inspection Count : 0
Last Inspection Days : N/R
Informal Count : 0
Last Informal Action Date : N/R
Formal Action Count : 0
Last Formal Action Date : N/R
Total Penalties : 0
Penalty Count : N/R
Last Penalty Date : N/R
Last Penalty Amount : N/R
QTRS IN NC : 0
Programs IN SNC : 0
Current Compliance Status : No Violation Identified
Three-Year Compliance Status :
Collection Method : GDT-ADDRESS MATCHING (GEOCODING)
Reference Point : ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters : 150
Derived Tribes : N/R

Map Id: 12
 Direction: SE
 Distance: 0.265 mi., 1402 ft.
 Elevation: 223 ft.
 Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
 14923 WHITESBRIDGE RD | 14923 W
 WHITESBRIDGE RD
 KERMAN | Kerman, CA 93630

Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
 HWG - CA, MANIFEST EPA, NPDES - CA,
 RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

ECHO (cont.)

Derived HUC :	18030012
Derived WBD :	180300090704
Derived STCTY FIPS :	06019
Derived Zip :	93630
Derived CD113 :	21
Derived CB2010 :	060190040021034
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	45299 - All Other General Merchandise Stores
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	Y
NAA Flag :	Y
Latitude :	36.73486
Longitude :	-120.058659

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE Kerman
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
Kerman | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

ECHO **(cont.)**

Last Date in Agency List : 2023-07-21

FRS

Facility Name : AUTOZONE #5324
Facility Address : 14923 WHITESBRIDGE RD, Kerman, CA 93630
County : FRESNO

Site Details

Registry ID : 110070477657
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2023-12-27

Source Description

Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

FRS Environmental Interest

Source and System ID : RCRAINFO - CAL000356836

HAZNET - CA

Facility Name : AUTOZONE #5324
Facility Address : 14923 WHITESBRIDGE RD, Kerman, CA 93630
County : FRESNO

Site Details

Generator EPA ID : CAL000356836
Active : Active
Category : STATE
Facility Types : N/R
Type : PERMANENT
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : DEPT 8190, 123 SOUTH FRONT STREET, MEMPHIS, TN 38103
Latitude : 36.73485951
Longitude : -120.05865969

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

Envirosite ID: 313001
EPA ID: CAL000356836

HAZNET - CA **(cont.)**

Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Last Date in Agency List : 2021-07-08

Waste Generator Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosearch account representative for a complimentary site report containing all of the details available.

State Waste :

2019: 352 - Other organic solids, 0.10000 tons to AZR000515924
2019: 331 - Off-specification, aged or surplus organics, 0.00650 tons to AZR000515924
2019: 352 - Other organic solids, 0.20000 tons to AZR000521146
2019: 181 - Other inorganic solid waste, 0.00750 tons to CAD008364432
2019: 214 - Unspecified solvent mixture, 0.00150 tons to CAD980884183
2019: 331 - Off-specification, aged or surplus organics, 0.00250 tons to CAD008364432
2019: 181 - Other inorganic solid waste, 0.00800 tons to NVD980895338
2019: 214 - Unspecified solvent mixture, 0.00350 tons to CAD008364432
2018: 331 - Off-specification, aged or surplus organics, 0.00100 tons to NVD980895338
2018: 214 - Unspecified solvent mixture, 0.00400 tons to NVD980895338
2018: 181 - Other inorganic solid waste, 0.00450 tons to CAD008364432
2018: 352 - Other organic solids, 0.10000 tons to AZR000515924
2018: 352 - Other organic solids, 0.30000 tons to CAD059494310
2017: 181 - Other inorganic solid waste, 0.013 tons to CAD008364432
2017: 214 - Unspecified solvent mixture, 0.001 tons to CAD008364432
2017: 331 - Off-specification, aged or surplus organics, 0.0075 tons to CAD008364432
2017: 352 - Other organic solids, 0.4 tons to CAD059494310
2017: 223 - Unspecified oil-containing waste, 0.15 tons to NED981723513
2016: 352 - Other organic solids, 0.225 tons to CAD059494310
2016: 214 - Unspecified solvent mixture, 0.003 tons to NVD980895338
2016: 214 - Unspecified solvent mixture, 0.0005 tons to CAD980884183
2016: 331 - Off-specification, aged or surplus organics, 0.006 tons to NVD980895338
2016: 181 - Other inorganic solid waste, 0.019 tons to CAD980884183
2015: 214 - Unspecified solvent mixture, 0.0075 tons to CAD980884183
2015: 352 - Other organic solids, 0.1 tons to CAD059494310
2015: 331 - Off-specification, aged or surplus organics, 0.011 tons to CAD980884183
2014: 352 - Other organic solids, 0.125 tons to CAD059494310
2014: 214 - Unspecified solvent mixture, 0.003 tons to NVD980895338
2013: 352 - Other organic solids, 0.05 tons to CAD059494310
2013: 352 - Other organic solids, 0.05 tons to CAD980675276

HWG - CA

Facility Name : AUTOZONE #5324
Facility Address : 14923 WHITESBRIDGE RD, KERMAN, CA 93630
County : FRESNO

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

Envirosite ID: 313001
EPA ID: CAL000356836

HWG - CA **(cont.)**

EPA ID :	CAL000356836
Status :	Active
Category :	STATE
Type :	PERMANENT
Facility Type :	N/R
Mailing Address :	123 SOUTH FRONT STREET, MEMPHIS, TN 381030000
Owner Name :	AUTOZONE INC
Owner Address :	123 SOUTH FRONT ST, MEMPHIS, TN 381030000
Operator Name :	BRYAN BLAIR
Operator Address :	DEPT 8190, 123 SOUTH FRONT STREET, MEMPHIS, TN 38103
Latitude :	36.734944
Longitude :	-120.058844

MANIFEST EPA

Manifest Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosearch account representative for a complimentary site report containing all of the details available.

Manifest Number :	025102234JJK
Shipped Date :	2023-07-08
Updated Date :	2023-08-02
Received Date :	2023-07-11
Status :	Signed
Generator ID :	CAL000356836
Generator Name :	AUTOZONE #5324
Generator Address :	14923 WHITESBRIDGE RD, KERMAN, CA 93630
Generator Mailing :	DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Generator Contact :	N/R
Destination ID :	AZR000521146
Destination Name :	YUMA YES 2 WASTE TRANSFER STATION
Destination Mailing :	2730 E 13TH ST, YUMA, AZ 85365
Destination Address :	6500 S US HIGHWAY 95, YUMA, AZ 85365
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	N
DOT ID Number :	N/R
DOT Information :	N/R
Non Waste Description :	Non-RCRA Hazardous Waste, Solid-(Oily Debris)
Quantity :	150 Pounds
Quantity Tons, Acute, Non-Acute :	0.075, 0, 0.075
Quantity Kg, Acute, Non-Acute :	0, 68.02725
Quantity Tons, Haz, Non-Haz :	, 0.075

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE Kerman
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
Kerman | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

Envirosite ID: 313001
EPA ID: CAL000356836

MANIFEST EPA **(cont.)**

Quantity Kg, Haz, Non-Haz : , 68.02725
Management Method : H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste : N
Federal Code : N/R
State Code : CA - 352

Manifest Details

Manifest Number : 024694564JJK
Shipped Date : 2023-06-10
Updated Date : 2023-07-10
Received Date : 2023-06-13
Status : Signed
Generator ID : CAL000356836
Generator Name : AUTOZONE #5324
Generator Address : 14923 WHITESBRIDGE RD, Kerman, CA 93630
Generator Mailing : DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Generator Contact : N/R
Destination ID : AZR000521146
Destination Name : Yuma YES 2 Waste Transfer Station
Destination Mailing : Not Required, Not Required, AL 00000
Destination Address : 6500 US Highway 95, Yuma, AZ 85365
Destination Contact : N/R
Submission Type : DataImage5Copy
Origin Type : Service
Manifest Residue : N
Rejection : N
Last Date in Agency List : 2023-12-14

Waste Details

Waste Line Number : 1
Is DOT Hazardous : N
DOT ID Number : N/R
DOT Information : N/R
Non Waste Description : NON RCRA HAZARDOUS WASTE SOLID (OILY DEBRIS)
Quantity : 150 Pounds
Quantity Tons, Acute, Non-Acute : 0.075, 0, 0.075
Quantity Kg, Acute, Non-Acute : 0, 68.02725
Quantity Tons, Haz, Non-Haz : , 0.075
Quantity Kg, Haz, Non-Haz : , 68.02725
Management Method : H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste : N
Federal Code : N/R
State Code : CA - 352

Manifest Details

Manifest Number : 025103185JJK
Shipped Date : 2023-04-05
Updated Date : 2023-05-01

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630

Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

Envirosite ID: 313001
EPA ID: CAL000356836

MANIFEST EPA **(cont.)**

Received Date : 2023-04-11
Status : Signed
Generator ID : CAL000356836
Generator Name : AUTOZONE #5324
Generator Address : 14923 WHITESBRIDGE RD, KERMAN, CA 93630
Generator Mailing : DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Generator Contact : N/R
Destination ID : AZR000521146
Destination Name : YUMA YES 2 WASTE TRANSFER STATION
Destination Mailing : 2730 E 13TH ST, YUMA, AZ 85365
Destination Address : 6500 S US HIGHWAY 95, YUMA, AZ 85365
Destination Contact : N/R
Submission Type : DataImage5Copy
Origin Type : Service
Manifest Residue : N
Rejection : N
Last Date in Agency List : 2023-12-14

Waste Details

Waste Line Number : 1
Is DOT Hazardous : N
DOT ID Number : N/R
DOT Information : N/R
Non Waste Description : NON-RCRA I-IAAR000US WPSTL SOLID (OILY DEBRIS)
Quantity : 700 Pounds
Quantity Tons, Acute, Non-Acute : 0.35, 0, 0.35
Quantity Kg, Acute, Non-Acute : 0, 317.4605
Quantity Tons, Haz, Non-Haz : , 0.35
Quantity Kg, Haz, Non-Haz : , 317.4605
Management Method : H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste : N
Federal Code : N/R
State Code : CA - 352

Manifest Details

Manifest Number : 022056673JJK
Shipped Date : 2022-11-18
Updated Date : 2022-12-29
Received Date : 2022-11-30
Status : Signed
Generator ID : CAL000356836
Generator Name : AUTOZONE #5324
Generator Address : 14923 WHITESBRIDGE RD, KERMAN, CA 93630
Generator Mailing : DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Generator Contact : N/R
Destination ID : AZR000521146
Destination Name : YUMA YES 2 WASTE TRANSFER STATION
Destination Mailing : 2730 E 13TH ST, YUMA, AZ 85365
Destination Address : 6500 S US HIGHWAY 95, YUMA, AZ 85365
Destination Contact : N/R

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

MANIFEST EPA (cont.)

Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	N
DOT ID Number :	N/R
DOT Information :	N/R
Non Waste Description :	NON-RCRA HAZARDOUS WASTE, SOLID (OILY DEBRIS)
Quantity :	200 Pounds
Quantity Tons, Acute, Non-Acute :	0.1, 0, 0.1
Quantity Kg, Acute, Non-Acute :	0, 90.703
Quantity Tons, Haz, Non-Haz :	0, 0.1
Quantity Kg, Haz, Non-Haz :	0, 90.703
Management Method :	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste :	N
Federal Code :	N/R
State Code :	CA - 352

Manifest Details

Manifest Number :	024025885JJK
Shipped Date :	2022-06-30
Updated Date :	2022-08-01
Received Date :	2022-07-11
Status :	Signed
Generator ID :	CAL000356836
Generator Name :	AUTOZONE #5324
Generator Address :	14923 WHITESBRIDGE RD, KERMAN, CA 93630
Generator Mailing :	DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Generator Contact :	N/R
Destination ID :	AZR000521146
Destination Name :	YUMA YES 2 WASTE TRANSFER STATION
Destination Mailing :	2730 E 13TH ST, YUMA, AZ 85365
Destination Address :	6500 S US HIGHWAY 95, YUMA, AZ 85365
Destination Contact :	N/R
Submission Type :	DataImage5Copy
Origin Type :	Service
Manifest Residue :	N
Rejection :	N
Last Date in Agency List :	2023-12-14

Waste Details

Waste Line Number :	1
Is DOT Hazardous :	N
DOT ID Number :	N/R

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

MANIFEST EPA (cont.)

DOT Information :	N/R
Non Waste Description :	Non-RCRA Hazardous Waste, Solid-(Oily Debris)
Quantity :	150 Pounds
Quantity Tons, Acute, Non-Acute :	0.075, 0, 0.075
Quantity Kg, Acute, Non-Acute :	0, 68.02725
Quantity Tons, Haz, Non-Haz :	0, 0.075
Quantity Kg, Haz, Non-Haz :	0, 68.02725
Management Method :	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
Is EPA Waste :	N
Federal Code :	N/R
State Code :	CA - 352

NPDES - CA

Facility Name :	Autozone Kerman
Facility Address :	14923 W Whitesbridge Rd, Kerman, 93630
County :	Fresno
Effective Date :	2010-06-25
Adoption Date :	N/R
Expiration Date :	N/R
Termination Date :	2012-08-14
Order Number :	2009-0009-DWQ
NPDES Number :	CAS000002
WDID :	5F10C358844
RM Status :	Terminated
Reg Meas ID :	404405
Reg Meas Type :	Enrollee
Program :	Construction
Facility Place ID :	N/R
Region Code :	5F
Discharger ID :	0
Discharger :	Autozone Inc
Discharger Address :	123 S Front St, Memphis, Tennessee 38101
Last Date in Agency List :	2015-07-10

RCRA_NONGEN

Facility Name :	AUTOZONE #5324
Facility Address :	14923 WHITESBRIDGE RD, KERMAN, CA 93630
County :	FRESNO
Date Form Received by Agency :	2010-09-13
EPA ID :	CAL000356836
Mailing Address :	DEPT 8190, 123 S FRONT ST, MEMPHIS, TN 38103-3607
Contact :	BRYAN BLAIR
Contact Address :	DEPT 8190, 123 SOUTH FRONT STREET, MEMPHIS, TN 38103
Contact Country :	N/R
Contact Telephone :	901-495-7217
Contact Email :	BRYAN.BLAIR@AUTOZONE.COM
EPA Region :	09
Land Type :	Not Reported

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE KERMAN
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
KERMAN | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

RCRA_NONGEN (cont.)

Source Type :	Implementer
Classification :	Not a generator, verified
Description :	Not a generator, verified
Last Date in Agency List :	2023-12-06

Owner/Operator Summary

Owner/Operator Name :	AUTO ZONE CORPORTATION
Owner/Operator Address :	123 S FRONT ST, MEMPHIS, TN 38103-3607
Owner/Operator Country :	N/R
Owner/Operator Telephone :	901-495-6500
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Owner
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Owner/Operator Name :	BRYAN BLAIR
Owner/Operator Address :	DEPT 8190, 123 SOUTH FRONT STREET, MEMPHIS, TN 38103
Owner/Operator Country :	N/R
Owner/Operator Telephone :	901-495-7217
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Other land type
Owner/Operator Type :	Operator
Owner/Operator Start Date :	N/R
Owner/Operator End Date :	N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N
On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

Map Id: 12
Direction: SE
Distance: 0.265 mi., 1402 ft.
Elevation: 223 ft.
Relative: Lower

Site Name : AUTOZONE #5324 | AUTOZONE Kerman
14923 WHITESBRIDGE RD | 14923 W
WHITESBRIDGE RD
Kerman | Kerman, CA 93630
Database(s) : [CIWQS - CA, ECHO, FRS, HAZNET - CA,
HWG - CA, MANIFEST EPA, NPDES - CA,
RCRA_NONGEN, SWRCY - CA] **(cont.)**

EnviroSite ID: 313001
EPA ID: CAL000356836

RCRA_NONGEN (cont.)

Notices of Violations Summary
Regulation Violated : N

SWRCY - CA

Facility Name : AutoZone #5324
Facility Address : 14923 Whitesbridge Road, Kerman, 93630
County : N/R

Site Details

ID Number : N/R
Activity Categories : N/R
Activities : N/R
Phone Number : (559) 846-5319
Type : UsedOil
Last Date in Agency List : 2023-06-27

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
Kerman | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]

EnviroSite ID: 484993
EPA ID: N/R

CUPA_FRESNO COUNTY - CA

Facility Name : SMITH AUTO PARTS
Facility Address : 187 S MADERA AVE, Kerman, 93630

Site Details

Facility ID : FA0278045
CERS ID : N/R
SWIS Number : N/R
APN : 02330507S
Cross Street : N/R
Last Date in Agency List : 2023-07-19

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
Kerman | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

CUPA_FRESNO COUNTY - CA **(cont.)**

Description

DESCRIPTION : HAZ MAT DISCLOSURE-BELOW REPORTING QUANTITY

ECHO

Facility Name : COUNTY OF FRESNO
Facility Address : 187 S MADERA AVE, Kerman, CA 93630
County : FRESNO

Last Inspection Date : N/R
Registry ID : 110070658210
FIPS Code : 06019
EPA Region : 09
Inspection Count : 0
Last Inspection Days : N/R
Informal Count : 0
Last Informal Action Date : N/R
Formal Action Count : 0
Last Formal Action Date : N/R
Total Penalties : 0
Penalty Count : N/R
Last Penalty Date : N/R
Last Penalty Amount : N/R
QTRS IN NC : 0
Programs IN SNC : 0
Current Compliance Status : No Violation Identified
Three-Year Compliance Status :
Collection Method : Zip Code Centroid
Reference Point : N/R
Accuracy Meters : 10000
Derived Tribes : N/R
Derived HUC : N/R
Derived WBD : N/R
Derived STCTY FIPS : N/R
Derived Zip : N/R
Derived CD113 : N/R
Derived CB2010 : N/R
MYRTK Universe : NNN
NPDES IDs : N/R
CWA Permit Types : N/R
CWA Compliance Tracking : N/R
CWA NAICS : N/R
CWA SICS : N/R
CWA Inspection Count : N/R
CWA Last Inspection Days : N/R
CWA Informal Count : N/R
CWA Formal Action Count : N/R
CWA Last Formal Action Date : N/R
CWA Penalties : N/R
CWA Last Penalty Date : N/R
CWA Last Penalty Amount : N/R
CWA Quarters IN NC : N/R

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
Kerman | Kerman, CA

Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

ECHO **(cont.)**

CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	92119 - Other General Government Support
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	36.734861
Longitude :	-120.072935
Last Date in Agency List :	2023-07-21

Facility Name :	GENUINE PARTS COMPANY DBA SMITH AUTO PARTS
Facility Address :	187 S MADERA AVE, Kerman, CA 93630
County :	FRESNO

Last Inspection Date :	N/R
Registry ID :	110070632897
FIPS Code :	06019
EPA Region :	09
Inspection Count :	0
Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R
Total Penalties :	0
Penalty Count :	N/R

Map Id: 13
 Direction: SSE
 Distance: 0.393 mi., 2073 ft.
 Elevation: 222 ft.
 Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
 COMPANY DBA SMITH AUTO PARTS |
 SMITH AUTO PARTS
 187 S MADERA AVE
 Kerman | Kerman, CA

Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
 HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

ECHO (cont.)

Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	Zip Code Centroid
Reference Point :	N/R
Accuracy Meters :	10000
Derived Tribes :	N/R
Derived HUC :	N/R
Derived WBD :	N/R
Derived STCTY FIPS :	N/R
Derived Zip :	N/R
Derived CD113 :	N/R
Derived CB2010 :	N/R
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	Click here for hyperlink provided by the agency.
Facility SIC :	N/R
Facility NAICS :	452319 - All Other General Merchandise Stores
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R
Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
KERMAN | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

ECHO (cont.)

AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	36.734861
Longitude :	-120.072935
Last Date in Agency List :	2023-07-21

HWG - CA

Facility Name :	COUNTY OF FRESNO
Facility Address :	187 S MADERA AVE, KERMAN, CA 93630
County :	FRESNO
EPA ID :	CAC003039141
Status :	Inactive
Category :	STATE
Type :	TEMPORARY
Facility Type :	N/R
Mailing Address :	2220 TULARE ST, FRESNO, CA 937212106
Owner Name :	JEROD WEEKS
Owner Address :	2220 TULARE ST, FRESNO, CA 937212106
Operator Name :	NAOMI MURPHY
Operator Address :	2220 TULARE ST, FRESNO, CA 937212106
Latitude :	36.732959
Longitude :	-120.060556

RCRA_NONGEN

Facility Name :	COUNTY OF FRESNO
Facility Address :	187 S MADERA AVE, KERMAN, CA 93630-1101
County :	FRESNO
Date Form Received by Agency :	2019-10-17
EPA ID :	CAC003039141
Mailing Address :	2220 TULARE ST, FRESNO, CA 93721-2106
Contact :	NAOMI MURPHY
Contact Address :	2220 TULARE ST, FRESNO, CA 93721-2106
Contact Country :	N/R
Contact Telephone :	559-600-0510
Contact Email :	NMURPHY@FRESNOCOUNTYCA.GOV
EPA Region :	09
Land Type :	Not Reported
Source Type :	Implementer
Classification :	Not a generator, verified

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
KERMAN | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

RCRA_NONGEN (cont.)

Description : Not a generator, verified
Last Date in Agency List : 2023-12-06

Owner/Operator Summary

Owner/Operator Name : JEROD WEEKS
Owner/Operator Address : 2220 TULARE ST, FRESNO, CA 93721-2106
Owner/Operator Country : N/R
Owner/Operator Telephone : 559-600-0431
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Owner
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Owner/Operator Name : NAOMI MURPHY
Owner/Operator Address : 2220 TULARE ST, FRESNO, CA 93721-2106
Owner/Operator Country : N/R
Owner/Operator Telephone : 559-600-0510
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Operator
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Handler Activities Summary

U.S. Importer of Hazardous Waste : N
Mixed Waste (Haz. and Radioactive) : N/R
Recycler of Hazardous Waste : N
Transporter of Hazardous Waste : N
Treater, Storer or Disposer of HW : N
Underground Injection Activity : N
On-site Burner Exemption : N
Furnace Exemption : N
Used Oil Fuel Burner : N
Used Oil Processor : N
Used Oil Refiner : N
Used Oil Fuel Marketer to Burner : N
Used Oil Specification Marketer : N
Used Oil Transfer Facility : N
Used Oil Transporter : N

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
KERMAN | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

Envirosite ID: 484993
EPA ID: N/R

RCRA_NONGEN (cont.)

Notices of Violations Summary Regulation Violated :

N

Facility Name : GENUINE PARTS COMPANY DBA SMITH AUTO PARTS
Facility Address : 187 S MADERA AVE, KERMAN, CA 93630
County : FRESNO

Date Form Received by Agency : 2019-10-31
EPA ID : CAL000450388
Mailing Address : 5675 E CLINTON, FRESNO, CA 93727
Contact : BROOKE MEZA
Contact Address : 5675 E CLINTON, FRESNO, CA 93727
Contact Country : N/R
Contact Telephone : 559-274-2497
Contact Email : BROOKE_MEZA@GENPT.COM
EPA Region : 09
Land Type : Not Reported
Source Type : Implementer
Classification : Not a generator, verified
Description : Not a generator, verified
Last Date in Agency List : 2023-12-06

Owner/Operator Summary

Owner/Operator Name : BROOKE MEZA
Owner/Operator Address : 5675 E CLINTON, FRESNO, CA 93727
Owner/Operator Country : N/R
Owner/Operator Telephone : 559-274-2497
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Operator
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Owner/Operator Name : GENUINE PARTS COMPANY
Owner/Operator Address : 2999 WILDWOOD PARKWAY, ATLANTA, GA 30339
Owner/Operator Country : N/R
Owner/Operator Telephone : 770-953-1700
Owner/Operator Email : N/R
Owner/Operator Fax : N/R
Legal Status : Other land type
Owner/Operator Type : Owner
Owner/Operator Start Date : N/R
Owner/Operator End Date : N/R

Map Id: 13
Direction: SSE
Distance: 0.393 mi., 2073 ft.
Elevation: 222 ft.
Relative: Lower

Site Name : COUNTY OF FRESNO | GENUINE PARTS
COMPANY DBA SMITH AUTO PARTS |
SMITH AUTO PARTS
187 S MADERA AVE
Kerman | Kerman, CA
Database(s) : [CUPA_FRESNO COUNTY - CA, ECHO,
HWG - CA, RCRA_NONGEN, SWRCY - CA]
(cont.)

EnviroSite ID: 484993
EPA ID: N/R

RCRA_NONGEN (cont.)

Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N/R
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N
On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

Notices of Violations Summary

Regulation Violated :	N
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SWRCY - CA

Facility Name :	Smith Auto Parts Inc.
Facility Address :	187 S. Madera Avenue, Kerman, 93630
County :	ALAMEDA

Site Details

ID Number :	N/R
Activity Categories :	N/R
Activities :	N/R
Phone Number :	(559) 734-1526
Type :	UsedOil
Last Date in Agency List :	2019-04-15

Map Id: 14
Direction: WSW
Distance: 0.420 mi., 2218 ft.
Elevation: 220 ft.
Relative: Lower

Site Name : CENTRAL VALLEY DIST/ HELENA
CHEMICAL CO | RON BROCK | RONALD
BROCK
36.734861, -120.072935

EnviroSite ID: 52675331
EPA ID: N/R

Database(s) : [PFAS INDUSTRY]

PFAS INDUSTRY

Facility Name : CENTRAL VALLEY DIST/ HELENA CHEMICAL CO

Status : Unknown
Industry : Chemical Mfg
EPA Program : N/R
State : CA
City : KERMAN
County : FRESNO
Fa SNC Flag : N
AIR Flag : N
NPDES Flag : N
SDWIS Flag : N
RCRA Flag : N
TRI Flag : N
GHG Flag : N
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Latitude : 36.734861
Longitude : -120.072935
Last Date in Agency List : 2023-11-24

Facility Name : RONALD BROCK

Status : Inactive
Industry : Petroleum
EPA Program : RCRA
State : CA
City : KERMAN
County : FRESNO
Fa SNC Flag : N
AIR Flag : N
NPDES Flag : N
SDWIS Flag : N
RCRA Flag : Y
TRI Flag : N
GHG Flag : N
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)
Latitude : 36.734861
Longitude : -120.072935
Last Date in Agency List : 2023-06-07

Facility Name : RON BROCK

Status : Inactive
Industry : Petroleum
EPA Program : RCRA
State : CA
City : KERMAN
County : FRESNO
Fa SNC Flag : N
AIR Flag : N

Map Id: 14
Direction: WSW
Distance: 0.420 mi., 2218 ft.
Elevation: 220 ft.
Relative: Lower

Site Name : CENTRAL VALLEY DIST/ HELENA
CHEMICAL CO | RON BROCK | RONALD
BROCK
36.734861, -120.072935

Envirosite ID: 52675331
EPA ID: N/R

Database(s) : [PFAS INDUSTRY] (cont.)

PFAS INDUSTRY (cont.)

NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Agency Hyperlink :	Click here for hyperlink provided by the agency.
Latitude :	36.734861
Longitude :	-120.072935
Last Date in Agency List :	2023-11-24

<u>ENVIROSITE ID</u>	<u>NAME</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>ZIP</u>	<u>DATABASE(S)</u>
<u>9012916</u>	ANDERSON COALINGA	NW 1/4, SEC 8, T20S, R15E, MD...			HIST LDS - CA
<u>9005626</u>	COALINGA	SECTION 14, T20S, R14E, M...			LDS - CA
<u>8998964</u>	COALINGA, CMS	SECTION 31, T19S, R15E, M...			HIST LDS - CA
<u>8999002</u>	COALINGA, CMS-AZTEC	SEC 31, T19S, R15E, MDB&M			HIST LDS - CA
<u>8999038</u>	COALINGA, PENN-ZIER	SEC 1, T20S, R14E, MDB&M			HIST LDS - CA
<u>8999095</u>	COALINGA, SEC 2	SECTION 2, T19S, R15E, MD...			CIWQS - CA, HIST LDS...
<u>8999112</u>	COALINGA, SEC 26	SEC 26, T19S, R15E, MDB&M			HIST LDS - CA
<u>8998926</u>	Coalinga, Section 35A + C...	Sec 35, T19S, R15E, Mdb&M			HIST LDS - CA, RFR - CA
<u>9007915</u>	JACALITOS	SEC 27, T21S, R15E, MDB&M			CIWQS - CA, LDS - CA
<u>6912870</u>	KERMAN CITY DUMPSITE #1	AMERICAN AVENUE	KERMAN	93630	ENVIROSTOR - CA, HIS...
<u>32491948</u>	KERMAN CITY DUMPSITE #2	NEAR LASSEN & JENSEN	KERMAN	93630	ENVIROSTOR - CA, HIS...
<u>7381938</u>	KERMAN R O P AUTO TECH	CLINTON MADERA AVE	KERMAN	93630	HAZNET - CA, HWG - CA
<u>6942048</u>	MT. CAMPBELL RIFLE RANGE ...	N/R			HIST MCS - CA, MCS - CA
<u>42447940</u>	PG&E GTP T-1257 Helm	S. Madera Ave	HELM	93630	MANIFEST EPA
<u>9010964</u>	PLEASANT VALLEY, GATCHELL	SECTION 20, T20S, R16E, M...			CIWQS - CA, LDS - CA
<u>9011290</u>	RAISIN CITY FULLER	SW1/4, NE1/4, SEC13, T15S, R1...			CIWQS - CA, LDS - CA
<u>9011313</u>	RAISIN CITY HAMILTON (2)	N1/2SE1/4, NW1/4, SEC13, T15...			CIWQS - CA, LDS - CA
<u>8999845</u>	Raisin City Oil Field, Su...	SE 1/4, NE 1/4, Section 1...	Kerman	93630	HIST LDS - CA
<u>9011345</u>	RAISIN CITY VARIOUS LEASE...	T15S, R17E & 18E, MDB&M			CIWQS - CA, LDS - CA
<u>9011371</u>	RAISIN CITY, EAGLE SUNSET	SW1/4, SEC11, T15S, R17E, ...			CIWQS - CA, LDS - CA
<u>9011389</u>	RAISIN CITY, EAGLE-SUNSET...	SW1/4NW1/4, SEC19, T15S, ...			CIWQS - CA, LDS - CA
<u>9011416</u>	RAISIN CITY, EAGLE-SUNSET...	SEC 19, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
<u>6921790</u>	Raisin City, Hamilton	Sec 13, T15S, R18, Mdb&M			CIWQS - CA, CIWQS 2...
<u>9975546</u>	RAISIN CITY, HAMILTON	Temblor Petro - SEC 13, T...	Kerman		OIL & GAS CLEANUP - CA
<u>9011440</u>	RAISIN CITY, HAMILTON	SE1/2, NW1/4, SEC13, T15S, R1...			CIWQS - CA, LDS - CA
<u>9011463</u>	RAISIN CITY, NCC	SE1/4, SE1/4, SEC10, T15S...			CIWQS - CA, LDS - CA
<u>9011496</u>	RAISIN CITY, PROPERTIES, ...	SEC 18, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
<u>9011516</u>	RAISIN CITY, RAISIN CITY...	SE1/4, NW1/4, SEC19, T15S, R1...			CIWQS - CA, LDS - CA
<u>9011691</u>	RAISIN CITY, SURFLUH (08)	SE1/4, NE1/4, SEC14, T15S, R1...			LDS - CA
<u>48013491</u>	Waste Recovery West, Inc.	7220 NW O Neil Hwy	Kerman	93630	HAULERS - CA

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

RCRA_TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 11/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/14/2024

Agency: Department of Homeland Security
Agency Contact: 202-853-5361
Most Recent Contact: 11/20/2023

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 07/11/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/28/2024

Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 01/02/2024

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 06/07/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 11/28/2023

HIST INDIAN UST R6: Historical Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 12/03/2021
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/18/2024

Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 01/23/2024

HIST INDIAN UST R7: Historical Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 08/10/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/08/2024

Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 01/11/2024

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 12/19/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/14/2024

Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: N/R
Most Recent Contact: 12/19/2023

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 10/18/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/09/2024

Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 01/12/2024

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/15/2024

Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: N/R
Most Recent Contact: 12/20/2023

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 01/30/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/09/2024

Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 01/12/2024

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/28/2024

Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 01/02/2024

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 10/31/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 01/25/2024

Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 10/31/2023

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/28/2024

Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 01/02/2024

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 12/18/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/13/2024

Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 12/18/2023

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 12/15/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/12/2024

Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: N/R
Most Recent Contact: 12/15/2023

AST - CA: Listing of tank facilities that are subject to the California Aboveground Petroleum Storage Act

Agency Version Date: 11/29/2023
Agency Update Frequency: No update
Planned Next Contact: 02/23/2024

Agency: California Environmental Protection Agency Unified Program
Section
Agency Contact: 916-327-5092
Most Recent Contact: 11/29/2023

AST_KERN COUNTY - CA: Kern County aboveground storage tank sites

Agency Version Date: 11/16/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/12/2024

Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 11/16/2023

AST_ORANGE COUNTY - CA: Orange county aboveground storage tanks

Agency Version Date: 10/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2024

Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 01/16/2024

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

AST_PLACER COUNTY - CA: Placer county aboveground storage tank sites

Agency Version Date: 12/21/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/18/2024

Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 12/21/2023

AST_YOLO COUNTY - CA: Yolo county above ground storage tank sites listing

Agency Version Date: 10/05/2023
Agency Update Frequency: Annually
Planned Next Contact: 03/27/2024

Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 01/01/2024

CLOSED UST_VENTURA COUNTY - CA: Ventura County closed underground storage tank site listing

Agency Version Date: 01/01/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/27/2024

Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 01/01/2024

FID UST - CA: The State Water Resource Control Board's Facility Inventory Database underground storage tank locations listing

Agency Version Date: 11/02/2023
Agency Update Frequency: Varies
Planned Next Contact: 01/29/2024

Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 11/02/2023

HIST AST - CA: Historical listing of tank facilities that are subject to the California Aboveground Petroleum Storage Act

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 02/28/2024

Agency: California Environmental Protection Agency Unified Program
Section
Agency Contact: 916-327-5092
Most Recent Contact: 12/04/2023

HIST UST - CA: Historical UST listing

Agency Version Date: 08/24/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/14/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 11/20/2023

HIST UST_EL SEGUNDO CITY - CA: List of City of El Segundo Underground Storage Tanks that are no longer in current agency list.

Agency Version Date: 01/29/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/14/2024

Agency: City of El Segundo Fire Department
Agency Contact: 310-524-2242
Most Recent Contact: 11/20/2023

HIST UST_KERN COUNTY - CA: List of Kern County underground storage tank records that is no longer in current agency list.

Agency Version Date: 11/28/2018
Agency Update Frequency: Annually
Planned Next Contact: 01/29/2024

Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 11/02/2023

HIST UST_SUTTER COUNTY - CA: List of Sutter County Underground Storage Tank records that are no longer in current agency list.

Agency Version Date: 10/22/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/28/2024

Agency: Sutter County Department of Agriculture
Agency Contact: 530-822-7400
Most Recent Contact: 12/04/2023

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

TANKS_CONTRA COSTA COUNTY - CA: Listing of aboveground storage tanks in Contra Costa County

Agency Version Date: 10/11/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/02/2024

Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 01/05/2024

UST - CA: Listing of active underground storage tank facilities

Agency Version Date: 11/02/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 01/29/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 11/02/2023

UST_ALAMEDA COUNTY - CA: Alameda County Underground Storage Tank sites

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 11/01/2023

UST_CITY OF LONG BEACH - CA: City of Long Beach underground storage tank sites

Agency Version Date: 06/29/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/05/2024

Agency: City of Long Beach Fire Department
Agency Contact: 562-570-6782
Most Recent Contact: 01/10/2024

UST_CITY OF TORRANCE - CA: City of Torrance underground storage tank sites

Agency Version Date: 12/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/23/2024

Agency: City of Torrance Fire Department
Agency Contact: 310-618-2872
Most Recent Contact: 12/28/2023

UST_EL SEGUNDO CITY - CA: City of El Segundo Underground Storage Tanks

Agency Version Date: 01/29/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/22/2024

Agency: City of El Segundo Fire Department
Agency Contact: 310-524-2242
Most Recent Contact: 11/28/2023

UST_KERN COUNTY - CA: Kern County underground storage tank sites

Agency Version Date: 11/16/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/12/2024

Agency: Kern County Environment Health Division
Agency Contact: 661-862-8774
Most Recent Contact: 11/16/2023

UST_MARIN COUNTY - CA: Marin county underground storage tank sites

Agency Version Date: 08/04/2018
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/01/2024

Agency: Marin County Department of Public Works
Agency Contact: 415-473-5051
Most Recent Contact: 01/04/2024

UST_MENDOCINO COUNTY - CA: A listing of underground storage tank locations in Mendocino County

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 11/01/2023

UST_NAPA COUNTY - CA: Underground storage tank sites located in Napa county.

Agency Version Date: 03/03/2022
Agency Update Frequency: Varies
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 11/01/2023

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

UST_ORANGE COUNTY - CA: Orange county underground storage tanks

Agency Version Date: 01/11/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 04/08/2024

Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 01/11/2024

UST_PLACER COUNTY - CA: Placer county underground storage tank sites

Agency Version Date: 12/21/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/18/2024

Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 12/21/2023

UST_RIVERSIDE COUNTY - CA: Riverside county underground storage tank sites

Agency Version Date: 03/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 11/01/2023

UST_SAN FRANCISCO COUNTY - CA: San Francisco county Underground storage tank sites listing

Agency Version Date: 10/27/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/19/2024

Agency: San Francisco Department of Public Health
Agency Contact: N/R
Most Recent Contact: 01/23/2024

UST_SAN JOAQUIN COUNTY - CA: San Joaquin County Underground storage tank sites listing

Agency Version Date: 03/03/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 11/01/2023

UST_SANTA CLARA COUNTY - CA: Santa Clara County Underground storage tank sites listing.

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: Department of Environmental Health
Agency Contact: N/R
Most Recent Contact: 11/28/2023

UST_SOLANO COUNTY - CA: Solano county underground storage tank listing

Agency Version Date: 03/03/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 01/26/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: N/R
Most Recent Contact: 11/01/2023

UST_SUTTER COUNTY - CA: Sutter county underground storage tank listing

Agency Version Date: 12/22/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/19/2024

Agency: Sutter County Department of Agriculture
Agency Contact: 530-822-7400
Most Recent Contact: 12/22/2023

UST_YOLO COUNTY - CA: Yolo county underground storage tank sites listing

Agency Version Date: 10/16/2023
Agency Update Frequency: Annually
Planned Next Contact: 04/05/2024

Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 01/10/2024

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 12/28/2023

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 12/28/2023

EPA SAA: Listing of Sites with Superfund Alternative Approach Agreements.

Agency Version Date: 10/04/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/26/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 12/29/2023

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 12/28/2023

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 11/28/2023

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 01/19/2024

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

SEMS_DELETED NPL: All Deleted National Priority List Sites

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 11/27/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/21/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 11/27/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 07/11/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/28/2024

Agency: EPA
Agency Contact: (202) 566-1667
Most Recent Contact: 01/02/2024

HIST INDIAN LUST R4: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 08/23/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 04/08/2024

Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 01/11/2024

HIST INDIAN LUST R8: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 01/03/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 01/03/2024

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 12/19/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/14/2024

Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: N/R
Most Recent Contact: 12/19/2023

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 10/18/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/09/2024

Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 01/12/2024

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)**INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2**

Agency Version Date: 12/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/15/2024

Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: N/R
Most Recent Contact: 12/20/2023

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 01/30/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 04/09/2024

Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 01/12/2024

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 10/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/28/2024

Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 01/02/2024

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 10/10/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/01/2024

Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 01/04/2024

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/28/2024

Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 01/02/2024

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 10/09/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 01/03/2024

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 12/14/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/11/2024

Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 12/14/2023

HIST LUST SONOMA COUNTY - CA: List of Sonoma County leaking underground storage tank sites that is no longer in current agency list.

Agency Version Date: 08/23/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/22/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 11/28/2023

LUFT_ALAMEDA COUNTY - CA: Listing of Alameda County leaking underground fuel tank sites

Agency Version Date: 01/15/2024
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/10/2024

Agency: Alameda County Environmental Health Services
Agency Contact: 510-567-6721
Most Recent Contact: 01/15/2024

LUST ORANGE COUNTY - CA: Orange county leaking underground storage tanks

Agency Version Date: 12/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/15/2024

Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 12/20/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

LUST REG 1 - CA: Leaking underground storage tanks in Region 1: Del Norte Glenn Humboldt Lake Marin Mendocino Modoc Siskiyou Sonoma and Trinity counties.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 2 - CA: Leaking underground storage tanks in Region 2: Alameda Contra Costa San Francisco Santa Clara (north of Morgan Hill) San Mateo Marin Sonoma Napa Solano counties

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 3 - CA: Leaking underground storage tanks in Region 3: Santa Clara (south of Morgan Hill) San Mateo (southern part) Santa Cruz San Benito Monterey Kern (some parts) San Luis Obispo Santa Barbara Ventura (northern part) counties

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 4 - CA: Leaking underground storage tanks in Region 4: Los Angeles Ventura counties (Small parts of Kern and Santa Barbara counties).

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 5 - CA: Leaking underground storage tanks in Region 5: Modoc Shasta Lassen Plumas Butte Glen Colusa Lake Sutter Yuba Sierra Nevada Placer Yolo Napa (Northeast) Solano (West) Sacramento El Dorado Amador Calaveras San Joaquin Contra Costa (East) Stanislaus Toulumne Merced Mariposa Madera Kings Fresno Tulare Kern (Very small portions of San Benito and San Luis Obispo) counties

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 6 - CA: Leaking underground storage tanks in Region 6: Modoc (East) Lassen (East side and Eagle Lake) Sierra Nevada Placer El Dorado Alpine Mono Inyo Kern (East) San Bernardino Los Angeles (Northeast corner) counties

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 7 - CA: Leaking underground storage tanks in Region 7: Imperial San Bernardino Riverside and San Diego counties.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST REG 8 - CA: Leaking underground storage tanks in Region 8: Orange Riverside San Bernardino counties.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

LUST REG 9 - CA: Leaking underground storage tanks in Region 9: San Diego Imperial Riverside counties.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_HAZMAT_YOLO COUNTY - CA: Yolo county leaking underground storage tank sites listing

Agency Version Date: 12/22/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/19/2024

Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 12/22/2023

LUST_KERN COUNTY - CA: Kern County leaking underground tank sites

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control bo
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_RIVERSIDE COUNTY - CA: Riverside county leaking underground storage tank sites

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_SAN FRANCISCO COUNTY - CA: A listing of leaking underground storage tank sites located in San Francisco county.

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_SAN MATEO COUNTY - CA: San Mateo county leaking underground storage tank listing

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_SOLANO COUNTY - CA: Solano county leaking underground storage tank listing

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_SONOMA COUNTY - CA: Sonoma county leaking underground storage tank sites listing

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_SUTTER COUNTY - CA: Sutter County Leaking Underground Storage Tanks

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LUST_VENTURA COUNTY - CA: Ventura County leaking underground storage tank site listing

Agency Version Date: 12/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: CA Gov geotracker state water resources control board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

SLIC REG 1 - CA: List of Region 1 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 2 - CA: List of Region 2 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 3 - CA: List of Region 3 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 4 - CA: List of Region 4 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 5 - CA: List of Region 5 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 6 - CA: List of Region 6 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database that is no longer in current agency list.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 7 - CA: List of Region 7 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 8 - CA: List of Region 8 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SLIC REG 9 - CA: List of Region 9 sites from GeoTracker Site Cleanup Program (formerly known as SLIC) database that is no longer in current agency list.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

SLIC_ALAMEDA COUNTY - CA: Listing of spills leaks investigation & cleanup sites

Agency Version Date: 01/01/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 03/27/2024

Agency: Alameda County Environmental Health Services
Agency Contact: N/R
Most Recent Contact: 01/01/2024

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 12/22/2023
Agency Update Frequency: Annually
Planned Next Contact: 03/19/2024

Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 12/22/2023

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 01/19/2024
Agency Update Frequency: Varies
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 04/19/2024

FED I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 01/19/2024
Agency Update Frequency: Varies
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/19/2024

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 01/03/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/29/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 01/03/2024

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 01/19/2024

HIST RCRA_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 01/22/2024

HIST RCRA_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 01/19/2024

FEDERAL RCRA GENERATORS LIST (cont.)

HIST RCRA_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/16/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 01/19/2024

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 11/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 11/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

RCRA_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 11/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 11/28/2023

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 12/28/2023

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 12/28/2023

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 12/28/2023

FEDERAL NPL SITE LIST (cont.)

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 12/28/2023

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 12/28/2023

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

STATE- AND TRIBAL - EQUIVALENT CERCLIS

ENVIROSTOR - CA: Department of Toxic Substances Controls

Agency Version Date: 11/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 11/22/2023

HIST TOXIC PITS - CA: Listing of Toxic Pit Cleanup Act sites that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 03/04/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 12/07/2023

OIL & GAS CLEANUP - CA: List of SWRCB Oil & Gas Cleanup Sites from GeoTracker Site Cleanup Program database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

STATE- AND TRIBAL - EQUIVALENT CERCLIS (cont.)

SWRCB CLEANUP - CA: List of SWRCB Cleanups from Geotracker including CAF, Sampling Points, and Projects.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

SWRCB NON_CASE - CA: List of SWRCB Non-Case sites from GeoTracker Site Cleanup Program database.

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: California Regional Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

TOXIC PITS - CA: Listing of Toxic Pit Cleanup Act sites

Agency Version Date: 12/06/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/01/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 12/06/2023

STATE- AND TRIBAL - EQUIVALENT NPL

HIST RESPONSE - CA: List of state response sites with confirmed releases and potential high risk that are no longer in current agency list.

Agency Version Date: 10/17/2017
Agency Update Frequency: Annually
Planned Next Contact: 04/08/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 01/11/2024

RESPONSE - CA: State response sites with confirmed releases and potential high risk

Agency Version Date: 11/22/2023
Agency Update Frequency: Annually
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-327-1077
Most Recent Contact: 11/22/2023

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST SWF/LF - CA: List of Solid Waste Information System's solid waste facilities and landfills that is no longer in current agency list.

Agency Version Date: 03/05/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/04/2024

Agency: Department of Resources Recycling and Recovery
Agency Contact: 916-341-6066
Most Recent Contact: 01/09/2024

SWF/LF - CA: Solid Waste Information System's facility listing of solid waste facilities and landfills

Agency Version Date: 11/10/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/06/2024

Agency: Department of Resources Recycling and Recovery
Agency Contact: 916-341-6066
Most Recent Contact: 11/10/2023

STATE RCRA GENERATORS LIST

HWG - CA: Hazardous waste generator listing

Agency Version Date: 11/15/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/09/2024

Agency: Department of Toxic Substances Control
Agency Contact: N/R
Most Recent Contact: 11/15/2023

STATE RCRA GENERATORS LIST (cont.)

HWG_YOLO COUNTY - CA: Listing of permitted hazardous waste generators

Agency Version Date: 12/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/19/2024

Agency: Yolo County Environmental Health
Agency Contact: 530-666-8646
Most Recent Contact: 12/22/2023

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/12/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 11/16/2023

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - CA: Voluntary Cleanup Program remediation sites listing

Agency Version Date: 11/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/22/2023

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 11/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/07/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 11/13/2023

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 07/03/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/20/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 12/25/2023

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 12/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/08/2024

Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 12/13/2023

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 01/15/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 04/10/2024

Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 01/15/2024

CALARP_KERN COUNTY - CA: Kern County hazardous material permitted facilities

Agency Version Date: 05/08/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/18/2024

Agency: County of Kern Public Health Services Department
Agency Contact: 661-862-8740
Most Recent Contact: 01/23/2024

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)

CASE LIST_SAN DIEGO COUNTY - CA: San Diego county listing of hazardous chemical releases

Agency Version Date: 09/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/20/2024

Agency: County of San Diego Department of Environmental Health
Agency Contact: 619-338-2259
Most Recent Contact: 12/25/2023

CDL - CA: Listing of Meth and clandestine drug labs maintained by the Department of Toxic Substances Control

Agency Version Date: 11/29/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/23/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/29/2023

CORRECTIVE ACTION_RIVERSIDE COUNTY - CA: Riverside county corrective action sites list

Agency Version Date: 11/15/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/07/2024

Agency: Riverside County Environmental Health
Agency Contact: 888-722-4234
Most Recent Contact: 11/13/2023

CS_NAPA COUNTY - CA: Napa county listing of Contaminated sites

Agency Version Date: 07/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/22/2024

Agency: Napa County Department of Environmental Management
Agency Contact: 707-253-4471
Most Recent Contact: 12/27/2023

CS_PLACER COUNTY - CA: Placer county cleanup sites listing

Agency Version Date: 12/21/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/18/2024

Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 12/21/2023

SCH - CA: Listing of possible hazardous material contamination sites on existing school properties

Agency Version Date: 07/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/20/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 12/25/2023

SITE LIST_CONTRA COSTA COUNTY - CA: Listing of underground tank hazardous waste generator and business plan sites in Contra Costa County

Agency Version Date: 10/11/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/02/2024

Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 01/05/2024

TOXIC SITE_SACRAMENTO COUNTY - CA: Sacramento County listing of historical sites where unauthorized releases of potentially hazardous materials have occurred

Agency Version Date: 08/24/2021
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/11/2024

Agency: Sacramento County Environmental Management
Agency Contact: 916-875-8550
Most Recent Contact: 01/16/2024

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 11/20/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/14/2024

Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 11/20/2023

RECORDS OF EMERGENCY RELEASE REPORTS (cont.)

CHMIRS - CA: California Hazardous Material Incident Reporting System's reported accidental hazardous material incidents releases or spills

Agency Version Date: 12/08/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/05/2024

Agency: California Emergency Management Agency
Agency Contact: 916-845-8275
Most Recent Contact: 12/08/2023

HIST CHMIRS - CA: California Hazardous Material Incident Reporting System's reported accidental hazardous material incidents releases or spills

Agency Version Date: 04/06/2017
Agency Update Frequency: Quarterly
Planned Next Contact: 04/04/2024

Agency: California Emergency Management Agency
Agency Contact: 916-845-8275
Most Recent Contact: 01/09/2024

INDUSTRIAL CLEANUP_ORANGE COUNTY - CA: Petroleum and non-petroleum industrial spills

Agency Version Date: 10/27/2023
Agency Update Frequency: Annually
Planned Next Contact: 01/23/2024

Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 10/27/2023

SML_LOS ANGELES COUNTY - CA: Listing of all Emergency Response session spills

Agency Version Date: 12/19/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/14/2024

Agency: Los Angeles Department of Public Health
Agency Contact: N/R
Most Recent Contact: 12/19/2023

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/13/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 11/17/2023

DEED - CA: The Department of Toxic Substances Control's listing of property locations with Deed restrictions

Agency Version Date: 12/27/2023
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/22/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-341-5791
Most Recent Contact: 12/27/2023

HIST LIENS - CA: The Department of Toxic Substances Control's listing of property locations with environmental liens that is no longer in current agency list.

Agency Version Date: 12/04/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/01/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/04/2024

LIENS - CA: The Department of Toxic Substances Control's listing of property locations with environmental liens

Agency Version Date: 11/10/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/06/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/10/2023

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 03/01/2024

Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 12/06/2023

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 07/21/2022
Agency Update Frequency: Varies
Planned Next Contact: 02/14/2024

Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 11/20/2023

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 04/05/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 01/10/2024

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 10/26/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/17/2024

Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 01/22/2024

HAULERS - CA: Waste Tire Manifest Program Hauler Registration listing

Agency Version Date: 06/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/20/2024

Agency: California Department of Resources Recycling and Recovery (CalRecycle)
Agency Contact: 916-341-6066
Most Recent Contact: 11/24/2023

LF_SAN DIEGO COUNTY - CA: San Diego county landfill listing

Agency Version Date: 07/07/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: County of San Diego Department of Environmental Health
Agency Contact: 858-694-2801
Most Recent Contact: 12/28/2023

SWF_LOS ANGELES COUNTY - CA: Listing of Los Angeles County solid waste facilities

Agency Version Date: 05/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/17/2024

Agency: LA County Department of Public Works
Agency Contact: 800-320-1771
Most Recent Contact: 01/22/2024

SWRCY - CA: Listing of facilities which perform recycled material processing activities

Agency Version Date: 04/27/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2024

Agency: California Department of Resources Recycling and Recovery (CalRecycle)
Agency Contact: 916-341-6066
Most Recent Contact: 01/16/2024

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 07/07/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 12/28/2023

OTHER ASCERTAINABLE RECORDS (cont.)

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 11/27/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/21/2024

Agency: U.S. Department of Energy
Agency Contact: N/R
Most Recent Contact: 11/27/2023

ARENAS: List of Arenas and Sport Venues

Agency Version Date: 04/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/16/2024

ARENAS 2: List of Convention Centers and Fairgrounds

Agency Version Date: 07/24/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/09/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/12/2024

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 11/28/2023
Agency Update Frequency: Biennial
Planned Next Contact: 02/22/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/28/2023

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 12/28/2023

CHURCHES: List of places of worship

Agency Version Date: 07/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/15/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/18/2024

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 11/15/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/09/2024

Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 11/15/2023

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 02/18/2021
Agency Update Frequency: Varies
Planned Next Contact: 03/29/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/03/2024

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 12/04/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/28/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 12/04/2023

COLLEGES: List of major Universities & Colleges

Agency Version Date: 12/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/14/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/19/2023

OTHER ASCERTAINABLE RECORDS (cont.)

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 07/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/20/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/25/2023

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 12/28/2023

CORRECTIVE ACTIONS 2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/19/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 03/14/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 12/19/2023

DAYCARE: List of Daycare facilities

Agency Version Date: 12/18/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/13/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/18/2023

DEBRIS EPA LF: EPA list of designated landfill facilities for the safe disposal of disaster debris.

Agency Version Date: 12/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/08/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 12/13/2023

DEBRIS EPA SWRCY: EPA list of facilities for the safe recovery, recycling, and disposal of disaster debris.

Agency Version Date: 12/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/08/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 12/13/2023

DOCKET CRIM PROS 2: Criminal affirmative cases filed by the United States involving CAA CWA CERCLA EPCRA FIFRA MPRSA RCRA & TSCA.

Agency Version Date: 06/06/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/21/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1744
Most Recent Contact: 11/27/2023

DOD: Department of Defense sites from the Protected Areas Database (PAD-US)

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 12/28/2023

DOT OPS: Incident Data Report

Agency Version Date: 04/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 01/16/2024

OTHER ASCERTAINABLE RECORDS (cont.)

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 06/02/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/19/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 11/23/2023

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 03/19/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 02/02/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/08/2023

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 10/09/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 01/03/2024

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 05/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/12/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 11/16/2023

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/12/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 11/16/2023

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 06/16/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/04/2024

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 12/07/2023

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 12/28/2023

FRS: Facility Registry Systems

Agency Version Date: 10/11/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/02/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/05/2024

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/06/2013
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/26/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 11/30/2023

OTHER ASCERTAINABLE RECORDS (cont.)

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/19/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 11/23/2023

FUDS: Defense sites that require cleanup

Agency Version Date: 10/12/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/03/2024

Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 01/08/2024

GOV MANSIONS: List of Governors Mansions

Agency Version Date: 04/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 01/16/2024

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 02/12/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/16/2023

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 03/12/2024

Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 12/15/2023

HIST DOD: Department of Defense historical sites

Agency Version Date: 10/03/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 03/25/2024

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 12/28/2023

HIST LEAD_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/27/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 12/01/2023

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016
Agency Update Frequency: Annually
Planned Next Contact: 03/06/2024

Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 12/11/2023

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018
Agency Update Frequency: No Update
Planned Next Contact: 03/26/2024

Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 12/29/2023

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/09/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 01/12/2024

OTHER ASCERTAINABLE RECORDS (cont.)

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/09/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 01/12/2024

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 01/02/2024
Agency Update Frequency: Annually
Planned Next Contact: 03/28/2024

Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/02/2024

HOSPITALS: List of major Hospitals

Agency Version Date: 12/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/14/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/19/2023

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 01/03/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 01/03/2024

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 06/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/27/2023

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 06/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 11/27/2023

INDIAN RESERVATION: American Indian Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: United States Geologic Survey (USGS)
Agency Contact: 1-888-275-8747
Most Recent Contact: 12/28/2023

LUCIS: Land Use Control Information Systems

Agency Version Date: 11/24/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/20/2024

Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 11/24/2023

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/01/2024
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 03/27/2024

Agency: Department of the Navy: BRAC PMO
Agency Contact: N/R
Most Recent Contact: 01/01/2024

OTHER ASCERTAINABLE RECORDS (cont.)

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest)

Agency Version Date: 10/12/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/03/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 01/08/2024

MGP: Locations of all Manufactured Gas Plants

Agency Version Date: 10/19/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/10/2024

Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/15/2024

MINE OPERATIONS: Mine plants and operations for commodities monitored by the National Minerals Information Center of the USGS

Agency Version Date: 04/25/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/05/2024

Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 01/10/2024

MINES: Mines Master Index Files

Agency Version Date: 06/07/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 11/28/2023

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 04/25/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/05/2024

Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 01/10/2024

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 07/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/19/2024

Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 12/22/2023

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 12/28/2023

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

NURSING HOMES: List of Nursing Homes

Agency Version Date: 12/18/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/13/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/18/2023

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 06/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/20/2024

Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 11/24/2023

OTHER ASCERTAINABLE RECORDS (cont.)

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 12/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/22/2024

Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 12/27/2023

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 10/16/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/05/2024

Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 01/10/2024

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 06/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 11/27/2023

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 06/06/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 11/27/2023

PFAS FED SITES: PFAS Detection on Federal Facilities

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

PFAS INDUSTRY: List of Industries potentially handling PFAS

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

PFAS MANIFEST: PFAS Transfer Manifest

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

PFAS NPL: List of NPL sites with PFAS or PFOA contamination

Agency Version Date: 12/11/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/04/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/11/2023

PFAS PROD: PFAS Production Sites

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

PFAS SPILLS: List of PFAS Spill Sites

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

OTHER ASCERTAINABLE RECORDS (cont.)

PFAS TRIS: List of TRIS sites where PFAS or PFOA are used/manufactured/ treated/ transported/released.

Agency Version Date: 11/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/27/2023

PFAS UCMR3: List of PWS wells sampled for Unregulated Contaminant Monitoring Rule (UCMR)

Agency Version Date: 06/02/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 02/02/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 11/08/2023

PFAS WQP: List of PFAS from Water Quality Portal

Agency Version Date: 10/26/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/17/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 01/22/2024

PRISONS: List of Prison facilities

Agency Version Date: 08/17/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/07/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 11/13/2023

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 12/18/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/13/2024

Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 12/18/2023

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019
Agency Update Frequency: Varies
Planned Next Contact: 03/01/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 12/06/2023

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 06/14/2023
Agency Update Frequency: Monthly
Planned Next Contact: 02/29/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 12/05/2023

ROD: Permanent remedy at an NPL site

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 12/28/2023

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 12/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/14/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/19/2023

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 12/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/14/2024

Agency: DHS Homeland Infrastructure Foundation
Agency Contact: N/R
Most Recent Contact: 12/19/2023

OTHER ASCERTAINABLE RECORDS (cont.)

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 11/03/2023
Agency Update Frequency: No Update
Planned Next Contact: 01/30/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/03/2023

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 10/03/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 12/28/2023

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 05/18/2023
Agency Update Frequency: Annually
Planned Next Contact: 02/05/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/09/2023

STORMWATER: Permitted storm water sites

Agency Version Date: 11/20/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/14/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/20/2023

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 08/22/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/12/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/16/2023

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 11/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 11/27/2023

UMTRA: Uranium Recovery Sites

Agency Version Date: 08/31/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/21/2024

Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 11/27/2023

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021
Agency Update Frequency: Varies
Planned Next Contact: 02/05/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 11/09/2023

AOC_SAN GABRIEL VALLEY - CA: San Gabriel Valley Superfund sites

Agency Version Date: 10/03/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/25/2024

Agency: U.S. Environmental Protection Agency
Agency Contact: 415-972-3181
Most Recent Contact: 12/28/2023

OTHER ASCERTAINABLE RECORDS (cont.)

BOND EXPENDITURE PLAN - CA: Hazardous Substance Cleanup Bond Act of 1984 Article 7.5 of Health and Safety Code 25385 listing of orphan sites

Agency Version Date: 11/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/22/2023

BP HW OUT_VENTURA COUNTY - CA: Ventura County Business Plan Hazardous Waste Producers and Operating Underground Tanks

Agency Version Date: 04/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/04/2024

Agency: Ventura County Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 01/09/2024

BUSINESS INVENTORY_SAN MATEO COUNTY - CA: San Mateo County listing of underground storage tanks, hazardous materials, business plans, and hazardous waste generators

Agency Version Date: 06/15/2023
Agency Update Frequency: Annually
Planned Next Contact: 03/01/2024

Agency: San Mateo County Environmental Health Services Division
Agency Contact: 650-372-6200
Most Recent Contact: 12/06/2023

CALEPA SITES - CA: CalEPA Regulated Sites from the Certified Unified Program Agencies (CUPA).

Agency Version Date: 06/08/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/22/2024

Agency: California Environmental Protection Agency Unified Program Section
Agency Contact: 916-327-5092
Most Recent Contact: 11/28/2023

CIWQS - CA: California Integrated Water Quality System database facilities listing which includes owner information, violations, inspections, and other regulatory matters

Agency Version Date: 05/26/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/12/2024

Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 11/16/2023

CIWQS 2 - CA: California Integrated Water Quality System database facilities listing which includes owner information violations inspections and other regulatory matters

Agency Version Date: 12/06/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/01/2024

Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/06/2023

CORTESE - CA: Compliance document used in providing information about the location of hazardous material release sites utilized by the state local agencies and developers

Agency Version Date: 12/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/15/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 12/20/2023

CUPA_BUTTE COUNTY - CA: Listing of the Butte County Certified Unified Program Agency's hazardous material program sites

Agency Version Date: 03/19/2023
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/17/2024

Agency: Butte County Environmental Health
Agency Contact: 530.538.7281
Most Recent Contact: 01/22/2024

CUPA_FRESNO COUNTY - CA: Listing of the Fresno County Certified Unified Program Agency's hazardous material program sites

Agency Version Date: 06/06/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/20/2024

Agency: Fresno County Department of Public Health
Agency Contact: 559-600-3271
Most Recent Contact: 11/24/2023

OTHER ASCERTAINABLE RECORDS (cont.)

CUPA_PLACER COUNTY - CA: Listing of the Placer County Certified Unified Program Agency's hazardous material program sites

Agency Version Date: 12/21/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/18/2024

Agency: Placer County Environmental Health
Agency Contact: 530-745-2350
Most Recent Contact: 12/21/2023

DAYCARE - CA: List of daycare locations

Agency Version Date: 12/18/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/13/2024

Agency: California Department of Social Services
Agency Contact: N/R
Most Recent Contact: 12/18/2023

DRYCLEANERS - CA: Listing of drycleaning facilities

Agency Version Date: 09/09/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 02/14/2024

Agency: California EPA Air Resources Board
Agency Contact: 916-324-3013
Most Recent Contact: 11/20/2023

DRYCLEANERS_AMADOR COUNTY - CA: Listing of drycleaning facilities in Amador County

Agency Version Date: 11/02/2016
Agency Update Frequency: Varies
Planned Next Contact: 01/31/2024

Agency: Amador County APCD
Agency Contact: (209) 223-6439
Most Recent Contact: 11/06/2023

DRYCLEANERS_ANTELOPE VALLEY - CA: Listing of drycleaning facilities in Antelope Valley

Agency Version Date: 07/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/04/2024

Agency: Antelope Valley AQMD
Agency Contact: 661-723-8070
Most Recent Contact: 01/09/2024

DRYCLEANERS_BAY AREA - CA: Listing of drycleaning facilities in Bay Area

Agency Version Date: 05/29/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/13/2024

Agency: Bay Area AQMD
Agency Contact: 415-749-4784
Most Recent Contact: 11/17/2023

DRYCLEANERS_BUTTE COUNTY - CA: Listing of drycleaning facilities in Butte County

Agency Version Date: 10/14/2022
Agency Update Frequency: Semi Annually
Planned Next Contact: 03/21/2024

Agency: Butte County AQMD
Agency Contact: 530-332-9400 ext. 107
Most Recent Contact: 12/26/2023

DRYCLEANERS_CALAVERAS COUNTY - CA: Listing of drycleaning facilities in Calaveras County

Agency Version Date: 07/14/2022
Agency Update Frequency: Varies
Planned Next Contact: 03/18/2024

Agency: Calaveras County APCD
Agency Contact: 209-754-6504
Most Recent Contact: 12/21/2023

DRYCLEANERS_COLUSA COUNTY - CA: Listing of drycleaning facilities in Colusa County

Agency Version Date: 09/08/2014
Agency Update Frequency: Quarterly
Planned Next Contact: 03/21/2024

Agency: Colusa County APCD
Agency Contact: 530-458-0590
Most Recent Contact: 12/26/2023

DRYCLEANERS_EASTERN KERN COUNTY - CA: Listing of drycleaning facilities in Eastern Kern County

Agency Version Date: 07/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/21/2024

Agency: Eastern Kern County APCD
Agency Contact: 661-862-5250
Most Recent Contact: 12/26/2023

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_EL DORADO COUNTY - CA: Listing of drycleaning facilities in El Dorado County

Agency Version Date: 07/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/21/2024

Agency: El Dorado County AQMD
Agency Contact: 530-621-7503
Most Recent Contact: 12/26/2023

DRYCLEANERS_FEATHER RIVER - CA: Listing of drycleaning facilities in Feather River

Agency Version Date: 09/24/2021
Agency Update Frequency: Varies
Planned Next Contact: 02/13/2024

Agency: Feather River AQMD
Agency Contact: 530-634-7659 ext. 205
Most Recent Contact: 11/17/2023

DRYCLEANERS_GLENN COUNTY - CA: Listing of drycleaning facilities in Glenn County

Agency Version Date: 10/29/2021
Agency Update Frequency: Varies
Planned Next Contact: 04/09/2024

Agency: Glenn County APCD
Agency Contact: 530-934-6500
Most Recent Contact: 01/12/2024

DRYCLEANERS_GREAT BASIN UNIFIED - CA: Listing of drycleaning facilities in the Great Basin Unified region

Agency Version Date: 09/09/2014
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: Great Basin Unified APCD
Agency Contact: 760-872-8211 ext. 228
Most Recent Contact: 11/28/2023

DRYCLEANERS_IMPERIAL COUNTY - CA: Listing of drycleaning facilities in Imperial County

Agency Version Date: 07/05/2023
Agency Update Frequency: Annually
Planned Next Contact: 03/21/2024

Agency: Imperial County APCD
Agency Contact: 760-482-4606
Most Recent Contact: 12/26/2023

DRYCLEANERS_LAKE COUNTY - CA: Listing of drycleaning facilities in Lake County

Agency Version Date: 12/20/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/15/2024

Agency: Lake County AQMD
Agency Contact: N/R
Most Recent Contact: 12/20/2023

DRYCLEANERS_LASSEN COUNTY - CA: Listing of drycleaning facilities in Lassen County

Agency Version Date: 05/06/2013
Agency Update Frequency: Varies
Planned Next Contact: 04/03/2024

Agency: Lassen County APCD
Agency Contact: 530-257-1045
Most Recent Contact: 01/08/2024

DRYCLEANERS_MENDOCINO COUNTY - CA: Listing of drycleaning facilities in Mendocino County

Agency Version Date: 12/13/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/08/2024

Agency: Mendocino County AQMD
Agency Contact: N/R
Most Recent Contact: 12/13/2023

DRYCLEANERS_MOJAVE DESERT - CA: Listing of drycleaning facilities in the Mojave Desert region

Agency Version Date: 07/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/04/2024

Agency: Mojave Desert AQMD
Agency Contact: 661-723-8070
Most Recent Contact: 01/09/2024

DRYCLEANERS_MONTEREY BAY - CA: Listing of drycleaning facilities in the Monterey Bay region

Agency Version Date: 05/18/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/02/2024

Agency: Monterey Bay Unified APCD
Agency Contact: 831-647-9418 ext.240
Most Recent Contact: 11/08/2023

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_NORTH COAST UNIFIED - CA: Listing of drycleaning facilities in the North Coast region

Agency Version Date: 06/14/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/29/2024

Agency: North Coast Unified AQMD
Agency Contact: 707-443-3093 ext. 111
Most Recent Contact: 12/05/2023

DRYCLEANERS_NORTHERN SIERRA - CA: Listing of drycleaning facilities in the Northern Sierra region

Agency Version Date: 09/08/2014
Agency Update Frequency: No Update
Planned Next Contact: 01/25/2024

Agency: Northern Sierra AQMD
Agency Contact: 530-274-9360 ext. 106
Most Recent Contact: 10/31/2023

DRYCLEANERS_NORTHERN SONOMA COUNTY - CA: Listing of drycleaning facilities in Northern Sonoma County

Agency Version Date: 04/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: Northern Sonoma County APCD
Agency Contact: 707-433-5911
Most Recent Contact: 01/16/2024

DRYCLEANERS_PLACER COUNTY - CA: Listing of drycleaning facilities in Placer County

Agency Version Date: 05/02/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 02/13/2024

Agency: Placer County APCD
Agency Contact: 530-745-2324
Most Recent Contact: 11/17/2023

DRYCLEANERS_SACRAMENTO COUNTY - CA: Listing of drycleaning facilities in Sacramento County

Agency Version Date: 11/10/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/06/2024

Agency: Sacramento Metro AQMD
Agency Contact: 916-874-4817
Most Recent Contact: 11/10/2023

DRYCLEANERS_SAN DIEGO COUNTY - CA: Listing of drycleaning facilities in San Diego County

Agency Version Date: 04/28/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: San Diego County APCD
Agency Contact: 858-586-2618
Most Recent Contact: 01/16/2024

DRYCLEANERS_SAN JOAQUIN VALLEY - CA: Listing of drycleaning facilities in the San Joaquin Valley

Agency Version Date: 01/02/2024
Agency Update Frequency: Varies
Planned Next Contact: 03/28/2024

Agency: San Joaquin Valley APCD
Agency Contact: N/R
Most Recent Contact: 01/02/2024

DRYCLEANERS_SAN LUIS OBISPO - CA: Listing of drycleaning facilities in the San Luis Obispo region

Agency Version Date: 04/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: San Luis Obispo County APCD
Agency Contact: 805-781-5912
Most Recent Contact: 01/16/2024

DRYCLEANERS_SANTA BARBARA COUNTY - CA: Listing of drycleaning facilities in Santa Barbara County

Agency Version Date: 07/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/04/2024

Agency: Santa Barbara County APCD
Agency Contact: 805-961-8867
Most Recent Contact: 01/09/2024

DRYCLEANERS_SHASTA COUNTY - CA: Listing of drycleaning facilities in Shasta County

Agency Version Date: 07/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/21/2024

Agency: Shasta County AQMD
Agency Contact: 530-225-5674
Most Recent Contact: 12/26/2023

OTHER ASCERTAINABLE RECORDS (cont.)

DRYCLEANERS_SISKIYOU COUNTY - CA: Listing of drycleaning facilities in Siskiyou County

Agency Version Date: 09/08/2014
Agency Update Frequency: Varies
Planned Next Contact: 03/11/2024

Agency: Siskiyou County APCD
Agency Contact: N/R
Most Recent Contact: 12/14/2023

DRYCLEANERS_SOUTH COAST - CA: Listing of drycleaning facilities in the South Coast region

Agency Version Date: 01/15/2024
Agency Update Frequency: Varies
Planned Next Contact: 04/10/2024

Agency: South Coast AQMD
Agency Contact: 909-396-2000
Most Recent Contact: 01/15/2024

DRYCLEANERS_TEHAMA COUNTY - CA: Listing of drycleaning facilities in Tehama County

Agency Version Date: 10/25/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/16/2024

Agency: Tehama County APCD
Agency Contact: 530-527-3717 ext.100
Most Recent Contact: 01/19/2024

DRYCLEANERS_TUOLUMNE COUNTY - CA: Listing of drycleaning facilities in Tuolumne County

Agency Version Date: 09/21/2020
Agency Update Frequency: Varies
Planned Next Contact: 01/25/2024

Agency: Tuolumne County APCD
Agency Contact: 209-533-6678
Most Recent Contact: 10/31/2023

DRYCLEANERS_VENTURA COUNTY - CA: Listing of drycleaning facilities in Ventura County

Agency Version Date: 07/05/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/21/2024

Agency: Ventura County APCD
Agency Contact: 805-645-1405
Most Recent Contact: 12/26/2023

DRYCLEANERS_YOLO-SOLANO COUNTIES - CA: Listing of drycleaning facilities in Yolo and Solano Counties

Agency Version Date: 05/01/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: Yolo-Solano AQMD
Agency Contact: 530-757-3664
Most Recent Contact: 01/16/2024

EMI - CA: An estimation of air pollution for a listing of air permitted facilities

Agency Version Date: 05/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/05/2024

Agency: California Air Resources Board
Agency Contact: 916-327-6251
Most Recent Contact: 11/09/2023

FA - CA: Listing of the Department of Toxic Substance Control's Financial Assurance report sites and facilities

Agency Version Date: 12/22/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/19/2024

Agency: Department of Toxic Substance Control
Agency Contact: N/R
Most Recent Contact: 12/22/2023

FA 2 - CA: Financial Assurance Information for solid waste facilities

Agency Version Date: 06/23/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/11/2024

Agency: Department of Environment & Natural Resources
Agency Contact: 916-341-6066
Most Recent Contact: 12/14/2023

FIRE AREAS - CA: The multi-agency statewide database of fire perimeters.

Agency Version Date: 09/11/2023
Agency Update Frequency: No Update
Planned Next Contact: 03/01/2024

Agency: California Department of Forestry and Fire Protection
Agency Contact: 916-445-4302
Most Recent Contact: 12/06/2023

OTHER ASCERTAINABLE RECORDS (cont.)

GCC_SANTA CLARA VALLEY - CA: Santa Clara Valley groundwater contamination cleanups listing

Agency Version Date: 05/01/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/16/2024

HAZMAT_INCIDENT_CONTRA COSTA COUNTY - CA: Listing of hazardous material incident sites since 1993 in Contra Costa County

Agency Version Date: 04/21/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/03/2024

Agency: Contra Costa Health Services Department
Agency Contact: 925-335-3200
Most Recent Contact: 01/08/2024

HAZMAT_CITY OF SAN JOSE - CA: City of San Jose hazardous material facilities listing

Agency Version Date: 01/05/2021
Agency Update Frequency: Quarterly
Planned Next Contact: 02/14/2024

Agency: Santa Clara County Department of Environmental Health
Agency Contact: 408-918-1951
Most Recent Contact: 11/20/2023

HAZMAT_SACRAMENTO COUNTY - CA: Sacramento county hazardous material facilities listing

Agency Version Date: 01/25/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/03/2024

Agency: Sacramento County Environmental Management
Agency Contact: 916-875-8550
Most Recent Contact: 01/08/2024

HAZMAT_SAN BERNARDINO COUNTY - CA: San Bernardino county listing of hazardous material permitted facilities

Agency Version Date: 01/02/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 03/28/2024

Agency: San Bernardino County Fire Department Hazardous Materials Division
Agency Contact: N/R
Most Recent Contact: 01/02/2024

HAZMAT_SAN DIEGO COUNTY - CA: San Diego county listing of hazardous material permitted facilities

Agency Version Date: 01/01/2024
Agency Update Frequency: Quarterly
Planned Next Contact: 03/27/2024

Agency: Hazardous Materials Management Division
Agency Contact: N/R
Most Recent Contact: 01/01/2024

HAZMAT_SANTA CLARA COUNTY - CA: Santa Clara county hazardous material facilities listing

Agency Version Date: 05/02/2023
Agency Update Frequency: Annually
Planned Next Contact: 04/11/2024

Agency: Santa Clara Department of Environmental Health
Agency Contact: 408-918-3428
Most Recent Contact: 01/16/2024

HAZNET - CA: Listing of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters

Agency Version Date: 04/05/2021
Agency Update Frequency: Annually
Planned Next Contact: 02/14/2024

Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 11/20/2023

HAZWASTE_ORANGE COUNTY - CA: Orange County hazardous waste facilities

Agency Version Date: 07/17/2023
Agency Update Frequency: Annually
Planned Next Contact: 04/04/2024

Agency: Orange County Health Care Agency
Agency Contact: 714-433-6000
Most Recent Contact: 01/09/2024

OTHER ASCERTAINABLE RECORDS (cont.)

HIGH FIRE - CA: Fire hazard severity zones mapped as areas of significant fire hazards on the basis of fuels terrain weather and other factors

Agency Version Date: 11/06/2023
Agency Update Frequency: No update
Planned Next Contact: 01/31/2024

Agency: California Department of Forestry and Fire Protection
Agency Contact: 916-445-4302
Most Recent Contact: 11/06/2023

HIST CORTESE - CA: The historical compliance document used in providing information about the location of hazardous material release sites utilized by the state local agencies and developers

Agency Version Date: 10/09/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/03/2024

HIST DRYCLEANERS_SAN DIEGO COUNTY - CA: Historical listing of drycleaning facilities in San Diego County

Agency Version Date: 02/01/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: San Diego County APCD
Agency Contact: 858-586-2618
Most Recent Contact: 01/16/2024

HIST HAZNET - CA: List of hazardous waste manifests from when hazardous waste is transported from generators to permitted recycling treatment storage or disposal facilities by registered hazardous waste transporters that are no longer in current agency list.

Agency Version Date: 10/10/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/09/2024

Agency: California Environmental Protection Agency
Agency Contact: 916-341-5791
Most Recent Contact: 01/12/2024

HIST HMS_LOS ANGELES COUNTY - CA: List of Los Angeles county industrial waste and underground storage tank sites that are no longer in current agency list.

Agency Version Date: 09/15/2018
Agency Update Frequency: Annually
Planned Next Contact: 02/09/2024

Agency: County of Los Angeles Department of Public Works
Agency Contact: 626-458-3518
Most Recent Contact: 11/15/2023

HIST HWP - CA: List of the Department of Toxic Substance Control's hazardous waste transporters and corrective action that are no longer in current agency list.

Agency Version Date: 12/20/2023
Agency Update Frequency: Annually
Planned Next Contact: 03/15/2024

Agency: Department of Toxic Substance Control
Agency Contact: N/R
Most Recent Contact: 12/20/2023

HIST LDS - CA: List of areas of land on or in which hazardous waste is placed or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area that are no longer in current agency list.

Agency Version Date: 05/20/2018
Agency Update Frequency: Annually
Planned Next Contact: 04/15/2024

Agency: State Water Quality Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 01/18/2024

HIST MCS - CA: List of the State Water Resources Control Boards investigation and remediation of water quality issues at military facilities that is no longer in current agency list.

Agency Version Date: 09/24/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 02/12/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 11/16/2023

OTHER ASCERTAINABLE RECORDS (cont.)

HIST NFA - CA: Historical No further action cleanup sites listing

Agency Version Date: 03/21/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 04/04/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/09/2024

HIST SOLVENTS_SANTA CLARA CO - CA: List of Santa Clara County Historic Solvent Case Files

Agency Version Date: 05/04/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/16/2024

Agency: Santa Clara Valley Water District
Agency Contact: (408) 630-2694
Most Recent Contact: 01/19/2024

HMS_LOS ANGELES COUNTY - CA: Listing of Los Angeles county industrial waste and underground storage tank sites

Agency Version Date: 05/26/2023
Agency Update Frequency: Monthly
Planned Next Contact: 02/12/2024

Agency: County of Los Angeles Department of Public Works
Agency Contact: 626-458-3518
Most Recent Contact: 11/16/2023

HWM COMMERCIAL FACILITIES - CA: Listing of all commercial hazardous waste permitted off-site transfer recycling treatment storage and disposal facilities

Agency Version Date: 12/18/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/13/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-5308
Most Recent Contact: 12/18/2023

HWP - CA: Facility listing of the Department of Toxic Substance Control's hazardous waste transporters and corrective action

Agency Version Date: 12/27/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/22/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 12/27/2023

HWT - CA: Listing of registered hazardous waste transporters

Agency Version Date: 10/09/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/29/2024

Agency: Department of Toxic Substance Control
Agency Contact: 916-322-2861
Most Recent Contact: 01/03/2024

LDS - CA: List of Land Disposal Cleanup Sites from Geotracker

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

LOP_SANTA CLARA COUNTY - CA: Santa Clara county leaking underground storage tank sites

Agency Version Date: 07/21/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 03/07/2024

Agency: Department of Environmental Health
Agency Contact: 408-280-6479
Most Recent Contact: 12/12/2023

MCS - CA: List of Military Cleanup Sites from Geotracker

Agency Version Date: 09/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/20/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5791
Most Recent Contact: 12/25/2023

OTHER ASCERTAINABLE RECORDS (cont.)

MWMP - CA: Listing of treatment and transfer stations that properly handle and dispose of medical waste that are permitted and inspected by the Medical Waste Management Program

Agency Version Date: 12/29/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/26/2024

Agency: California-Health Human Services Department of Public Health
Agency Contact: 916-449-5661
Most Recent Contact: 12/29/2023

MWMP 2 - CA: Listing of facilities that generate permitted medical waste and are inspected by the Medical Waste Management Program

Agency Version Date: 01/13/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 03/14/2024

Agency: California-Health Human Services Department of Public Health
Agency Contact: 916-449-5661
Most Recent Contact: 12/19/2023

NFA - CA: No further action cleanup sites listing

Agency Version Date: 11/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/22/2023

NFE - CA: Unconfirmed contaminated properties listing

Agency Version Date: 11/22/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/16/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/22/2023

NPDES - CA: Listing of facilities with wastewater and NPDES permits including stormwater

Agency Version Date: 10/19/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/10/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 01/15/2024

PERCHLORATE 2 - CA: Listing of contaminated sites where the primary known chemical is perchlorate

Agency Version Date: 11/20/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/14/2024

Agency: Department of Toxic Substances Control
Agency Contact: 916-322-2861
Most Recent Contact: 11/20/2023

PFAS - CA: List of PFAS sites and areas of interest

Agency Version Date: 12/07/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/04/2024

Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 12/07/2023

PFAS DOD - CA: List of DoD facilities conducting PFAS investigations

Agency Version Date: 12/07/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/04/2024

Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 12/07/2023

PFAS GAMA - CA: PFOS & PFAS GAMA Well Sampling program

Agency Version Date: 12/01/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/27/2024

Agency: California State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 12/01/2023

OTHER ASCERTAINABLE RECORDS (cont.)

PROPOSITION 65 - CA: Listing of Proposition 65 enforcement reporting notice sites in accordance with "The Safe Drinking Water and Toxic Enforcement Act of 1986"

Agency Version Date: 05/11/2023
Agency Update Frequency: No update
Planned Next Contact: 01/26/2024

Agency: State of California Department of Justice Office of the Attorney General
Agency Contact: 510-873-6321
Most Recent Contact: 11/01/2023

RFR - CA: State Water Resources Control Board Regulated Facility Report database listing which includes program agency type and their permit status

Agency Version Date: 05/15/2023
Agency Update Frequency: Varies
Planned Next Contact: 01/30/2024

Agency: CA State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 11/03/2023

SITES INVENTORY_VENTURA COUNTY - CA: Listing of Ventura County inventory of closed illegal abandoned and inactive sites

Agency Version Date: 01/03/2024
Agency Update Frequency: Annually
Planned Next Contact: 03/29/2024

Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 01/03/2024

SMU_SANTA BARBARA COUNTY - CA: Site Mitigation Unit site assessment and corrective actions at properties in Santa Barbara County

Agency Version Date: 06/08/2023
Agency Update Frequency: Varies
Planned Next Contact: 02/22/2024

Agency: Santa Barbara County APCD
Agency Contact: (805) 681-4900
Most Recent Contact: 11/28/2023

SWAT - CA: The SWAT Reports Summary Data and the Waste Management Unit Database were published by State Water Resources Control Board staff and the Regional Water Quality Control Boards for tracking and inventory of waste management units.

Agency Version Date: 01/15/2024
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 04/10/2024

Agency: Department of Ecology
Agency Contact: 916-322-2861
Most Recent Contact: 01/15/2024

VCCP_VENTURA COUNTY - CA: Listing of Ventura County cleanup program sites

Agency Version Date: 07/22/2022
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 03/25/2024

Agency: Environmental Health Division
Agency Contact: 805-654-2815
Most Recent Contact: 12/28/2023

WDR - CA: List of Waste Discharge Requirement Sites.

Agency Version Date: 05/30/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 02/14/2024

Agency: State Water Resources Control Board
Agency Contact: N/R
Most Recent Contact: 11/20/2023

WDS - CA: Listing of waste discharge system reporting facilities

Agency Version Date: 06/28/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 03/14/2024

Agency: State Water Resources Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 12/19/2023

WILDLANDS - CA: The Wildlands Conservancy listing of preserves in California

Agency Version Date: 04/27/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2024

Agency: The Wildlands Conservancy
Agency Contact: 909-797-8507
Most Recent Contact: 01/16/2024

OTHER ASCERTAINABLE RECORDS (cont.)

WIP - CA: Listing of Well Investigation Program cases in the San Gabriel and San Fernando Valley area

Agency Version Date: 07/01/2009
Agency Update Frequency: Varies
Planned Next Contact: 04/01/2024

Agency: Los Angeles Water Quality Control Board
Agency Contact: 916-341-5810
Most Recent Contact: 01/04/2024

OTHER

SEISMIC - CA: Earthquake Zones of Required Investigation. Shows the location of both Seismic Hazard Zones and Earthquake Fault Zones

Agency Version Date: 12/19/2023
Agency Update Frequency: Varies
Planned Next Contact: 03/14/2024

Agency: State of California Department of Conservation
Agency Contact: N/R
Most Recent Contact: 12/19/2023

SUBJECT PROPERTY ADDRESS:

240050 Orchards at Gill Estates
W Nielsen Ave & CA-145
Kerman, CA 93630

SUBJECT PROPERTY COORDINATES:

Latitude(North):	36.739905 - 36°44'23.7"
Longitude(West):	-120.064101 - -120°3'50.8"
Universal Transverse Mercator:	Zone 10N
UTM X (Meters):	762144.67
UTM Y (Meters):	4070039.47
State Plane Coordinates:	0404 - California Zone 4 (US Survey Feet)
X Coordinate (Feet):	6249883.495 E
Y Coordinate (Feet):	2154202.119 N

ELEVATION:

Elevation: 223 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	36120-F1 Kerman, CA
Most Recent Revision:	2015

GEOHYDROLOGY DATA:**SUBJECT PROPERTY TOPOGRAPHY:**

Topographic Gradient: Northwest

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
FRESNO	No available data.
Flood Plain Panel at Subject Property:	06019C2075H (Eff. date 2/18/2009)
Additional Panels in search area:	06019C1525H (Eff. date 2/18/2009) 06039C1350E (Eff. date 9/26/2008)

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
FRESNO	No available data.
Flood Plain Panel at Subject Property:	0650290850B 0650290875B 0606650000A
Additional Panels in search area:	No available data

NATIONAL WETLAND INVENTORY:

	NWI Electronic
<u>NWI Quad at Subject Property:</u>	<u>Data Coverage:</u>
Kerman	Yes - refer to the Geological Findings Map

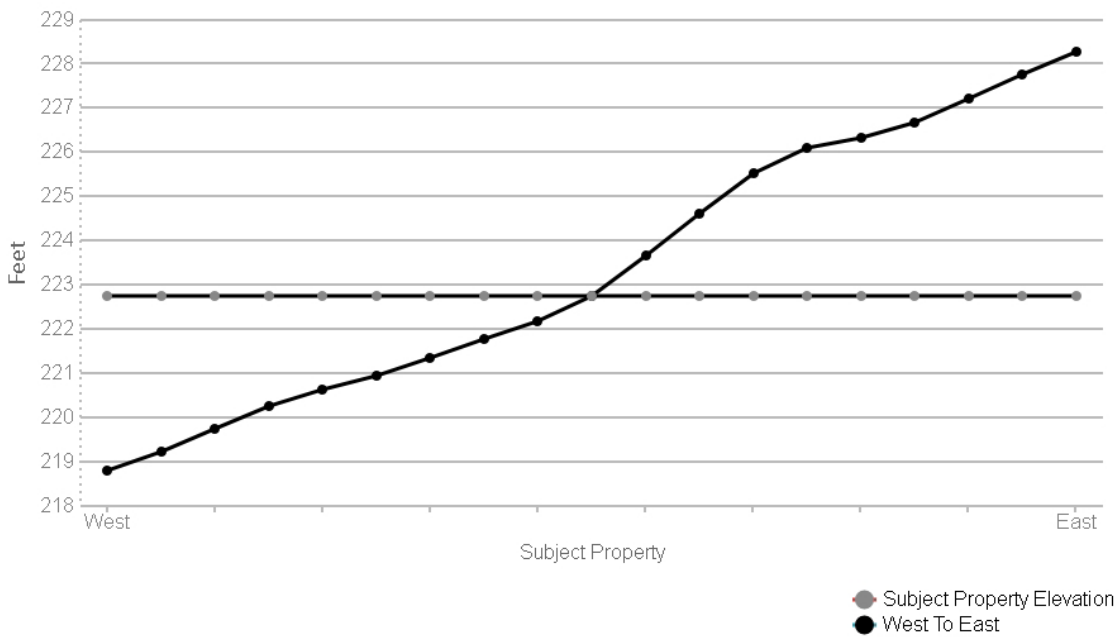
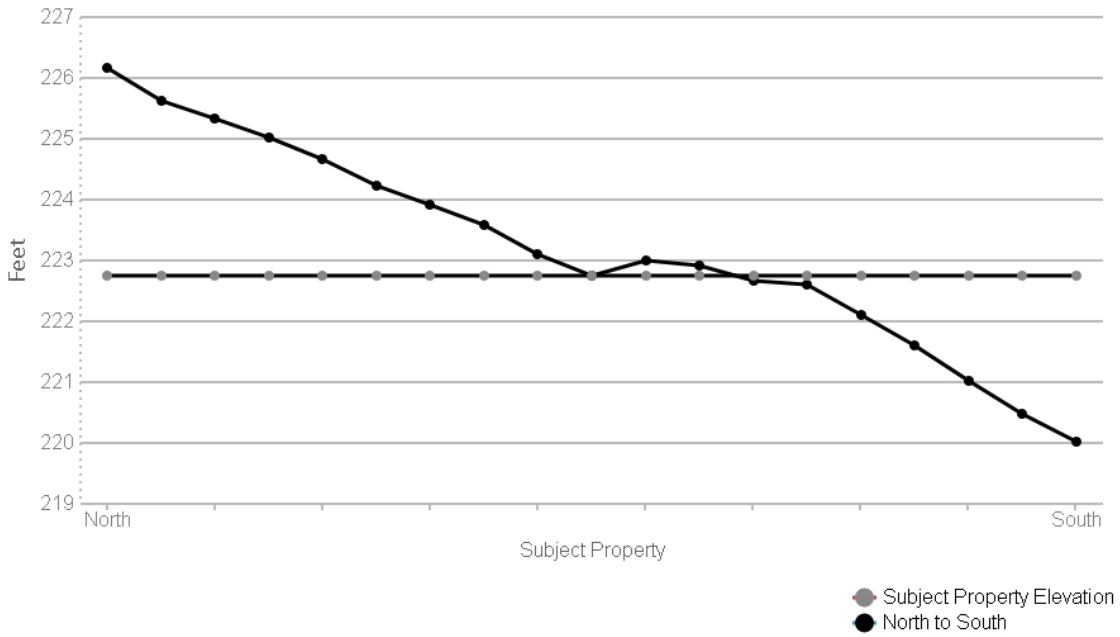
LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:

GEOLOGIC AGE IDENTIFICATION

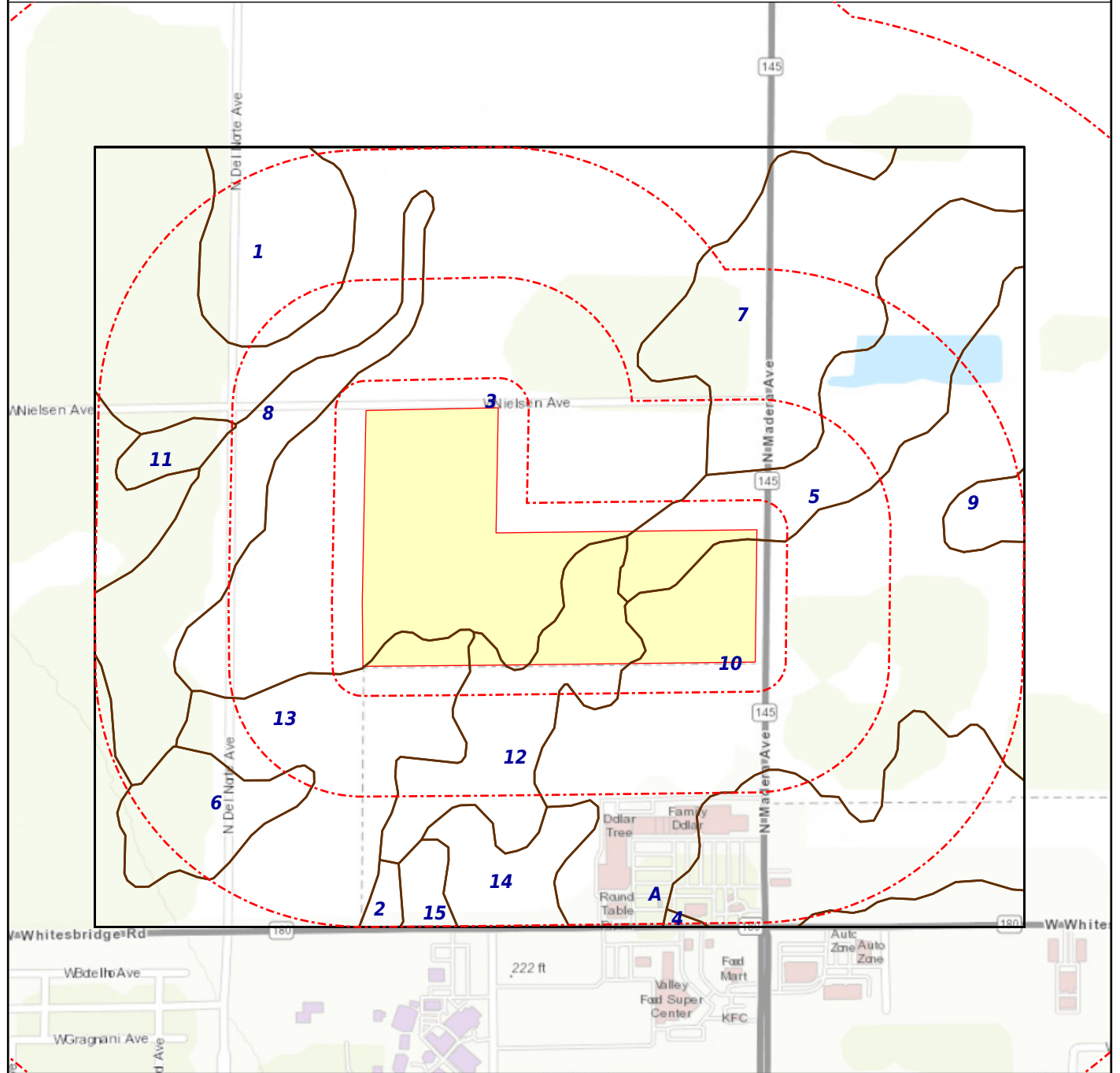
Era:	Cenozoic	Category: 4 Q Quaternary
System:	Quaternary	
Series:	Quaternary	
Code:	Q	

SURROUNDING ELEVATION PROFILES:



SUBJECT NAME: 240050 Orchards at Gill Estates
 ADDRESS: W Nielsen Ave & CA-145, Kerman, CA, 93630
 LAT/LONG: 36.739905 / -120.064101

PREPARED FOR: Technicon Engineering Services
 ORDER #: 94363
 REPORT DATE: January 23, 2024



+ Subject Property

— SSURGO

— STATSGO

SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1

SSURGO

USDA Soil Name	Hesperia,Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	3
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
2	13-28	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	1-10	6.6-7.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4
5	109-160	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.1-1	7.4-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID 2**SSURGO**

USDA Soil Name	Hanford, Series
USDA Soil Texture	Coarse sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	14-42	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3

SOIL MAP ID 3

SSURGO

USDA Soil Name	Hanford, Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-102	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14-42	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	41-102	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14-42	6.1-7.3
3	102-152	Silty clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	6.1-7.3

SOIL MAP ID 4**SSURGO**

USDA Soil Name	Hesperia,Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	3
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	1-10	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
2	13-28	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	109-160	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID 5

SSURGO

USDA Soil Name	Hanford, Series
USDA Soil Texture	Coarse sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	14-42	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3

SOIL MAP ID 6

SSURGO

USDA Soil Name	Hesperia,Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	1-10	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	1-10	6.1-7.8
2	13-28	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1-10	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4
5	109-160	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID 7
SSURGO

USDA Soil Name	Hesperia,Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	3
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
2	13-28	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1-10	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4
5	109-160	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID 8**SSURGO**

USDA Soil Name	Hanford, Series
USDA Soil Texture	Coarse sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3

SOIL MAP ID 9**SSURGO**

USDA Soil Name	Hanford, Series
USDA Soil Texture	Coarse sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	14-42	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3

SOIL MAP ID 10

SSURGO

USDA Soil Name	Hanford, Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14-42	6.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14-42	6.1-7.3
2	41-102	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
3	102-152	Silty clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	6.1-7.3

SOIL MAP ID 11**SSURGO**

USDA Soil Name	Traver, Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	1
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-25	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	7.4-9
2	25-58	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	7.8-9.6
3	58-152	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	7.8-9.6

SOIL MAP ID 12**SSURGO**

USDA Soil Name	Tujunga, Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Somewhat excessively drained
Hydric Classification	1
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	6.1-7.3
2	10-152	Loamy sand	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	6.1-7.3

SOIL MAP ID 13**SSURGO**

USDA Soil Name	Hesperia, Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	3
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
2	13-28	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	28-81	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1-10	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	81-109	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4
5	109-160	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	160-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID 14
SSURGO

USDA Soil Name	Hanford, Series
USDA Soil Texture	Coarse sandy loam
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3
2	41-183	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	6.1-7.3

SOIL MAP ID 15**SSURGO**

USDA Soil Name	Hesperia,Taxadjunct
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	1-10	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
2	13-23	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.1-7.8
3	23-35	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	6.6-7.5
4	35-46	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1-10	7.9-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	46-120	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.9-8.4
6	120-200	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.1-1	7.4-8.4

SOIL MAP ID A**STATSGO**

USDA Soil Name	Hanford, Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-12	Fine sandy loam	No data	No data	14.1143-42.343	5.6-7.8
2	12-50	No data	No data	No data	14.1143-42.343	5.6-7.8
3	50-60	No data	No data	No data	14.1143-42.343	5.6-7.8

WATER AGENCY DATA:**WATER AGENCY SEARCH DISTANCES:**

<u>DATABASE:</u>	<u>SEARCH DISTANCE (MILES):</u>
NWIS	1.000
OIL & GAS WELLS - CA	1.000
PWS	1.000
WELLS - GAMA - CA	0.000

<u>DISTANCE TO NEAREST:</u>	<u>DISTANCE:</u>
NWIS	0.255 mi / 1347 ft
OIL & GAS WELLS - CA	N/A
PWS	0.631 mi / 3330 ft
WELLS - GAMA - CA	0.628 mi / 3314 ft

FEDERAL WATER AGENCY DATA SUMMARY:

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
1	364445120035801	1/4 - 1/2 Mile NNW
2	364300120030001 USGS-	1/2 - 1 Mile ESE
	364300120030001	
3	JB AUTO REPAIR CA1000523 BEAUTIFUL	1/2 - 1 Mile NNE
	BODY	
4	364430120044001	1/2 - 1 Mile W
5	364421120024301	1/2 - 1 Mile E
6	364440120024501	1/2 - 1 Mile ENE
7	364337120035201	1/2 - 1 Mile S
8	364358120044701	1/2 - 1 Mile WSW
A9	364340120030401 364340120030402	1/2 - 1 Mile SE
A10	CA1000585	1/2 - 1 Mile SE
11	364440120023601	1/2 - 1 Mile ENE
12	364522120041201	1/2 - 1 Mile NNW

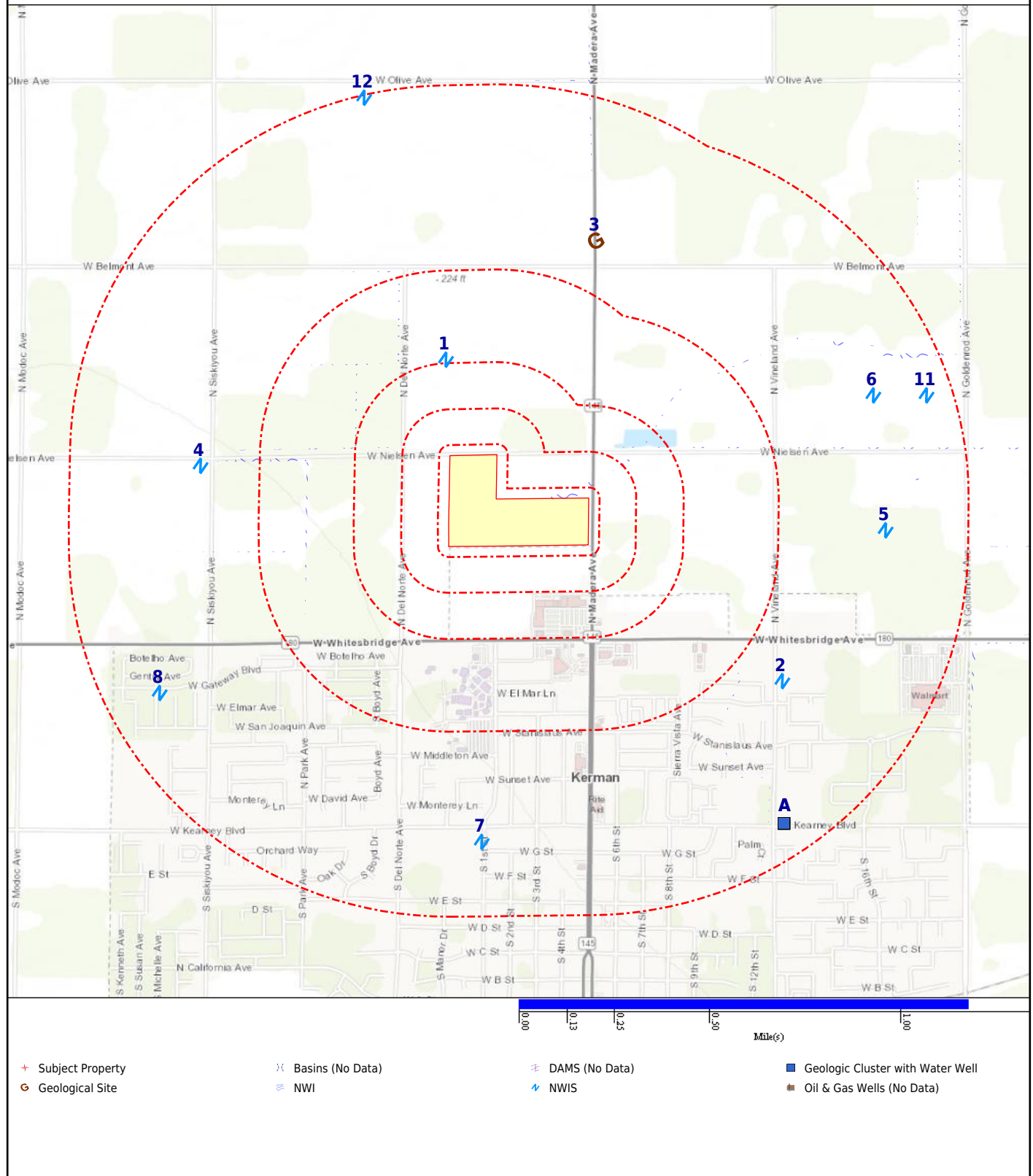
Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
2	364300120030001 USGS-	1/2 - 1 Mile ESE
	364300120030001	

SUBJECT NAME: 240050 Orchards at Gill Estates
 ADDRESS: W Nielsen Ave & CA-145, Kerman, CA, 93630
 LAT/LONG: 36.739905 / -120.064101

PREPARED FOR: Technicon Engineering Services
 ORDER #: 94363
 REPORT DATE: January 23, 2024



Map Id: 1
Direction: NNW
Distance: 0.255 mi., 1348 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 364445120035801
36.745779, -120.067102
CA
Database(s) : [NWIS]

Envirosite ID: 9225924
EPA ID: N/R

NWIS

Site Identification Number :	364445120035801
Site Type :	Well
Station Name :	014S017E01E001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWSWNWS01 T14S R17E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	219.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1950-04-03
Date Site Established or Inventoried:	1957-01-23
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	110
Hole Depth :	164
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-07
Field Water-level Measurements End Date:	1963-10-07
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.745779
Longitude :	-120.067102
Last Date in Agency List :	2023-11-23

Envirosite ID: 9225628
EPA ID: N/R

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA

Database(s) : [NWIS, WELLS - GAMA - CA] (**cont.**)

Envirosite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (**cont.**)

Well Type :	WATER SUPPLY, OTHER
Well Depth (Ft.) :	N/R
Top of Screen (Ft.) :	N/R
Screen Length (Ft.) :	N/R
Source :	N/R
Data Source :	NWIS
Source Name :	USGS-364300120030001
Other Names :	N/R
Latitude :	36.7331944
Longitude :	-120.0511667
Last Date in Agency List :	2022-07-29

GM Chemicals

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosearch account representative for a complimentary site report containing all of the details available.

Samp Collection Date :	2005-10-24
Chemical :	DCMA (Dichloromethane (Methylene Chloride)) ND UG/L
CAS Number :	N/R
Reporting Limit :	.06

Samp Collection Date :	2005-10-24
Chemical :	TCLME (Chloroform (THM)) ND UG/L
CAS Number :	N/R
Reporting Limit :	.024

Samp Collection Date :	2005-10-24
Chemical :	TEBUTHIURON (tebuthiuron) ND UG/L
CAS Number :	N/R
Reporting Limit :	.016

Samp Collection Date :	2005-10-24
Chemical :	IPBZ (Isopropylbenzene (Cumene)) ND UG/L
CAS Number :	N/R
Reporting Limit :	.038

Samp Collection Date :	2005-10-24
Chemical :	TMB135 (1,3,5-Trimethylbenzene) ND UG/L
CAS Number :	N/R
Reporting Limit :	.044

Samp Collection Date :	2005-10-24
Chemical :	THIOBENCARB (Thiobencarb) ND UG/L
CAS Number :	N/R
Reporting Limit :	.01

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA
Database(s) : [NWIS, WELLS - GAMA - CA] (*cont.*)

Envirosite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (*cont.*)

Samp Collection Date : 2005-10-24
Chemical : DCA11 (1,1-Dichloroethane (1,1 DCA)) ND UG/L
CAS Number : N/R
Reporting Limit : .035

Samp Collection Date : 2005-10-24
Chemical : STY (Styrene) ND UG/L
CAS Number : N/R
Reporting Limit : .042

Samp Collection Date : 2005-10-24
Chemical : PCA (1,1,2,2 Tetrachloroethane (PCA)) ND UG/L
CAS Number : N/R
Reporting Limit : .08

Samp Collection Date : 2005-10-24
Chemical : BZME (Toluene) ND UG/L
CAS Number : N/R
Reporting Limit : .02

Source Details

Datum : NAD83
Well Depth (Ft.) : N/R
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.7331944
Longitude : -120.0511667

Source Chemicals

Samp Collection Date-Time : 2005-10-24 11:00:00
Chemical : Perchlorate Not Detected UG/L
Analytical Method : EPA Method 314.0 Rev 1.0
Reporting Limit : 0.5
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Methylene chloride Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.06
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Chloroform Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.024
Lab Note : N/R

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA
Database(s) : [NWIS, WELLS - GAMA - CA] (*cont.*)

Envirosite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (*cont.*)

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Tebuthiuron Not Detected UG/L
Analytical Method : USGS OF 95-181
Reporting Limit : 0.016
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Cumene Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.038
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : 1,3,5-Trimethylbenzene Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.044
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Thiobencarb Not Detected UG/L
Analytical Method : USGS OF 95-181
Reporting Limit : 0.010
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : 1,1-Dichloroethane Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.035
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : Styrene Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.042
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40:00
Chemical : 1,1,2,2-Tetrachloroethane Not Detected UG/L
Analytical Method : USGS OF 97-829
Reporting Limit : 0.08
Lab Note : N/R

Well Details

Well ID : 364300120030001
Well Type : MUNICIPAL
Well Depth (Ft.) : 800.0
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA
Database(s) : [NWIS, WELLS - GAMA - CA] (*cont.*)

Envirosite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (*cont.*)

Source : N/R
Data Source : NWIS
Source Name : 364300120030001
Other Names : KING-14
Latitude : 36.73319444
Longitude : -120.0511667
Last Date in Agency List : 2023-08-08

GM Chemicals

Samp Collection Date : 2005-10-24
Chemical : BTBZT (tert-Butylbenzene) < .06 UG/L
CAS Number : N/R
Reporting Limit : .06

Samp Collection Date : 2005-10-24
Chemical : DICHLORVOS (Dichlorvos (DDVP)) < .01 UG/L
CAS Number : N/R
Reporting Limit : .0118

Samp Collection Date : 2005-10-24
Chemical : CTCL (Carbon Tetrachloride) < .06 UG/L
CAS Number : N/R
Reporting Limit : .06

Samp Collection Date : 2005-10-24
Chemical : ETBE (Ethyl tertiary butyl ether (ETBE)) < .03 UG/L
CAS Number : N/R
Reporting Limit : .03

Samp Collection Date : 2005-10-24
Chemical : CYANAZ (Cyanazine) < .018 UG/L
CAS Number : N/R
Reporting Limit : .018

Samp Collection Date : 2005-10-24
Chemical : BZ (Benzene) < .021 UG/L
CAS Number : N/R
Reporting Limit : .021

Samp Collection Date : 2005-10-24
Chemical : IPRODIONE (Iprodione) < .538 UG/L
CAS Number : N/R
Reporting Limit : .538

Samp Collection Date : 2005-10-24
Chemical : DCMA (Dichloromethane (Methylene Chloride)) < .06 UG/L
CAS Number : N/R

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA
Database(s) : [NWIS, WELLS - GAMA - CA] (*cont.*)

EnviroSite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (*cont.*)

Reporting Limit : .06

Samp Collection Date : 2005-10-24
Chemical : TAME (Tertiary amyl methyl ether) < .04 UG/L
CAS Number : N/R
Reporting Limit : .04

Samp Collection Date : 2005-10-24
Chemical : TMB135 (1,3,5-Trimethylbenzene) < .044 UG/L
CAS Number : N/R
Reporting Limit : .044

Source Details

Datum : NAD83
Well Depth (Ft.) : 800
Top of Screen (Ft.) : N/R
Screen Length (Ft.) : N/R
Latitude : 36.73319444
Longitude : -120.0511667

Source Chemicals

Samp Collection Date-Time : 2005-10-24 11:00
Chemical : Perchlorate, water, unfiltered, micrograms per liter < .5 ug/l
Analytical Method : IC016
Reporting Limit : .5
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter < .06 ug/l

Analytical Method : GCM66
Reporting Limit : .06
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40
Chemical : Dichlorvos, water, filtered, recoverable, micrograms per liter < .01 ug/l
Analytical Method : GCM39
Reporting Limit : .0118
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter < .06 ug/l

Map Id: 2
Direction: ESE
Distance: 0.628 mi., 3314 ft.
Elevation: 225 ft.
Relative: Higher

Site Name : 364300120030001 | USGS-
364300120030001
36.733194, -120.051167
CA

Database(s) : [NWIS, WELLS - GAMA - CA] (**cont.**)

EnviroSite ID: 9225628
EPA ID: N/R

WELLS - GAMA - CA (cont.**)**

Analytical Method : GCM66
Reporting Limit : .06
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter < .03 ug/l

Analytical Method : GCM66
Reporting Limit : .03
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Cyanazine, water, filtered, recoverable, micrograms per liter < .018 ug/l
Analytical Method : GCM35
Reporting Limit : .018
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Benzene, water, unfiltered, recoverable, micrograms per liter < .021 ug/l
Analytical Method : GCM66
Reporting Limit : .021
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Iprodione, water, filtered, recoverable, micrograms per liter < .538 ug/l
Analytical Method : GCM39
Reporting Limit : .538
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Dichloromethane, water, unfiltered, recoverable, micrograms per liter < .06 ug/l

Analytical Method : GCM66
Reporting Limit : .06
Lab Note : N/R

Samp Collection Date-Time : 2005-10-24 10:40

Chemical : Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter < .04 ug/l

Analytical Method : GCM66
Reporting Limit : .04
Lab Note : N/R

Map Id: 3
Direction: NNE
Distance: 0.631 mi., 3330 ft.
Elevation: 227 ft.
Relative: Higher

Site Name : JB AUTO REPAIR | CA1000523 |
BEAUTIFUL BODY
1048 N MADERA AVE
KERNAN, CA 93630
Database(s) : [PWS, PWS ENF]

Envirosite ID: 609920
EPA ID: N/R

PWS

Facility Address : 1048 N MADERA AVE, KERNAN, CA 93630

PWS ID : CA1000523
PWS Type : Transient non-community system
PWS Name : RAMIREZ MARKET
Activity Status : Changed from public to non-public
Primary Source : Ground water
Submission Year : 2023
Submission Year Quarter : 2023Q2
Population Served Count : 0
Service Connections Count : 1
Population Category 2 : <10,000
Population Category 3 : <=3300
Population Category 4 : <10K
Population Category 5 : <=500
Population Category 11 : <=100
Submission Quarter : 2
Submission Status Code : Y
First Reported Date : 2001-08-15
Last Reported Date : 2023-07-03
Deactivation Date : 2009-06-09
GW or SW : Groundwater
Is Grant Eligible : N
Is Outstanding Performer : N/R
Is School or Daycare : N
Is Source Water Protected : N/R
Primacy Agency : California
Primacy Type : State
Org Name : N/R
EPA Region : Region 9
Admin Name : N/R
Owner Type : Private
Phone Number : N/R
Phone Ext Number : N/R
Alt Phone Number : N/R
Email Address : N/R
Fax Number : N/R
Is Wholesaler : N
LT2 Schedule Category : N/R
NPM Candidate : N
CDS ID : N/R
DBPR Schedule Category : N/R
Outstanding Performer Date : N/R
Season Begin Date : 01-01
Season End Date : 12-31
Source Water Protection Date : N/R
Seasonal Startup System : N/R
Reduced Monitoring Begin Date : N/R
Reduced Monitoring End Date : N/R
Reduced RTRC Monitoring : N/R
Last Date in Agency List : 2023-09-13

PWS ENF

Facility Address : 1048 N MADERA AVE, KERNAN, CA 93630

Map Id: 3
Direction: NNE
Distance: 0.631 mi., 3330 ft.
Elevation: 227 ft.
Relative: Higher

Site Name : JB AUTO REPAIR | CA1000523 |
BEAUTIFUL BODY
1048 N MADERA AVE
KERNAN, CA 93630

Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 609920
EPA ID: N/R

PWS ENF (cont.)

Site Details

PWS ID :	CA1000523
PWS Name :	RAMIREZ MARKET
EPA Region :	Region 9
Primacy Agency :	California
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Changed from public to non-public
Deactivation Date :	2009-06-09
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	2023-09-20

Violation Details

RTC Enforcement ID :	N/R
Violation ID :	3
Submission Year :	2023
Violation First Reported Date :	2007-05-17
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	KERNAN, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	4
Submission Year :	2023
Violation First Reported Date :	2007-05-17
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	KERNAN, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09

Map Id: 3
Direction: NNE
Distance: 0.631 mi., 3330 ft.
Elevation: 227 ft.
Relative: Higher

Site Name : JB AUTO REPAIR | CA1000523 |
BEAUTIFUL BODY
1048 N MADERA AVE
Kerman, CA 93630

Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 609920
EPA ID: N/R

PWS ENF (cont.)

Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	2
Submission Year :	2023
Violation First Reported Date :	2007-05-17
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	Kerman, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	1
Submission Year :	2023
Violation First Reported Date :	2007-05-17
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	Kerman, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

Site Details

PWS ID :	CA1000523
PWS Name :	RAMIREZ MARKET
EPA Region :	Region 9
Primacy Agency :	California
PWS Type :	Transient non-community system

Map Id: 3
Direction: NNE
Distance: 0.631 mi., 3330 ft.
Elevation: 227 ft.
Relative: Higher

Site Name : JB AUTO REPAIR | CA1000523 |
BEAUTIFUL BODY
1048 N MADERA AVE
Kerman, CA 93630

Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 609920
EPA ID: N/R

PWS ENF (cont.)

Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Changed from public to non-public
Deactivation Date :	2009-06-09
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	2021-09-28

Violation Details

RTC Enforcement ID :	N/R
Violation ID :	1
Submission Year :	2021
Violation First Reported Date :	2007-05-17
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	Kerman, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3
Submission Year :	2021
Violation First Reported Date :	2007-05-17
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	Kerman, 93630
Address Line 2 :	1048 N MADERA AVE
Compliance Status :	System Inactive
RTC Date :	2009-06-09
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	N/R
Email Address :	N/R

Map Id: 3
 Direction: NNE
 Distance: 0.631 mi., 3330 ft.
 Elevation: 227 ft.
 Relative: Higher

Site Name : JB AUTO REPAIR | CA1000523 |
 BEAUTIFUL BODY
 1048 N MADERA AVE
 KERNAN, CA 93630

Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 609920
EPA ID: N/R

PWS ENF (**cont.**)

RTC Enforcement ID : N/R
 Violation ID : 4
 Submission Year : 2021
 Violation First Reported Date : 2007-05-17
 Contaminant Name : Coliform (TCR)
 Rule Family : Total Coliform Rules
 Rule Group : Microbials
 Rule Name : Total Coliform Rule
 Violation Type : Monitoring, Routine Major (TCR)
 Is Health Based : N
 Is Major Violation : N/R
 Severity Indicator Count : N/R
 Public Notification Tier : 3
 Address Line 1 : KERNAN, 93630
 Address Line 2 : 1048 N MADERA AVE
 Compliance Status : System Inactive
 RTC Date : 2009-06-09
 Enforcement Action Description : State Formal Notice of Violation issued
 Admin Name : N/R
 Email Address : N/R

RTC Enforcement ID : N/R
 Violation ID : 2
 Submission Year : 2021
 Violation First Reported Date : 2007-05-17
 Contaminant Name : Coliform (TCR)
 Rule Family : Total Coliform Rules
 Rule Group : Microbials
 Rule Name : Total Coliform Rule
 Violation Type : Monitoring, Routine Major (TCR)
 Is Health Based : N
 Is Major Violation : N/R
 Severity Indicator Count : N/R
 Public Notification Tier : 3
 Address Line 1 : KERNAN, 93630
 Address Line 2 : 1048 N MADERA AVE
 Compliance Status : System Inactive
 RTC Date : 2009-06-09
 Enforcement Action Description : State Formal Notice of Violation issued
 Admin Name : N/R
 Email Address : N/R

Map Id: 4
Direction: W
Distance: 0.660 mi., 3484 ft.
Elevation: 220 ft.
Relative: Lower

Site Name : 364430120044001
36.741613, -120.078769
CA
Database(s) : [NWIS]

Envirosite ID: 9222583
EPA ID: N/R

NWIS

Site Identification Number :	364430120044001
Site Type :	Well
Station Name :	014S017E02L001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESES02 T14S R17E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	215.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	1962-11-01
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-07
Field Water-level Measurements End Date:	1963-10-07
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.741613
Longitude :	-120.078769
Last Date in Agency List :	2023-11-23

Map Id: 5
Direction: E
Distance: 0.776 mi., 4095 ft.
Elevation: 229 ft.
Relative: Higher

Site Name : 364421120024301
36.739112, -120.046268
CA
Database(s) : [NWIS]

Envirosite ID: 9223068
EPA ID: N/R

NWIS

Site Identification Number :	364421120024301
Site Type :	Well
Station Name :	014S018E18M001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESES06 T14S R18E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	215.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	52
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951-07-27
Date Site Established or Inventoried:	1952-09-17
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	129
Hole Depth :	160
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-21
Field Water-level Measurements End Date:	1963-10-21
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.739112
Longitude :	-120.046268
Last Date in Agency List :	2023-11-23

Map Id: 6
Direction: ENE
Distance: 0.792 mi., 4184 ft.
Elevation: 231 ft.
Relative: Higher

Site Name : 364440120024501
36.74439, -120.046824
CA
Database(s) : [NWIS]

Envirosite ID: 9223097
EPA ID: N/R

NWIS

Site Identification Number :	364440120024501
Site Type :	Well
Station Name :	014S018E06E001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SENE06 T14S R18E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	223.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	52
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1953-06-06
Date Site Established or Inventoried:	1962-10-22
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	250
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-16
Field Water-level Measurements End Date:	1963-10-16
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.74439
Longitude :	-120.046824
Last Date in Agency List :	2023-11-23

Map Id: 7
Direction: S
Distance: 0.805 mi., 4251 ft.
Elevation: 220 ft.
Relative: Lower

Site Name : 364337120035201
36.726891, -120.065435
CA
Database(s) : [NWIS]

Envirosite ID: 9198188
EPA ID: N/R

NWIS

Site Identification Number :	364337120035201
Site Type :	Well
Station Name :	014S017E12M001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNWSWS12 T14S R17E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	213.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1951
Date Site Established or Inventoried:	1957-01-23
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	140
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-08
Field Water-level Measurements End Date:	1963-10-08
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.726891
Longitude :	-120.065435
Last Date in Agency List :	2023-11-23

Map Id: 8
Direction: WSW
Distance: 0.864 mi., 4563 ft.
Elevation: 216 ft.
Relative: Lower

Site Name : 364358120044701
36.732724, -120.080713
CA
Database(s) : [NWIS]

Envirosite ID: 9232433
EPA ID: N/R

NWIS

Site Identification Number :	364358120044701
Site Type :	Well
Station Name :	014S017E11C001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NWNENWS11 T14S R17E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	210.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	20
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1937
Date Site Established or Inventoried:	1957-01-23
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNNNNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	124
Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.732724
Longitude :	-120.080713
Last Date in Agency List :	2023-11-23

Envirosite ID: 9198204
EPA ID: N/R

Envirosite ID: 9198204
EPA ID: N/R

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Map Id: A10
 Direction: SE
 Distance: 0.919 mi., 4855 ft.
 Elevation: 224 ft.
 Relative: Higher

Site Name : CA1000585
 14452 W. KEARNEY BLVD.
 KERNAN, CA 93630
Database(s) : [PWS, PWS ENF]

Envirosite ID: 841544
EPA ID: N/R

PWS

Facility Address : 14452 W. KEARNEY BLVD., KERNAN, CA 93630

PWS ID : CA1000585
 PWS Type : Community water system
 PWS Name : MURRIETA/HERNANDEZ FARMS
 Activity Status : Active
 Primary Source : Ground water
 Submission Year : 2023
 Submission Year Quarter : 2023Q2
 Population Served Count : 25
 Service Connections Count : 10
 Population Category 2 : <10,000
 Population Category 3 : <=3300
 Population Category 4 : <10K
 Population Category 5 : <=500
 Population Category 11 : <=100
 Submission Quarter : 2
 Submission Status Code : Y
 First Reported Date : 2010-04-21
 Last Reported Date : 2023-07-03
 Deactivation Date : N/R
 GW or SW : Groundwater
 Is Grant Eligible : Y
 Is Outstanding Performer : N/R
 Is School or Daycare : N
 Is Source Water Protected : N/R
 Primacy Agency : California
 Primacy Type : State
 Org Name : HERNANDEZ, MANUEL
 EPA Region : Region 9
 Admin Name : HERNANDEZ, MANUEL
 Owner Type : Private
 Phone Number : 559-304-7776
 Phone Ext Number : N/R
 Alt Phone Number : N/R
 Email Address : mandmhernandez559@yahoo.com
 Fax Number : 559-846-4002
 Is Wholesaler : N
 LT2 Schedule Category : N/R
 NPM Candidate : Y
 CDS ID : N/R
 DBPR Schedule Category : N/R
 Outstanding Performer Date : N/R
 Season Begin Date : N/R
 Season End Date : N/R
 Source Water Protection Date : N/R
 Seasonal Startup System : N/R
 Reduced Monitoring Begin Date : N/R
 Reduced Monitoring End Date : N/R
 Reduced RTCR Monitoring : N/R
 Last Date in Agency List : 2023-09-13

PWS ENF

Facility Address : 14452 W. KEARNEY BLVD., KERNAN, CA 93630

Map Id: A10
Direction: SE
Distance: 0.919 mi., 4855 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : CA1000585
14452 W. KEARNEY BLVD.
KERMAN, CA 93630
Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 841544
EPA ID: N/R

PWS ENF (cont.)

Site Details

PWS ID :	CA1000585
PWS Name :	MURRIETA/HERNANDEZ FARMS
EPA Region :	Region 9
Primacy Agency :	California
PWS Type :	Community water system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	559-304-7776
Last Date in Agency List :	2023-09-20

Violation Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosearch account representative for a complimentary site report containing all of the details available.

RTC Enforcement ID :	N/R
Violation ID :	1223021
Submission Year :	2023
Violation First Reported Date :	2022-05-16
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	14452 W. KEARNEY BLVD., KERMAN, 93630
Address Line 2 :	N/R
Compliance Status :	Known
RTC Date :	N/R
Enforcement Action Description :	State Administrative/Compliance Order without penalty issued
Admin Name :	HERNANDEZ, MANUEL
Email Address :	mandmhernandez559@yahoo.com

RTC Enforcement ID :	1223009
Violation ID :	1123010
Submission Year :	2023
Violation First Reported Date :	2013-06-26
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	1

Map Id: A10
 Direction: SE
 Distance: 0.919 mi., 4855 ft.
 Elevation: 224 ft.
 Relative: Higher

Site Name : CA1000585
 14452 W. KEARNEY BLVD.
 KERNAN, CA 93630
Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 841544
EPA ID: N/R

PWS ENF (**cont.**)

Address Line 1 : 14452 W. KEARNEY BLVD., KERNAN, 93630
 Address Line 2 : N/R
 Compliance Status : Returned to Compliance
 RTC Date : 2012-04-09
 Enforcement Action Description : State Compliance achieved
 Admin Name : HERNANDEZ, MANUEL
 Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
 Violation ID : 1223012
 Submission Year : 2023
 Violation First Reported Date : 2013-06-26
 Contaminant Name : Nitrate
 Rule Family : Inorganic Chemicals
 Rule Group : Chemicals
 Rule Name : Nitrates
 Violation Type : Maximum Contaminant Level Violation, Average
 Is Health Based : Y
 Is Major Violation : N/R
 Severity Indicator Count : N/R
 Public Notification Tier : 1
 Address Line 1 : 14452 W. KEARNEY BLVD., KERNAN, 93630
 Address Line 2 : N/R
 Compliance Status : Returned to Compliance
 RTC Date : 2012-04-09
 Enforcement Action Description : State Compliance achieved
 Admin Name : HERNANDEZ, MANUEL
 Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
 Violation ID : 1123005
 Submission Year : 2023
 Violation First Reported Date : 2013-06-26
 Contaminant Name : Nitrate
 Rule Family : Inorganic Chemicals
 Rule Group : Chemicals
 Rule Name : Nitrates
 Violation Type : Maximum Contaminant Level Violation, Average
 Is Health Based : Y
 Is Major Violation : N/R
 Severity Indicator Count : N/R
 Public Notification Tier : 1
 Address Line 1 : 14452 W. KEARNEY BLVD., KERNAN, 93630
 Address Line 2 : N/R
 Compliance Status : Returned to Compliance
 RTC Date : 2012-04-09
 Enforcement Action Description : State Compliance achieved
 Admin Name : HERNANDEZ, MANUEL
 Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
 Violation ID : 1023004
 Submission Year : 2023
 Violation First Reported Date : 2013-06-26

Map Id: A10
Direction: SE
Distance: 0.919 mi., 4855 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : CA1000585
14452 W. KEARNEY BLVD.
Kerman, CA 93630
Database(s) : [PWS, PWS ENF] (**cont.**)

EnviroSite ID: 841544
EPA ID: N/R

PWS ENF (cont.)

Contaminant Name : Nitrate
Rule Family : Inorganic Chemicals
Rule Group : Chemicals
Rule Name : Nitrates
Violation Type : Maximum Contaminant Level Violation, Average
Is Health Based : Y
Is Major Violation : N/R
Severity Indicator Count : N/R
Public Notification Tier : 1
Address Line 1 : 14452 W. KEARNEY BLVD., Kerman, 93630
Address Line 2 : N/R
Compliance Status : Returned to Compliance
RTC Date : 2012-04-09
Enforcement Action Description : State Compliance achieved
Admin Name : HERNANDEZ, MANUEL
Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
Violation ID : 1123013
Submission Year : 2023
Violation First Reported Date : 2013-06-26
Contaminant Name : Consumer Confidence Rule
Rule Family : Consumer Confidence Rule
Rule Group : Other
Rule Name : Consumer Confidence Rule
Violation Type : Consumer Confidence Report Complete Failure to Report
Is Health Based : N
Is Major Violation : N/R
Severity Indicator Count : N/R
Public Notification Tier : 3
Address Line 1 : 14452 W. KEARNEY BLVD., Kerman, 93630
Address Line 2 : N/R
Compliance Status : Returned to Compliance
RTC Date : 2012-04-09
Enforcement Action Description : State Compliance achieved
Admin Name : HERNANDEZ, MANUEL
Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
Violation ID : 1123008
Submission Year : 2023
Violation First Reported Date : 2013-06-26
Contaminant Name : Coliform (TCR)
Rule Family : Total Coliform Rules
Rule Group : Microbials
Rule Name : Total Coliform Rule
Violation Type : Monitoring, Repeat Major (TCR)
Is Health Based : N
Is Major Violation : N/R
Severity Indicator Count : N/R
Public Notification Tier : 3
Address Line 1 : 14452 W. KEARNEY BLVD., Kerman, 93630
Address Line 2 : N/R
Compliance Status : Returned to Compliance
RTC Date : 2012-04-09

Map Id: A10
Direction: SE
Distance: 0.919 mi., 4855 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : CA1000585
14452 W. KEARNEY BLVD.
KERMAN, CA 93630
Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 841544
EPA ID: N/R

PWS ENF (**cont.**)

Enforcement Action Description : State Compliance achieved
Admin Name : HERNANDEZ, MANUEL
Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
Violation ID : 1023003
Submission Year : 2023
Violation First Reported Date : 2013-06-26
Contaminant Name : Nitrate
Rule Family : Inorganic Chemicals
Rule Group : Chemicals
Rule Name : Nitrates
Violation Type : Maximum Contaminant Level Violation, Average
Is Health Based : Y
Is Major Violation : N/R
Severity Indicator Count : N/R
Public Notification Tier : 1
Address Line 1 : 14452 W. KEARNEY BLVD., KERMAN, 93630
Address Line 2 : N/R
Compliance Status : Returned to Compliance
RTC Date : 2012-04-09
Enforcement Action Description : State Compliance achieved
Admin Name : HERNANDEZ, MANUEL
Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
Violation ID : 1223015
Submission Year : 2023
Violation First Reported Date : 2013-06-26
Contaminant Name : Coliform (TCR)
Rule Family : Total Coliform Rules
Rule Group : Microbials
Rule Name : Total Coliform Rule
Violation Type : Monitoring, Routine Major (TCR)
Is Health Based : N
Is Major Violation : N/R
Severity Indicator Count : N/R
Public Notification Tier : 3
Address Line 1 : 14452 W. KEARNEY BLVD., KERMAN, 93630
Address Line 2 : N/R
Compliance Status : Returned to Compliance
RTC Date : 2012-04-09
Enforcement Action Description : State Compliance achieved
Admin Name : HERNANDEZ, MANUEL
Email Address : mandmhernandez559@yahoo.com

RTC Enforcement ID : 1223009
Violation ID : 1123009
Submission Year : 2023
Violation First Reported Date : 2013-06-26
Contaminant Name : Coliform (TCR)
Rule Family : Total Coliform Rules
Rule Group : Microbials
Rule Name : Total Coliform Rule

Map Id: A10
Direction: SE
Distance: 0.919 mi., 4855 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : CA1000585
14452 W. KEARNEY BLVD.
KERMAN, CA 93630
Database(s) : [PWS, PWS ENF] (**cont.**)

Envirosite ID: 841544
EPA ID: N/R

PWS ENF (cont.)

Violation Type :	Monitoring, Routine Minor (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	14452 W. KEARNEY BLVD., KERMAN, 93630
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	2012-04-09
Enforcement Action Description :	State Compliance achieved
Admin Name :	HERNANDEZ, MANUEL
Email Address :	mandmhernandez559@yahoo.com

Map Id: 11
Direction: ENE
Distance: 0.924 mi., 4877 ft.
Elevation: 232 ft.
Relative: Higher

Site Name : 364440120023601
36.74439, -120.044324
CA
Database(s) : [NWIS]

Envirosite ID: 9217735
EPA ID: N/R

NWIS

Site Identification Number :	364440120023601
Site Type :	Well
Station Name :	014S018E06F001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	SENE06 T14S R18E M
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	225.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	52
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Valley flat
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1953
Date Site Established or Inventoried:	1962-10-22
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YNNNNYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	130

Map Id: 11
Direction: ENE
Distance: 0.924 mi., 4877 ft.
Elevation: 232 ft.
Relative: Higher

Site Name : 364440120023601
36.74439, -120.044324
CA
Database(s) : [NWIS] (*cont.*)

Envirosite ID: 9217735
EPA ID: N/R

NWIS (*cont.*)

Hole Depth :	N/R
Source of Depth Data :	R
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-16
Field Water-level Measurements End Date:	1963-10-16
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.74439
Longitude :	-120.044324
Last Date in Agency List :	2023-11-23

Map Id: 12
Direction: NNW
Distance: 0.992 mi., 5238 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : 364522120041201
36.756057, -120.070992
CA
Database(s) : [NWIS]

Envirosite ID: 9211491
EPA ID: N/R

NWIS

Site Identification Number :	364522120041201
Site Type :	Well
Station Name :	013S017E35J001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	NESWS36 T13S R17E M
Name of Location Map :	BIOLA
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	220.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	52
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1956-08-28

Map Id: 12
 Direction: NNW
 Distance: 0.992 mi., 5238 ft.
 Elevation: 226 ft.
 Relative: Higher

Site Name : 364522120041201
 36.756057, -120.070992
 CA
Database(s) : [NWIS] (*cont.*)

Envirosite ID: 9211491
EPA ID: N/R

NWIS (*cont.*)

Date Site Established or Inventoried:	1962-10-24
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YYNNYYNN
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	78
Hole Depth :	124
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	1963-10-24
Field Water-level Measurements End Date:	1963-10-24
Field Water-Level Measurements Count:	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.756057
Longitude :	-120.070992
Last Date in Agency List :	2023-11-23

RADON DATA:

STATE SOURCE: CA

Radon Test Results:

<u>Zip:</u>	<u>Total Sites:</u>	<u>Cnt >=4 pCi/L:</u>	<u>Pct >= 4 pCi/L:</u>	<u>Max Result (pCi/L):</u>
93630	38	16	42.105	6

FEDERAL AREA RADON INFORMATION FOR: 93630

NUMBER OF SAMPLE SITES: 1

<u>Area:</u>	<u>Average Activity:</u>	<u>% <4 pCi/L:</u>	<u>% 4-20 pCi/L:</u>	<u>% >20 pCi/L:</u>
first floor	0.9 pCi/L	100%	0%	0%

FEDERAL EPA RADON ZONE FOR FRESNO COUNTY: Zone = 2

Note: Zone 1 indoor average level > 4 pCi/L

: Zone 2 indoor average level > = 2 pCi/L and <= 4 pCi/L

: Zone 3 indoor average < 2 pCi/L

HIST PWS ENF

Historical Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

NWIS

National Water Information Systems

United States Geological Society

(703) 648-5953

Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS

Public Water Supply

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems

PWS ENF

Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems with enforcement violations

WELLS - GAMA - CA

California Groundwater Ambient Monitoring Assessment

State Water Resources Control Board

916-341-5791

Brings together datasets from California state agencies including: Public Health Water Resources and Pesticide Regulation as well as from the US Geological Survey Lawrence Livermore National Laboratory and the Water Boards. It shows results for untreated raw water in different types of wells for naturally-occurring and man-made chemicals.

FLOOD Q3

Flood data

Environmental Protection Agency

(202) 566-1667

Q3 Flood Data

HYDROLOGIC UNIT

Hydrologic Unit Maps

USGS

The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI

National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

SSURGO

Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI

General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE

USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

DAMS - CA

California Dam Inundation Maps
Department of Water Resources
916-845-8275
Dam inundation maps show the maximum extent of damage of a flood wave from a dam failure

OIL & GAS WELLS - CA

Oil and Gas Well Data
State of California Department of Conservation
916-327-1042
Oil and gas well locations and detail for all 6 districts

RADON

National Radon Database
U.S. Environmental Protection Agency
215-814-2469
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

RADON - CA

Radon tested locations in California
California Department of Health Services
(916) 449-5674
A table of long term and short term indoor radon measurements

RADON EPA

RADON EPA
U.S. Environmental Protection Agency
215-814-2469
EPA list of Radon zones

AIRPORT FACILITIES

Airport landing facilities

Federal Aviation Administration

(866) 835-5322

Airport landing facilities

BASINS

Better Assessment Science Integrating point & Non-point Sources

U.S. Environmental Protection Agency

855-246-3642

Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

DIGITAL OBSTACLE

Obstacles of interest to aviation users

Federal Aviation Administration

The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

EPICENTERS

National Geographical Data Center

National Geographical Data Center

303-497-6826

List of recent and historic earthquakes and information.

FLOOD DFIRM

National Flood Hazard Layer Database

Federal Emergency Management Agency

The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMA's Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.



CONSTRUCTION PERMIT

COUNTY OF FRESNO
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& M' STREETS, SUITE A

ACTIVE PERMITS YES NO

PHONE NUMBERS
24-HR REQUEST LINE
600-4131
LOCAL: 600-4560
TOLL FREE: 800-742-1011
FAX: 600-4201

Ref #:OTC

Project Address SEC 1-14/17 Kerman CA 93630		Cross Street NIELSEN/MADERA	Project Description ELECTRICAL PANEL CHANGE OUT 125AMP FO R(E) AG PUMP	
Permit #: 17-109517-FC		Issued on: December 18, 2017		APN: 02012006
Owner: GILL JAGROOP S TRUSTEE		Applicant: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*		Contractor: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*
Address: P O BOX 680 Kerman CA 93630		Address: 470 W BLUFF AVE FRESNO CA 93711		Address: 470 W BLUFF AVE FRESNO CA 93711
Phone: : (559)-906-6065		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721
		License #: 393364		License #: 393364
Approvals		Approved By		Date
Application Requirements		Clemente, Aileen		December 18, 2017
Zoning District	Required Setbacks:	Front		Side
AL20		Min	Max	Interior
		35		20
PROJECT INFORMATION				
Big Dry Creek Basin: No		Contractor License Class: B		
FMFCD Rural Streams: No		MWEL0 Occupancy Pending: NO		
Roof Classification: Class C or better		Soil Bearing Capacity(psf): 1000		
Submittal Method: Walk-in				
MECHANICAL				
ELECTRICAL				
1 Service/sub-panel 0 - 200 amps				
PLUMBING				
LICENSED CONTRACTOR'S DECLARATION				
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect.Lic.				
Number 393364		Class B ContractorKUTUMIAN CONSTRUCTION		
FOR OWNER BUILDER SEE FORM F174 ATTACHE				
WORKER'S COMPENSATION DECLARATION				
I hereby affirm under penalty of perjury on of the following declarations:				
<input checked="" type="checkbox"/> I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.				
<input type="checkbox"/> I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued.				
My workers' compensation insurance carrier and policy number : Carrier OP FILE Policy # (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)				
<input type="checkbox"/> I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code. I shall forthwith comply with those provisions.				
Applicant KUTUMIAN CONSTRUCTION				
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.				
CONSTRUCTION LENDING AGENCY				
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).				
Lenders Name		Address		
City		State		
I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.				
Applicant Or Agent				
Date Dec 18 17				

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.

SEC 1-14/17 Kerman CA 93630

POST THIS CARD IN A CONSPICUOUS PLACE
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEVELOPMENT SERVICES DIVISION
2220 Tulare Street, Suite A, Fresno, CA 93721
Office: (559) 600-4560 or 1 (800) 742-1011 FAX: (559) 600-4201



24 HOUR INSPECTION REQUEST
(559) 600-4131
Before 2:30 p.m. for next-day inspection
This is your record of field inspection

JOB ADDRESS:

SEC 1-14/17

AMANDA NUMBER:

17-109517

PERMIT NUMBER:

BUILDING			CORRECTIONS		REMARKS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Flood Prone-Elevation						
Foundation: Forms & Setback						
Foundation / Patio Piers						
Floor Girders & Joists						
Shear Panel Nailing						
Pre-Roof						
Roof Sheathing						
Roof Batten/Felt						
Roof Covering						
Exterior Lath/Siding						
Fireplace Damper						
Fireplace: Roof						
Frame						
Insulation					CASH DEPOSIT	AMOUNT
Shower Wall Over Tub					Temporary Power	
Shower Pan & Walls					Occupancy	
Bond Beam & Steel					APPROVED TO POST	DATE
					BY:	
Pool Steel, Bonding & Setback					APPROVED FOR REFUND	DATE
Pre-Deck					BY:	
Pool Fencing & Gates					REFUNDED	DATE
					BY:	
FINAL INSPECTION						
CERTIFICATE OF OCCUPANCY						
ELECTRICAL			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Conduit: PVC/Galv. Interior						
Conduit: PVC/Galv. Exterior						
Rough Wiring	Ben Johnson	12/20/12				
Elec. Main Panel	Ben Johnson	12/20/12				
Temporary Meter						
Temporary Power Pole						
Ufer Location/Driven Ground	Ben Johnson	12/20/12				
1- Well						
Water Pipe Bond Location						
Wiring To Well	Ben Johnson	12/20/12				
Pool Equipment Bonding						
FINAL INSPECTION	Ben Johnson	12/20/12				
PLUMBING			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Ground Plumbing: Soil						
Water Pipe - Under Floor						
Water Pipe - Above Floor						
Vents & Top Out						
Gas Pipe - Interior						
Gas Test - Interior						
Gas Test - Exterior						
Second Floor Tub Test						
Septic System						
House Sewer						
Water Service PVC/Galv.						
Well Seal Pad						
FINAL INSPECTION						
MECHANICAL			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Ducts Underfloor						
Ducts Overhead						
Wood Burning Appliance						
Refrigeration Unit/Furnace						
Evaporative Cooler						
Gas Pipe						
Gas Test						
FINAL INSPECTION						
					MOBILE HOME	
					TYPE OF INSPECTION	APPROVED BY
					DATE	
					Perm Foundation/Tie-down	
					Flood Prone-Elevation	
					Forms & Setbacks	
					Piers/Anchors	
					Steps/Landings	
					Elec. Service _____ Amps	
					Grounding Electrode	
					Wiring To Well	
					Continuity Test	
					Conduit/Feeders	
					Gas Test - Exterior	
					Gas Test Monometer	
					Sewer	
					Waste Piping	
					Septic System	
					Interior Water Pipe	
					Water Service	
					Well Seal Pad	
					FINAL INSPECTION	
					Certificate of Occupancy	
					OTHER DEPARTMENT CONDITIONS	
					GRADING	FINAL
					G.V. #	
					G.P. #	
					FIRE DEPARTMENT	
					ENVIRONMENTAL HEALTH	
					ROADS	
					C.U.P. #	
					S.P.R. #	
					ALL CONDITIONS MET FOR PROJECT (BUILDING INSPECTOR INITIAL)	



CONSTRUCTION PERMIT

COUNTY OF FRESNO
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES **NO**

PHONE NUMBERS
24-HR REQUEST LINE
600-4131
LOCAL: 600-4560
TOLL FREE: 800-742-1011
FAX: 600-4201

Ref #:OTC

Project Address 15319 W NIELSEN AVE Kerman CA 93630	Cross Street DEL NORTE	Project Description FOUNDATION ONLY FOR PERMIT# 17-107153 (SFR ACCESSORY BUILDING)
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Permit #: 18-104796-FC	Issued on: June 13, 2018	APN: 02012003S
Owner: GILL JAGROOP S TRUSTEE	Applicant: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*	Contractor: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*
Address: P O BOX 680 Kerman CA 93630	Address: 470 W BLUFF AVE FRESNO CA 93711	Address: 470 W BLUFF AVE FRESNO CA 93711
Phone: : (559)-906-6065	Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721	Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721
	License #: 393364	License #: 393364

Approvals	Approved By	Date
Application Requirements	Clemente, Aileen	June 13, 2018

Zoning District	Required Setbacks:	Front		Side		Rear
AL20		Min	Max	Interior	Street	Min
		35		20		20

PROJECT INFORMATION	Contractor License Class: B
Big Dry Creek Basin: No	MWELo Occupancy Pending: NO
FMFCD Rural Streams: No	Roof Classification: Class C or better
Occupancy Pending RTMF: No	Submittal Method: Walk-in
Soil Bearing Capacity(psf): 1000	
WMP Occupancy Pending: NO	

MECHANICAL

ELECTRICAL

PLUMBING

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect.Lic.

Number 393364 Class B ContractorKUTUMIAN CONSTRUCTION

FOR OWNER BUILDER SEE FORM F174 ATTACHE

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury on of the following declarations:

☒ I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.

☒ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued.

My workers' compensation insurance carrier and policy number :
Carrier **ON FILE** Policy # (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code. I shall forthwith comply with those provisions.

Applicant KUTUMIAN CONSTRUCTION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING AGENCY	I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).	Applicant Or Agent [Signature]
Lenders Name _____ Address _____	Date June 13 18
City _____ State _____	

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.

15319 W NIELSEN AVE Kerman CA 93630

POST THIS CARD IN A CONSPICUOUS PLACE
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEVELOPMENT SERVICES DIVISION
2220 Tulare Street, Suite A, Fresno, CA 93721
Office: (559) 600-4560 or 1 (800) 742-1011 FAX: (559) 600-4201



24 HOUR INSPECTION REQUEST
(559) 600-4131
Before 2:30 p.m. for next-day inspection
This is your record of field inspection

AMANDA NUMBER:

PERMIT NUMBER:

JOB ADDRESS:

15319 W. NIELSEN

18-104796

BUILDING			CORRECTIONS		REMARKS
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Flood Prone-Elevation					FOLLOW CORRECTION NOTICE ON
Foundation: Forms & Setback	Ran Zahner	6/22/18	Ran Zahner	6/22/18	ALL LCN TO COMPLETE FRAME
Foundation / Patio Piers	Ran Zahner	6/22/18	Ran Zahner	7/18/18	Ted 7-17-18 RB 10/12/18
Floor Girders & Joists			SB	7/20/18	
Shear Panel Nailing					
Pre-Roof					
Roof Sheathing					
Roof Batten/Felt					
Roof Covering					
Exterior Lath/Siding					
Fireplace Damper					
Fireplace: Roof					
Frame					
Insulation					CASH DEPOSIT
Shower Wall Over Tub					Temporary Power
Shower Pan & Walls					Occupancy
Bond Beam & Steel					APPROVED TO POST
					BY:
					DATE
Pool Steel, Bonding & Setback					APPROVED FOR REFUND
Pre-Deck					BY:
Pool Fencing & Gates					DATE
					REFUNDED
					BY:
					DATE
FINAL INSPECTION					
CERTIFICATE OF OCCUPANCY					
ELECTRICAL			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Conduit: PVC/Galv. Interior					
Conduit: PVC/Galv. Exterior					
Rough Wiring					
Elec. Main Panel _____amps					
Temporary Meter					
Temporary Power Pole					
Ufer Location/Driven Ground					
Water Pipe Bond Location					
Wiring To Well					
Pool Equipment Bonding					
FINAL INSPECTION					
PLUMBING			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Ground Plumbing: Soil waste	Adg	6/14/18	Adg	6/14/18	
Water Pipe – Under Floor					
Water Pipe – Above Floor					
Vents & Top Out					
Gas Pipe – Interior					
Gas Test – Interior					
Gas Test – Exterior					
Second Floor Tub Test					
Septic System					
House Sewer					
Water Service PVC/Galv.					
Well Seal Pad					
FINAL INSPECTION					
MECHANICAL			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Ducts Underfloor					
Ducts Overhead					
Wood Burning Appliance					
Refrigeration Unit/Furnace					
Evaporative Cooler					
Gas Pipe					
Gas Test					
FINAL INSPECTION					
					ALL CONDITIONS MET FOR PROJECT (BUILDING INSPECTOR INITIAL)



CONSTRUCTION PERMIT

County of Fresno

DEVELOPMENT SERVICES DIVISION

MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES NO

PHONE NUMBERS
24-HR REQUEST LINE
262-4131
LOCAL: 262-4469
TOLL FREE: 800-742-1011
FAX: 262-4893

15319 W NIELSEN AVE KERMAN

Project Address 15319 W NIELSEN AVE KERMAN CA 93630	Cross Street DEL NORTE AVENUE	Project Description: GAZEBO
Permit #: 06-106817-FC Issued on October 20, 2006		APN: 02012003S
Owner: GILL JAGROOP S & RUPINDER K Address: P O BOX 680 KERMAN CA 93630 Phone:	Applicant: TAYLOR BRETT Address: 932 ACACIA CLOVIS CA 93611 \\\nPhone: (559) 355-1721 St. Lic.:	Contractor: NONE Address: NONE Phone: St. Lic.:

APPROVALS	Approved By <i>[Signature]</i>	Date <i>10/20/06</i>
Application Requirements	Books, Bill	October 20, 2006
Plan Review	Books, Bill	October 20, 2006
Zoning District	Required Setbacks:	Front Min Max Side Interior Street Rear Min

PROJECT INFORMATION			
School Fees Due?	No	Consolidated Permit?	Yes
Occupancy 1	Patio (Residential)	Area 1 (sf)	420
Construction Type 1	V-N	Valuation of Construction	5040
Number of Stories	1		

MECHANICAL			
ELECTRICAL			
19	Wiring Outlets	3	Circuits (remodel only)
PLUMBING			

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect. Lic. Number _____ Class _____ Contractor _____

OWNER'S BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5 Business and Professions Code). Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).

☒ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code; The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

☐ I am exempt under Sec. 7031.5 of the B&P Code for this reason.

Owner *Muh J. J. J.* Date *10/20/06*

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury on of the following declarations:

☐ I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number:

Carrier _____ Policy # _____ (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)

☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Applicant *Muh J. J. J.*

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING AGENCY	
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).	I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representatives of this county to enter upon the above-described property for inspection purposes.
Lenders Name _____	Applicant Or Agent <i>Muh J. J. J.</i>
Address _____	Date <i>10-20-06</i>
City _____ State _____	

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.

INSPECTION RECORD

JOB ADDRESS 15319 W. NIELSENPERMIT NUMBER 095073

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING

CORRECTION

OCCUPANCY REQUIREMENTS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Flood Prone-Elevation				
Foundation: Forms & Setback				
Foundation / Patio Piers	<i>Per/CLL</i>	<i>12-6-06</i>		
Floor Girders & Joists				
Shear Panel Nailing				
Pre-Roof				
Roof Sheathing				
Roof Batten/Felt				
Roof Covering				
Exterior Lath/Siding				
Fireplace Damper				
Fireplace: Roof				
Frame	<i>Per/CLL</i>	<i>4-27-07</i>		
Insulation				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing and Gates				

- 1) Flood Prone: ☐ Yes ☐ No
Map No. _____ Zone _____
- 2) Proposed Building Height By Zoning:
Stories _____ Height _____
- 3) School Fees Due: ☐ Yes ☐ No
District(s) _____
Satisfied By _____
Receipt No. _____
- 4) Grading Permit Required? ☐ Yes ☐ No
Permit # _____ Date _____
Finished By _____ Date _____
- 5) Land Use Permit(s)
Permit No. _____
Permit No. _____
Permit No. _____
Is Occupancy Pending? ☐ Yes ☐ No
Site Conditions Satisfied
By _____ Date _____
- 6) Soil Capacity (Surface) _____ PSF

FIRE PROTECTION: SRA ☐ Yes ☐ No

REQ.	ITEM	INSPECTOR	DATE
	On-Site Water		
	Roof Covering		
	30' Setbacks		
	Driveway		
	Turnouts		
	Address		

FINAL INSPECTION *Per/CLL* *1-5-09*
CERTIFICATE OF OCCUPANCY

ELECTRICAL

CORRECTIONS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior	<i>Per/CLL</i>	<i>1-5-09</i>		
Rough Wiring	<i>Per/CLL</i>	<i>4-27-07</i>		
Elec. Main Panel <u>70</u> Amps	<i>Per/CLL</i>	<i>1-5-09</i>		
Temporary Meter				
Temporary Power Pole				
Ufer Location/Driven Ground @ Panel	<i>Per/CLL</i>	<i>1-5-09</i>		

Water Pipe Bond Location				
Wiring to Well				
Pool Equipment Bonding				

FINAL INSPECTION *Per/CLL* *1-5-09*

PLUMBING

CORRECTIONS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ground Plumbing: Soil	<i>Per/CLL</i>	<i>4-27-07</i>		
Water Pipe - Under Floor				
Water Pipe - Above Floor	<i>Per/CLL</i>	<i>4-27-07</i>		
Vents & Top Out	<i>Per/CLL</i>	<i>4-27-07</i>		
Gas Pipe - Interior				
Gas Test - Interior				
Gas Test - Exterior				
Second Floor Tub Test				
Septic System				
House Sewer T.E.-In	<i>Per/CLL</i>	<i>4-27-07</i>		
Water Service PVC/Galv.	<i>Per/CLL</i>	<i>1-5-09</i>		
Well Seal Pad				

FINAL INSPECTION *Per/CLL* *1-5-09*

Mechanical

CORRECTIONS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ducts Underfloor				
Ducts Overhead				
Wood Burning Appliance				
Refrigeration Unit/Furnace				
Evaporative Cooler				
Gas Pipe				
Gas Test				

FINAL INSPECTION

MOBILE HOME

TYPE OF INSPECTION	APPROVED BY	DATE
Perm Foundation/Tie-down		
Flood Prone-Elevation		
Forms & Setbacks		
Piers/Anchors		
Steps/Landings		
Elec. Service _____ Amps		
Grounding Electrode		
Wiring To Well		
Continuity Test		
Conduit/Feeders		
Gas Test - Exterior		
Gas Test Manometer		
Sewer		
Waste Piping		
Septic System		
Interior Water Pipe		
Water Service		
Well Seal Pad		

FINAL INSPECTION
Certificate of Occupancy

REMARKS

CASH DEPOSIT Temporary Power Occupancy	AMOUNT
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

HAZARDOUS MATERIAL STORAGE FOR NON-RESIDENTIAL CONSTRUCTION

I certify that the occupants of this building (will/will not) need to comply with the applicable requirements of Section 25505, 25533, & 25534 of the Health and Safety Code and the requirements for a permit for construction or modification by the Air Pollution District.

Applicant



CONSTRUCTION PERMIT

County of Fresno
DEVELOPMENT SERVICES DIVISION

MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES NO

PHONE NUMBERS
24-HR REQUEST LINE
262-4131
LOCAL: 262-4469
TOLL FREE: 800-742-1011
FAX: 262-4893

NIELSEN AVE KERMAN

#088644

15319 Project Address NIELSEN AVE KERMAN CA 93630	Cross Street DEL NORTE AVENUE	Project Description: SFR & ATTACHED GARAGE
Permit #: 05-101113-FC Issued on June 07, 2006		APN: 020120035
Owner: GILL JAGROOP S & RUPINDER K Address: P O BOX 680 KERMAN CA 93630 Phone:	Applicant: BEN JAMES RESIDENTIAL & STRUC Address: 4210 DELNO CA Phone: (559) 248-9780 St. Lic.:	Contractor: NONE Address: NONE Phone: St. Lic.:

APPROVALS	Approved By <i>AM</i>	Date <i>6/7/06</i>		
Application Requirements	Lucchesi, Ron	June 07, 2006		
Issuance Review	Lucchesi, Ron	June 07, 2006		
Zoning District AL20	Required Setbacks:	Front Min 35	Side Interior 20	Rear Min 20

PROJECT INFORMATION

Flood Hazard Area	None	School District(s)	Kerman Unified
Occupancy Pending?	Yes	Fire Hazard Zone	No
Septic Factor	25	Surface Soil Bearing Capacity (psf)	1000
Allowable Building Height	2 stories or 35 feet	Consolidated Permit?	Yes
Occupancy 1	Dwelling	Area 1 (sf)	7320
Construction Type 1	V-N	Occupancy 2	Garage (Private)
Area 2 (sf)	1749	Construction Type 2	V-N
Occupancy 3	Patio (Residential)	Area 3 (sf)	2298
Construction Type 3	V-N	Valuation of Construction	519894
Number of Stories	2		

MECHANICAL			
1	EPA Phase II Woodburning Appliance	7320	New Construction (sq. ft)
ELECTRICAL			
1	Service/sub-panel 201 - 400 amps	7320	New Construction (sq. ft)
PLUMBING			
140	On-site Water Piping (ft)	20	On-site Gas Piping (ft)
4	Gas Appliance	3	Number of Bathrooms (3 max)
		1	Septic System Installation
		12	Number of Fixtures over 3 Bathrooms

LICENSED CONTRACTOR'S DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect. Lic. Number _____ Class _____ Contractor _____

OWNER'S BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5 Business and Professions Code). Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).
☒ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).
☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).
☐ I am exempt under Sec. _____ B&PC for this reason.
Owner *[Signature]* Date *6/7/06*

WORKER'S COMPENSATION DECLARATION
I hereby affirm under penalty of perjury on of the following declarations:
☐ I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number: _____
Employer _____ Policy # _____ (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)
☒ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Applicant *[Signature]*
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING AGENCY I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C). Lenders Name _____ Address _____ City _____ State _____	I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-described property for inspection purposes. Applicant Or Agent <i>[Signature]</i> Date <i>6/7/06</i>
--	--

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS

JOB ADDRESS 15319 W. NIELSEN

PERMIT NUMBER 088644

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING

CORRECTION

OCCUPANCY REQUIREMENTS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Flood Prone-Elevation				
Foundation: Forms & Setback		9/15/06		9/6/06
Foundation: Piers	STBBL Columns			
Floor Girders & Joists				
Shear Panel Nailing	LESS C/N	9/15/06		11-28-06
Pre-Roof				
Roof Sheathing		11/29/06		5-7-07
Roof Batten/Felt		11/29/06		12/3/06
Roof Covering	LESS FUR	5-3-07		
Exterior Lath/Siding		5-3-07		
Fireplace Damper				
Fireplace: Roof				
Frame	Per C.N.	5-7-07		
Insulation				
Shower Wall Over Tub		10-18-07		
Shower Pan & Walls		10-18-07		
Bond Beam & Steel				
STBBL Columns Day Pack		10/16/06		
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing and Gates				
DAY PACK STBBL COLUMNS	STBBL PLANS	10/3/06		
FINAL INSPECTION		1-5-09		
CERTIFICATE OF OCCUPANCY		1-5-09		

- 1) Flood Prone: ☐ Yes ☐ No
Map No. _____ Zone _____
- 2) Proposed Building Height By Zoning:
Stories _____ Height _____
- 3) School Fees Due: ☐ Yes ☐ No
District(s) _____
Satisfied By _____
Receipt No. _____
- 4) Grading Permit Required? ☐ Yes ☐ No
Permit # _____ Date _____
Finaled By _____ Date _____
- 5) Land Use Permit(s)
Permit No _____
Permit No _____
Permit No _____
Is Occupancy Pending? ☐ Yes ☐ No
Site Conditions Satisfied
By _____ Date _____
- 6) Soil Capacity (Surface) _____ PSF

FIRE PROTECTION: SRA ☐ Yes ☐ No

REQ.	ITEM	INSPECTOR	DATE
	On-Site Water		
	Roof Covering		
	30' Setbacks		
	Driveway		
	Turnouts		
	Address		

MOBILE HOME

TYPE OF INSPECTION	APPROVED BY	DATE
Perm Foundation/Tie-down		
Flood Prone-Elevation		
Forms & Setbacks		
Piers/Anchors		
Steps/Landings		
Elec. Service _____ Amps		
Grounding Electrode		
Wiring To Well		
Continuity Test		
Conduit/Feeders		
Gas Test - Exterior		
Gas Test Manometer		
Sewer		
Waste Piping		
Septic System		
Interior Water Pipe		
Water Service		
Well Seal Pad		
FINAL INSPECTION		
Certificate of Occupancy		

REMARKS

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior		7-25-07		4-27-07
Rough Wiring	L.C.N.	12-07		
Elec. Main Panel	900 Amps	12-30-08		
Temporary Meter		6-18-07		
Temporary Power Pole				
Ufer Location/Driven Ground	N.E. GROUND	9/6/06		

Water Pipe Bond Location				
Wiring to Well				
Pool Equipment Bonding				
FINAL INSPECTION				

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ground Plumbing: Soil		8-21-06		8-18-06
Water Pipe - Under Floor				
Water Pipe - Above Floor		4-27-07		12-30-08
Vents & Top Out		4-27-07		
Gas Pipe - Interior		4-27-07		
Gas Test - Interior		12-30-08		
Gas Test - Exterior		5-5-08		
Second Floor Tub Test				
Septic System				
House Sewer		11-7-07		
Water Service PVC/Galv.		11-7-07		
Well Seal Pad		11-7-07		

FINAL INSPECTION				
------------------	--	--	--	--

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ducts Underfloor				
Ducts Overhead		5-7-07		5-2-07
Wood Burning Appliance				5-7-07
Refrigeration Unit/Furnace				5-2-07
Evaporative Cooler		12/30/08		
Gas Pipe				
Gas Test				
FINAL INSPECTION		1-5-09		

CASH DEPOSIT
Temporary Power
Occupancy

AMOUNT

APPROVED TO POST

DATE

APPROVED FOR REFUND

DATE

REFUNDED
BY:

DATE

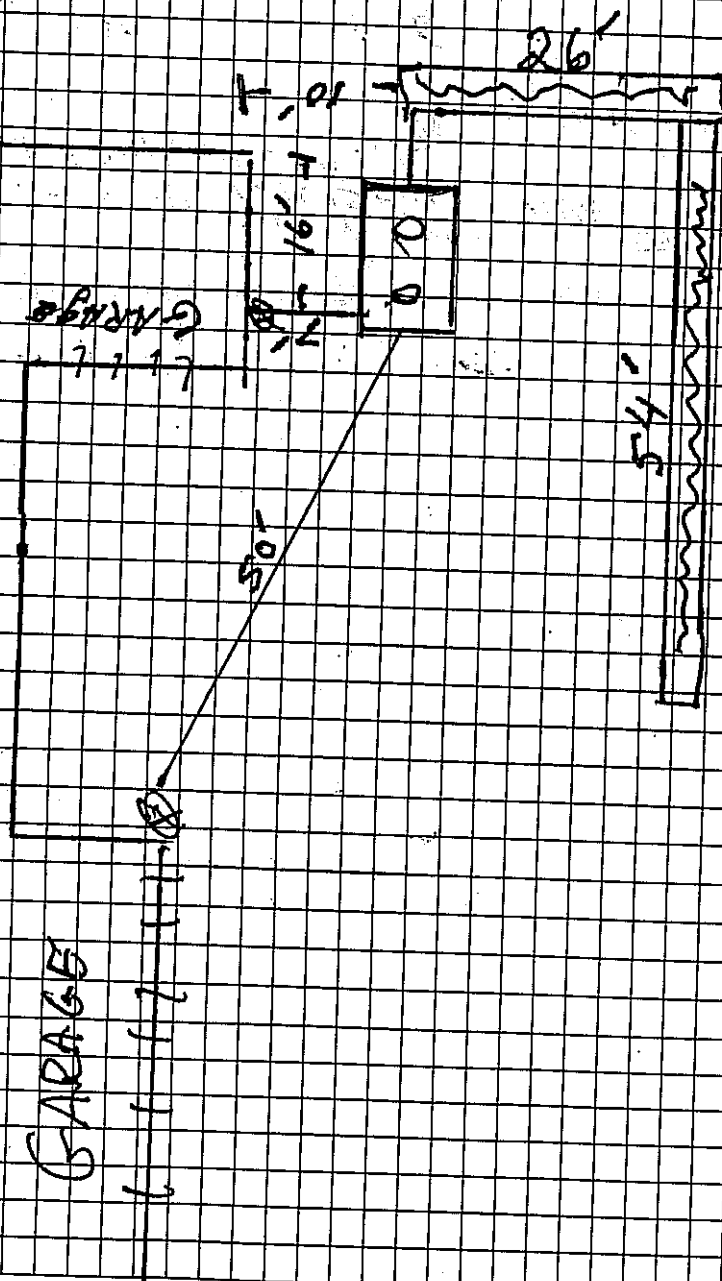
HAZARDOUS MATERIAL STORAGE FOR NON-RESIDENTIAL CONSTRUCTION

I certify that the occupants of this building (will/will not) need to comply with the applicable requirements of Section 25505, 25533, & 25534 of the Health and Safety Code and the requirements for a permit for construction or modification by the Air Pollution District.

Job Address: 15319 W. NIELSEN



W. NIELSEN



NOTE: Plot water well location

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS

CONTRACTOR: CAL SEWAGE

TANK TYPE:

☒ CONCRETE

☐ METAL

☐ OTHER

TANK SIZE:

DIA. 1ST COMP

2ND COMP

3RD COMP

LIQUID DEPTH

SEEPAGE PITS:

NUMBER

DIAMETER _____ FT.

DEPTH _____ FT.

DIST. TO WELL _____ FT.

LEACHING FIELD

TOTAL LENGTH 80 FT.

TOTAL WIDTH 24 IN.

NO. OF LINES 2

ROCK UNDER PIPE 36 IN.

DIST. TO WELL 300 + FT.

MKM

TOTAL LIQUID:

CAPACITY 1500 GAL.

SQUARE FEET

SQUARE FEET 480

MANUFACTURER:

PLOTTED BY:

G. MORRIS

DATE: 11-7-07



CONSTRUCTION PERMIT
County of Fresno
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES NO
PHONE NUMBERS
24-HR REQUEST LINE
262-4131
LOCAL: 262-4469
TOLL FREE: 800-742-1011
FAX: 262-4893

15319 W NIELSEN AVE KERMAN

Project Address 15319 W NIELSEN AVE KERMAN CA 93630	Cross Street DEL NORTE AVENUE	Project Description: ADDENDUM TO PERMIT #088644 ADDED PATIO SQAURE FOOTAGE
Permit #: 07-101656-FC Issued on March 28, 2007		APN: 02012003S
Owner: GILL JAGROOP S & RUPINDER K Address: P O BOX 680 KERMAN CA 93630 Phone: (559) 906-6065	Applicant: BEN JAMES RESIDENTIAL & STRUC Address: 4210 DELNO CA \ Phone: (559) 248-9780 St. Lic.:	Contractor: NONE Address: NONE Phone: St. Lic.:

APPROVALS	Approved By	Date
Application Requirements	Solano, Danny	March 28, 2007
Plan Review	Solano, Danny	March 28, 2007
Zoning District	Required Setbacks:	Front Min Max Side Interior Street Rear Min

PROJECT INFORMATION

MECHANICAL	
ELECTRICAL	
PLUMBING	

LICENSED CONTRACTOR'S DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect. Lic. Number _____ Class _____ Contractor _____

OWNER'S BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5 Business and Professions Code). Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).
☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).
☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).
☐ I am exempt under Sec. _____ B&PC for this reason.
Owner _____ Date _____

WORKER'S COMPENSATION DECLARATION
I hereby affirm under penalty of perjury on of the following declarations:
☐ I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.
☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number :
Carrier _____ Policy # _____ (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)
☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with these provisions.
Applicant
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING AGENCY I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C). Lenders Name _____ Address _____ City _____ State _____	I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes. Applicant _____ Or Agent _____ Date 3/28/07
--	---

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.

INSPECTION RECORD

JOB ADDRESS 15319 W. Nielsen

PERMIT NUMBER 101192

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING		CORRECTION		OCCUPANCY REQUIREMENTS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Flood Prone-Elevation					1) Flood Prone: <input type="checkbox"/> Yes <input type="checkbox"/> No
Foundation: Forms & Setback	<u>2022</u>	<u>3/29/07</u>			Map No. _____ Zone _____
Foundation / Patio Piers					2) Proposed Building Height By Zoning:
Floor Girders & Joists					Stories _____ Height _____
Shear Panel Nailing					3) School Fees Due: <input type="checkbox"/> Yes <input type="checkbox"/> No
Pre-Roof					District(s) _____
Roof Sheathing					Satisfied By _____
Roof Batten/Felt					Receipt No. _____
Roof Covering					4) Grading Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Exterior Lath/Sliding					Permit # _____ Date _____
Fireplace Damper					Finale By _____ Date _____
Fireplace: Roof					5) Land Use Permit(s)
Frame					Permit No _____
Insulation					Permit No _____
Shower Wall Over Tub					Permit No _____
Shower Pan & Walls					Is Occupancy Pending? <input type="checkbox"/> Yes <input type="checkbox"/> No
Bond Beam & Steel					Site Conditions Satisfied
					By _____ Date _____
Pool Steel, Bonding & Setback					6) Soil Capacity (Surface) _____ PSF
Pre-Deck					FIRE PROTECTION: SRA <input type="checkbox"/> Yes <input type="checkbox"/> No
Pool Fencing and Gates					REQ. ITEM INSPECTOR DATE
					On-Site Water
					Roof Covering
					30' Setbacks
					Driveway
					Tumouts
					Address

FINAL INSPECTION B. Lutz 12/26/07

CERTIFICATE OF OCCUPANCY

ELECTRICAL		CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR
Conduit: PVC/Galv. Interior			
Conduit: PVC/Galv. Exterior			
Rough Wiring			
Elec. Main Panel _____ Amps			
Temporary Meter			
Temporary Power Pole			
Ufer Location/Driven Ground			
Water Pipe Bond Location			
Wiring to Well			
Pool Equipment Bonding			

FINAL INSPECTION

PLUMBING		CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR
Ground Plumbing: Soil			
Water Pipe - Under Floor			
Water Pipe - Above Floor			
Vents & Top Out			
Gas Pipe - Interior			
Gas Test - Interior			
Gas Test - Exterior			
Second Floor Tub Test			
Septic System			
House Sewer			
Water Service PVC/Galv.			
Well Seal Pad			

FINAL INSPECTION

Mechanical		CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR
Ducts Underfloor			
Ducts Overhead			
Wood Burning Appliance			
Refrigeration Unit/Furnace			
Evaporative Cooler			
Gas Pipe			
Gas Test			

FINAL INSPECTION

HAZARDOUS MATERIAL STORAGE FOR NON-RESIDENTIAL CONSTRUCTION
 I certify that the occupants of this building (will/will not) need to comply with the applicable requirements of Section 25505, 25533, & 25534 of the Health and Safety Code and the requirements for a permit for construction or modification by the Air Pollution District.

Applicant

CASH DEPOSIT	AMOUNT
Temporary Power	
Occupancy	
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

REMARKS

020-120-03S

4/3/06

SINGLE FAMILY RESIDENCE W/ATT. GAR.

PC-085655

SUR-085655

- Scanned 11/8/09

6/7/06

SINGLE FAMILY RESIDENCE W/ATT. GAR.

B-088644

P-088644

E-088644

M-088644

- Scanned 11/8/09

10/20/06

GAZEBO

PC-095073

B-095073

E-095073

- Scanned 11/8/09

3/28/07

ADDENDUM

B-101192

- Scanned 11/8/09

11/15/07

IN-GROUND SWIMMING POOL W/SPA & NATURAL GAS

FIRE PIT

P-111067

SWIM-111067

- Scanned 11/27/09

15319 NIELSEN AVE.

7/6/17 SOLAR GROUND MOUNT FOR SFR.

B-96242 *scanned 8/4/17 JLL*

17-100920

E-96242

15319 NIELSEN

18-104796

6/13/18 FOUNDATION ONLY FOR PERMIT #17-107153

B-107789

15319 NIELSEN

7/3/18

18-104764

6/13/18 SEPTIC SYSTEM TEST HOLE [SITE ASSESSMENT
FOR SFR ASSESSORY BUILDING UNDER
AMANDA #17-107153]

P-107788 *scanned 7/3/18 LAK*

7/5/18

SEPTIC SYSTEM (NEW) FOR POOL HOUSE

P-108594

9/25/18 SFR ACC BLDG 17-107153

B-111544

P-11154

E-11154

9/25/18 GV#14280 111543 18-102539



CONSTRUCTION PERMIT

COUNTY OF FRESNO
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES NO

PHONE NUMBERS
24-HR REQUEST LINE
600-4131
LOCAL: 600-4560
TOLL FREE: 800-742-1011
FAX: 600-4201

Ref #:OTC

Project Address 15319 W NIELSEN AVE KERMAN CA 93630		Cross Street DEL NORTE	Project Description SEPTIC SYSTEM TEST HOLE [SITE ASSESSMENT FOR SFR ASSESSORY BUILDING UNDER AMANDA # 17-107153]	
Permit #: 18-104764-FC		Issued on: June 14, 2018		APN: 02012003S
Owner: GILL JAGROOP S TRUSTEE		Applicant: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*		Contractor: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*
Address: P O BOX 680 KERMAN CA 93630		Address: 470 W BLUFF AVE FRESNO CA 93711		Address: 470 W BLUFF AVE FRESNO CA 93711
Phone: : (559)-906-6065		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721
		License #: 393364		License #: 393364
Approvals		Approved By		Date
Application Requirements		Ramirez, Ober		June 12, 2018
Zoning Review		Ramirez, Ober		June 12, 2018
Zoning District	Required Setbacks:	Front		Side
AL20		Min	Max	Interior
				Street
				Rear
				Min
PROJECT INFORMATION				
Big Dry Creek Basin: No				
FMFCD Rural Streams: No				
Occupancy Pending RTMF: No				
Soil Bearing Capacity(psf): 1000				
Contractor License Class: B				
MWEL0 Occupancy Pending: NO				
Roof Classification: Class C or better				
WMP Occupancy Pending: NO				
MECHANICAL				
ELECTRICAL				
PLUMBING				
1 Test Hole(s) Only				
LICENSED CONTRACTOR'S DECLARATION				
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect.Lic.				
Number 393364 Class B ContractorKUTUMIAN CONSTRUCTION				
FOR OWNER BUILDER SEE FORM F174 ATTACHE				
WORKER'S COMPENSATION DECLARATION				
I hereby affirm under penalty of perjury on of the following declarations:				
<input type="checkbox"/> I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.				
<input type="checkbox"/> I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued.				
My workers' compensation insurance carrier and policy number :				
Carrier Policy # (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)				
<input type="checkbox"/> I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code. I shall forthwith comply with those provisions.				
Applicant KUTUMIAN CONSTRUCTION				
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.				
CONSTRUCTION LENDING AGENCY				
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).				
Lenders Name Address				
City State				
I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.				
Applicant Or Agent				
Date				
THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.				

15319 W NIELSEN AVE KERMAN CA 93630

POST THIS CARD IN A CONSPICUOUS PLACE
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEVELOPMENT SERVICES DIVISION
2220 Tulare Street, Suite A, Fresno, CA 93721
Office: (559) 600-4560 or 1 (800) 742-1011 FAX: (559) 600-4201



24 HOUR INSPECTION REQUEST
(559) 600-4131
Before 2:30 p.m. for next-day inspection
This is your record of field inspection

JOB ADDRESS: 15319 W NIELSEN AMANDA NUMBER: _____
PERMIT NUMBER: 18-104764

BUILDING			CORRECTIONS		REMARKS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Flood Prone-Elevation						
Foundation: Forms & Setback						
Foundation / Patio Piers						
Floor Girders & Joists						
Shear Panel Nailing						
Pre-Roof						
Roof Sheathing						
Roof Batten/Felt						
Roof Covering						
Exterior Lath/Siding						
Fireplace Damper						
Fireplace: Roof						
Frame						
Insulation					CASH DEPOSIT	AMOUNT
Shower Wall Over Tub					Temporary Power	
Shower Pan & Walls					Occupancy	
Bond Beam & Steel					APPROVED TO POST	DATE
					BY:	
Pool Steel, Bonding & Setback					APPROVED FOR REFUND	DATE
Pre-Deck					BY:	
Pool Fencing & Gates					REFUNDED	DATE
					BY:	
FINAL INSPECTION						
CERTIFICATE OF OCCUPANCY						
ELECTRICAL			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Conduit: PVC/Galv. Interior						
Conduit: PVC/Galv. Exterior						
Rough Wiring						
Elec. Main Panel _____ Amps						
Temporary Meter						
Temporary Power Pole						
Ufer Location/Driven Ground						
Water Pipe Bond Location						
Wiring To Well						
Pool Equipment Bonding						
FINAL INSPECTION						
PLUMBING			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Ground Plumbing: Soil						
Water Pipe – Under Floor						
Water Pipe – Above Floor						
Vents & Top Out						
Gas Pipe – Interior						
Gas Test – Interior						
Gas Test – Exterior						
Second Floor Tub Test						
Septic System						
House Sewer						
Water Service PVC/Galv.						
Well Seal Pad						
test note						
FINAL INSPECTION						
MECHANICAL			CORRECTIONS			
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Ducts Underfloor						
Ducts Overhead						
Wood Burning Appliance						
Refrigeration Unit/Furnace						
Evaporative Cooler						
Gas Pipe						
Gas Test						
FINAL INSPECTION						
					MOBILE HOME	
					TYPE OF INSPECTION	APPROVED BY
					DATE	
					Permit Foundation/Tie-down	
					Flood Prone-Elevation	
					Forms & Setbacks	
					Piers/Anchors	
					Steps/Landings	
					Elec. Service _____ Amps	
					Grounding Electrode	
					Wiring To Well	
					Continuity Test	
					Conduit/Feeders	
					Gas Test – Exterior	
					Gas Test Monometer	
					Sewer	
					Waste Piping	
					Septic System	
					Interior Water Pipe	
					Water Service	
					Well Seal Pad	
					FINAL INSPECTION	
					Certificate of Occupancy	
					OTHER DEPARTMENT CONDITIONS	
					GRADING	FINAL
					G.V. #	
					G.P. #	
					FIRE DEPARTMENT	
					ENVIRONMENTAL HEALTH	
					ROADS	
					C.U.P. #	
					S.P.R. #	
					ALL CONDITIONS MET FOR PROJECT (BUILDING INSPECTOR INITIAL)	

2220 TULARE ST., SIXTH FLOOR
FRESNO, CA 93721
LOCATION:
SOUTHWEST CORNER OF TULARE &
"M" STREET, STREET LEVEL

DEVELOPMENT SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS AND PLANNING

24 HOUR INSPECTION REQUEST LINE:
(559) 600-4131
LOCAL: (559) 600-4540
TOLL FREE: (800) 742-1011

TEST HOLE APPLICATION

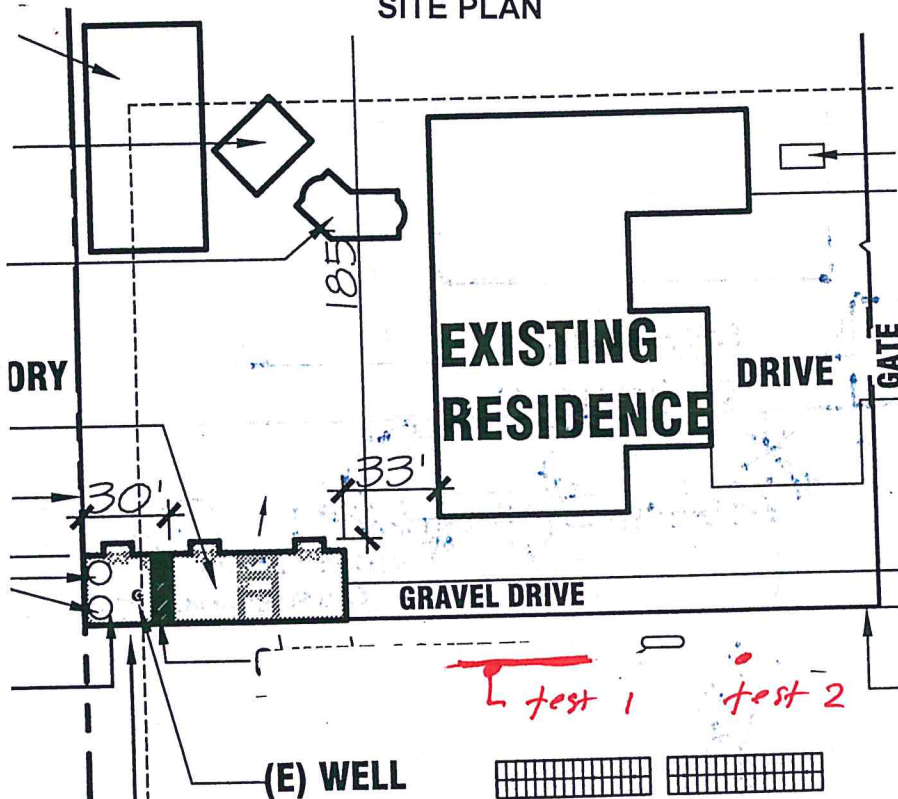
VICINITY MAP

Lot # _____
Tract # _____

NOTE: Show major roads (public and private) and directions to get to the parcel.

ADDRESS: _____
PLAN CHECK #: _____

SITE PLAN



NOTE: Show the entire parcel, with existing and proposed structures and the test hole location.

PROJECT ADDRESS: 15319 Nielson APN: 020-120-035
APPLICANT: Jerry Kutunian MAIL ADDRESS: 470 W BLUFF FRESNO 93711
CITY: FRESNO STATE: CA ZIP: 93741 PHONE: 3071797

TEST HOLE RESULTS

Leach Factor 25 Sq. Ft./100 gal. ☐ Engineered System Required Number of test hole inspected 1

Comments

ARMANDO URIBE

6/13/18

On Site Inspection By:

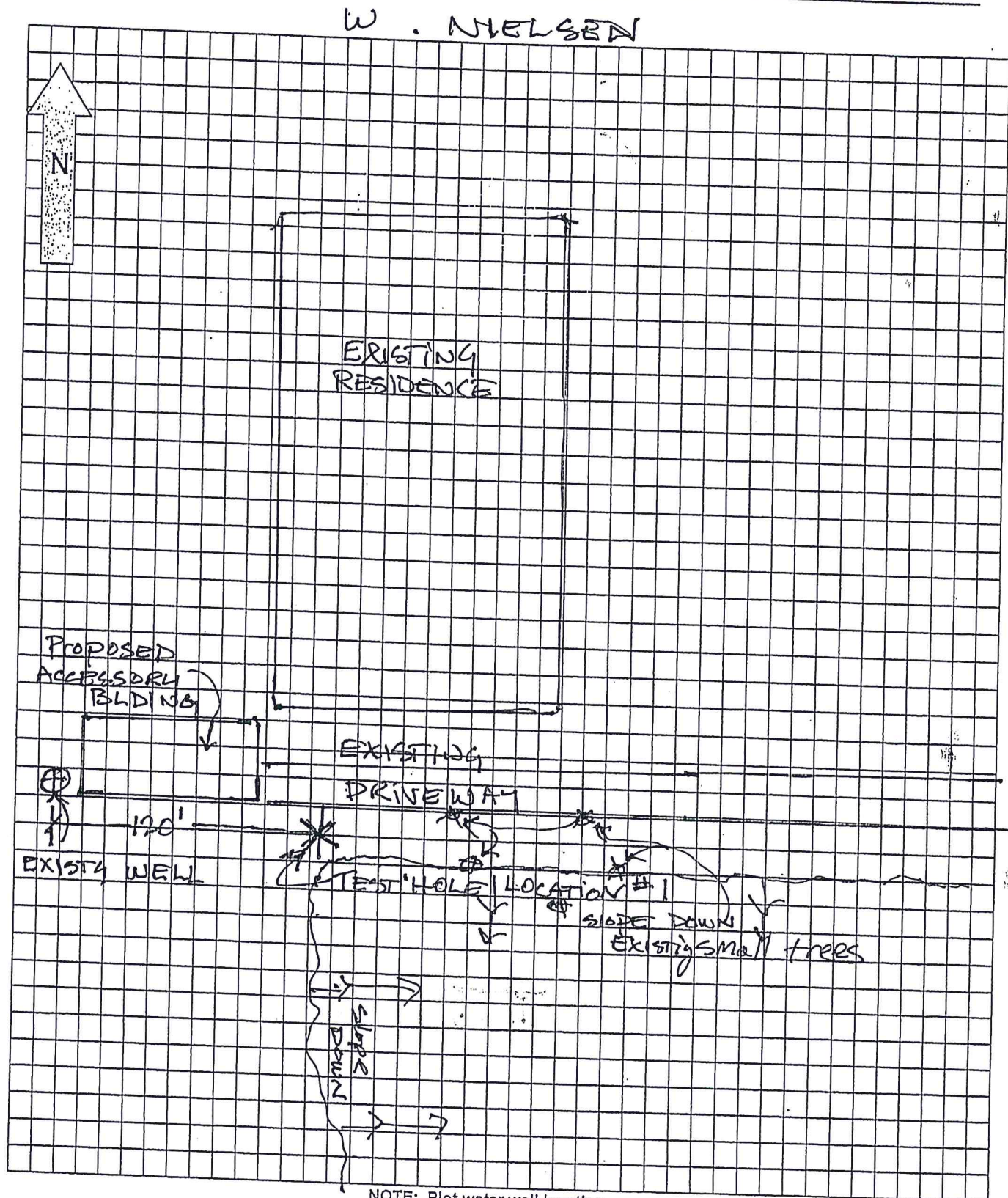
Date:

SOIL CONDITIONS - FINE SAND, TEST HOLE DUG APPROX 10' FROM
SLOPE, LEECH LINE RUN PARALLEL TO SLOPE EDGE WILL

HAVE 23' FROM CENTER TRENCH TO SLOPE LINE (Break thru)



Job Address: 15319 W NIELSEN



NOTE: Plot water well location

TEST HOLE PLOT.

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS			
CONTRACTOR: <u>KUTUMIAN Construction Jerry</u>			
TANK TYPE:	TANK SIZE:	SEEPAGE PITS:	LEACHING FIELD
() CONCRETE	DIA. 1 ST COMP _____	NUMBER _____	TOTAL LENGTH _____ FT.
() METAL	2 ND COMP _____	DIAMETER _____ FT.	TOTAL WIDTH _____ IN.
() OTHER	3 RD COMP _____	DEPTH _____ FT.	NO. OF LINES _____
	LIQUID DEPTH _____	DIST. TO WELL _____ FT.	ROCK UNDER PIPE _____ IN.
			DIST. TO WELL _____ FT.
TOTAL LIQUID: _____			
CAPACITY _____ GAL.	SQUARE FEET _____	SQUARE FEET _____	
MANUFACTURER: _____			



CONSTRUCTION PERMIT

COUNTY OF FRESNO
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS ☒ YES ☐ NO
PHONE NUMBERS
24-HR REQUEST LINE
600-4131
LOCAL: 600-4560
TOLL FREE: 800-742-1011
FAX: 600-4201

Ref #:17-0735

Project Address		Cross Street	Project Description	
15319 W NIELSEN AVE Kerman CA 93630		DEL NORTE	SFR ACCESSORY BUILDING	
Permit #: 17-107153-FC		Issued on: September 25, 2018	APN: 02012003S	
Owner: GILL JAGROOP S TRUSTEE		Applicant: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*		Contractor: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*
Address: P O BOX 680 Kerman CA 93630		Address: 470 W BLUFF AVE FRESNO CA 93711		Address: 470 W BLUFF AVE FRESNO CA 93711
Phone: : (559)-906-6065		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721		Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721
		License #: 393364		License #: 393364
Approvals		Approved By		Date
Application Requirements		Permit Application Reviewer		September 25, 2017
Plan Review		Carsey, Rod		September 25, 2018
Zoning Review		Nahigian, Richard		June 12, 2018
Zoning District	Required Setbacks:	Front		Side
AL20		Min	Max	Interior
		35		20
PROJECT INFORMATION				
Area 1 (sf): 864		Area 2 (sf): 1152		
Area 3 (sf): 264		Big Dry Creek Basin: No		
Consolidated Permit?: Yes		Construction Type 1: V-N		
Construction Type 2: V-N		Construction Type 3: V-N		
Contractor License Class: B		FMFCD Rural Streams: No		
Grading Permit #: GV# 14280		Grading Permit Issue Date: Sep 25, 2018		
MWELO Occupancy Pending: NO		Occupancy 1: Dwelling		
Occupancy 2: Garage (Private)		Occupancy 3: Patio (Residential)		
Occupancy Pending RTMF: No		Roof Classification: Class C or better		
School District Receipt #: 711922		School Fees Due?: Yes 6-7-18		
Soil Bearing Capacity(psf): 1000		Submittal Method: Walk-in		
Valuation of Construction: 133656		WMP Occupancy Pending: YES SEP 10-2019		
MECHANICAL				
ELECTRICAL				
81 Wiring Outlets		1 Special Use Outlets		1 Service/sub-panel 0 - 200 amps
PLUMBING				
150 On-site Sewer Piping (ft)		3 Int. Water Piping (# fixtures served)		1 Water Closets
1 Lavs		1 Bathtubs or Showers		20 On-site Water Piping (ft)
LICENSED CONTRACTOR'S DECLARATION				
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect.Lic.				
Number 393364		Class B Contractor KUTUMIAN CONSTRUCTION		
WORKER'S COMPENSATION DECLARATION				
FOR OWNER BUILDER SEE FORM F174 ATTACHE				
I hereby affirm: under penalty of perjury on of the following declarations.				
<input checked="" type="checkbox"/> I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.				
I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued.				
my workers' compensation insurance carrier and policy number:				
Carrier: ON FIRE Policy # (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)				
<input type="checkbox"/> I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.				
Applicant KUTUMIAN CONSTRUCTION				
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.				
CONSTRUCTION LENDING AGENCY				
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).				
Lenders Name		Address		
City		State		
I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.				
Applicant Or Agent		Date		
		Sept 25 2018		
THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.				

15319 W NIELSEN AVE Kerman CA 93630

POST THIS CARD IN A CONSPICUOUS PLACE
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEVELOPMENT SERVICES DIVISION
2220 Tulare Street, Suite A, Fresno, CA 93721
Office: (559) 600-4560 or 1 (800) 742-1011 FAX: (559) 600-4201



24 HOUR INSPECTION REQUEST
(559) 600-4131
Before 2:30 p.m. for next-day inspection
This is your record of field inspection

JOB ADDRESS: 15319 W. NIELSEN

AMANDA NUMBER: 17-107153

PERMIT NUMBER: 17-107153

BUILDING			CORRECTIONS		REMARKS
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Flood Prone-Elevation					CA BY CONTRACTOR 11-5-18
Foundation: Forms & Setback	See 18-104796		Ran Johney	10/12/18	
Foundation / Patio Piers			Chitewine	10-19-18	CA BY CONTRACTOR 11-29-18
Floor Girders & Joists			TVA	11-6-18	
Shear Panel Nailing	RDCEN	9-26-18	Chitewine	11-27-18	
Pre-Roof			TVA	5-23-19	
Roof Sheathing		9-26-18			
Roof Batten/Felt	RDCEN	9-26-18			
Roof Covering		10/12/18	Ran Johney		
Exterior Lath/Siding		10/12/18	Ran Johney		
Fireplace Damper		11-6-18			
Fireplace: Roof					
Frame	Ran Johney	10/12/18			
Insulation					CASH DEPOSIT
Shower Wall Over Tub					Temporary Power
Shower Pan & Walls					Occupancy
Bond Beam & Steel					AMOUNT
					APPROVED TO POST
					BY:
					DATE
					APPROVED FOR REFUND
					BY:
					DATE
					REFUNDED
					BY:
					DATE
FINAL INSPECTION		9/10/19			
CERTIFICATE OF OCCUPANCY					
ELECTRICAL			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Conduit: PVC/Galv. Interior		3-2-19	Ran Johney	10/12/18	
Conduit: PVC/Galv. Exterior			TVA	5-23-19	
Rough Wiring		11-8-18	Ran Johney		
Elec. Main Panel	200 Amps		Ran Johney		
Temporary Meter					
Temporary Power Pole					
Ufer Location	Driven Ground X2	11-6-18			
Water Pipe Bond Location					
Wiring To Well					
Pool Equipment Bonding					
FINAL INSPECTION		9/10/19			
PLUMBING			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Ground Plumbing: Soil	gas line	3-2-19	Ran Johney	10/12/18	
Water Pipe - Under Floor					
Water Pipe - Above Floor		11-8-18	Ran Johney		
Vents & Top Out		10/12/18	Ran Johney		
Gas Pipe - Interior	NA				
Gas Test - Interior	NA				
Gas Test - Exterior		3-2-19			
Second Floor Tub Test					
Septic System	SEE PERMIT #	18-105335			
House Sewer	SDO	7-26-18			
Water Service PVC/Galv.					
Well Seal Pad					
FINAL INSPECTION		5-23-19			
MECHANICAL			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Ducts Underfloor		11-8-18	Ran Johney	10/12/18	
Ducts Overhead		10/12/18	TVA	5-23-19	
Wood Burning Appliance					
Refrigeration Unit/Furnace	CPDR3R	5-23-19			
Evaporative Cooler	SDA Breaks	5-23-19			
Gas Pipe					
Gas Test					
FINAL INSPECTION	PCN	9/10/19			
					MOBILE HOME
					TYPE OF INSPECTION
					APPROVED BY
					DATE
					Perm Foundation/Tie-down
					Flood Prone-Elevation
					Forms & Setbacks
					Piers/Anchors
					Steps/Landings
					Elec. Service Amps
					Grounding Electrode
					Wiring To Well
					Continuity Test
					Conduit/Feeders
					Gas Test - Exterior
					Gas Test Monometer
					Sewer
					Waste Piping
					Septic System
					Interior Water Pipe
					Water Service
					Well Seal Pad
					FINAL INSPECTION
					Certificate of Occupancy
					OTHER DEPARTMENT CONDITIONS
					GRADING
					FINAL
					G.V. #
					G.P. #
					FIRE DEPARTMENT
					5/50/19
					ENVIRONMENTAL HEALTH
					ROADS
					C.U.P. #
					S.P.R. #
					ALL CONDITIONS MET FOR PROJECT
					(BUILDING INSPECTOR INITIAL)

ADDRESS

PLEASE USE BLACK INK
THIS FORM IS TO BE MICROFILMED
COUNTY OF FRESNO
DEVELOPMENT SERVICES

DEVELOPMENT SERVICES DIVISION

2220 TULARE ST., SIXTH FLOOR
FRESNO, CA 93721
LOCATION
SOUTHWEST CORNER OF TULARE
"M" STREET - STREET LEVEL

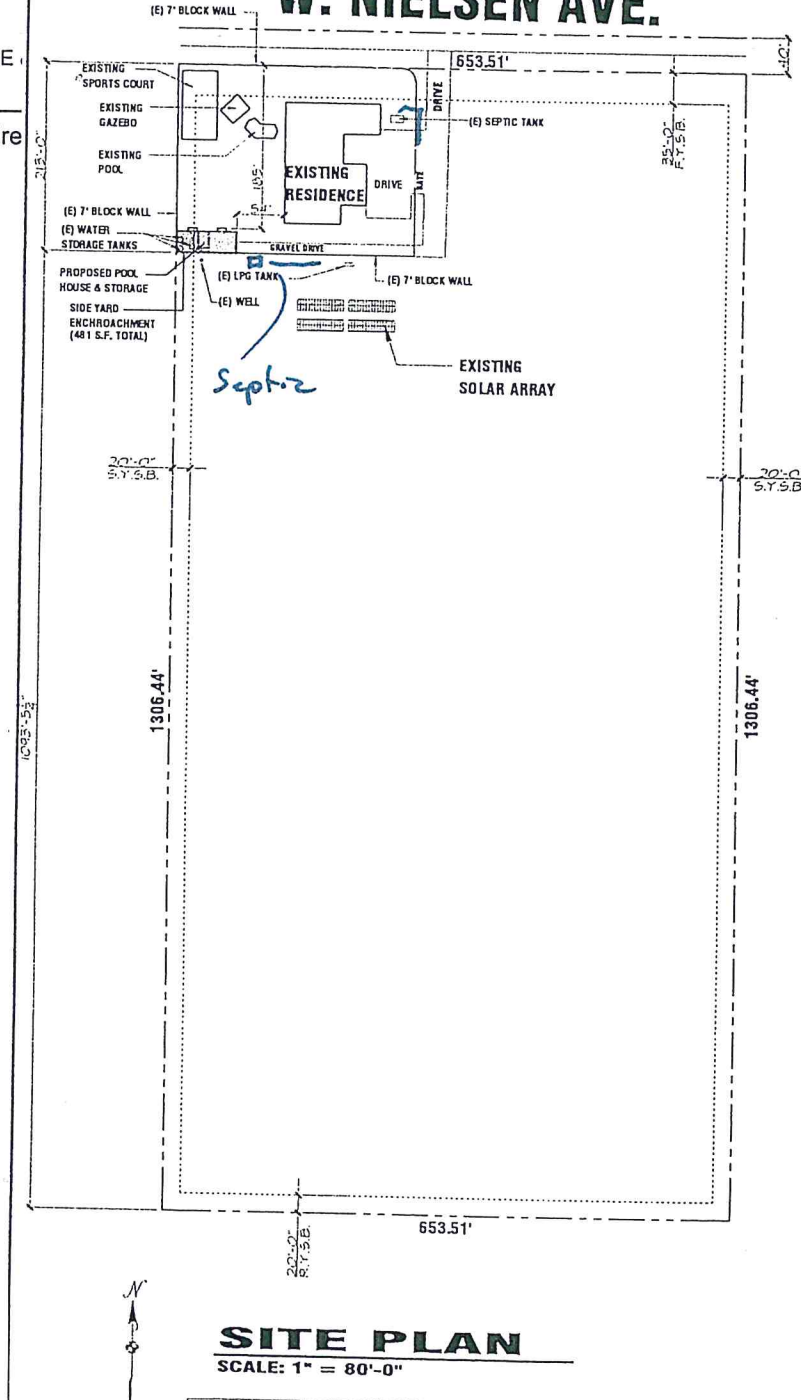
24 HOUR INSPECTION REQUEST

SERVICE

(800) 742-1011

W. NIELSEN AVE.

NOTE: Please show the entire



SITE PLAN
SCALE: 1" = 80'-0"

NOTE: All setbacks are measured from the property lines unless otherwise indicated.

APN: 020-120-039

Approved By: [Signature]

Date: 6/12/18

Bldg. Permit # 17-107153

PROJECT ADDRESS: 15319 W. Nielsen

OWNER: Jagdeep Gill

MAIL ADDRESS: 15319 W. Nielsen

CITY: Kerman

STATE: CA

ZIP: 93630

TEL NO: (559) 906-6065

SEWAGE DISPOSAL SPECIFICATIONS:

() Community Sewer

() Engineered System

(X) Septic

TYPE OF USE TO BE SERVED Pool/House

NO. BEDROOMS 0

OR NO. FIXTURE UNITS 7

MIN. SEPTIC TANK 1850 GAL

LEACHING FACTOR 25 SQ. FT. /100 GAL

NO. TEST HOLES INSPECTED 1

WATER WELL SPECIFICATIONS

WELL LOG NO. _____

DATE: _____

GPM: _____

COMMENTS:

Not subject to LAMP requirements

ON SITE INSPECTION BY: _____

DATE: _____

This plot plan accurately shows all existing and proposed structures buildings and mobile units on the property and their relationship to property lines and each other. I hereby state that the information above is correct. I understand that a permit must be obtained before any construction is started and that an inspection of all work is required, including underground work prior to backfilling.

Signature [Signature]

Date June 12 18



CONSTRUCTION PERMIT
COUNTY OF FRESNO
DEVELOPMENT SERVICES DIVISION
MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES NO

PHONE NUMBERS
24-HR REQUEST LINE
600-4131
LOCAL: 600-4560
TOLL FREE: 800-742-1011
FAX: 600-4201

Ref #:17-0117

Project Address 15319 W NIELSEN AVE Kerman CA 93630		Cross Street DEL NORTE	Project Description SOLAR GROUND MOUNT FOR SFR	
Permit #: 17-100920-FC		Issued on:	APN: 02012003S	
Owner: GILL JAGROOP S TRUSTEE Address: P O BOX 680 Kerman CA 93630 Phone: : (559)-906-6065		Applicant: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN* Address: 470 W BLUFF AVE FRESNO CA 93711 Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721 License #: 393364		Contractor: KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN* Address: 470 W BLUFF AVE FRESNO CA 93711 Phone: Work: (559)-432-3145 Cellular: (559)-307-1797 Fax: (559)-432-4721 License #: 393364
Approvals		Approved By		Date
Plan Review		Carsey, Rod		July 06, 2017
Zoning Review		Mtunga, Tawanda		February 13, 2017
Zoning District AE20	Required Setbacks:	Front Min Max 35		Side Interior Street 20
				Rear Min 20
PROJECT INFORMATION				
Contractor License Class: B		Estimated Construction Value: 10000		
FMFCD Rural Streams: No		Occupancy Pending RTMF: No		
Roof Classification: Class C or better		Soil Bearing Capacity(psf): 1000		
MECHANICAL				
ELECTRICAL				
1 Special Use Outlets		3 Service/sub-panel 0 - 200 amps		
PLUMBING				
LICENSED CONTRACTOR'S DECLARATION				
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect.Lic.				
Number 393364		Class B		ContractorKUTUMIAN CONSTRUCTION
FOR OWNER BUILDER SEE FORM F174 ATTACHE				
WORKER'S COMPENSATION DECLARATION				
I hereby affirm under penalty of perjury on of the following declarations:				
<input type="checkbox"/> I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor code, for the performance of the work for which this permit is issued.				
<input checked="" type="checkbox"/> I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued.				
My workers' compensation insurance carrier and policy number :				
Carrier		Policy # (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)		
<input type="checkbox"/> I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.				
Applicant KUTUMIAN CONSTRUCTION				
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.				
CONSTRUCTION LENDING AGENCY				
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C).				
Lenders Name		Address		
City		State		
		I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes.		
		Applicant Or Agent		
		Date July 6 17		
THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.				

15319 W NIELSEN AVE Kerman CA 93630

POST THIS CARD IN A CONSPICUOUS PLACE
DEPARTMENT OF PUBLIC WORKS AND PLANNING
DEVELOPMENT SERVICES DIVISION
2220 Tulare Street, Suite A, Fresno, CA 93721
Office: (559) 600-4560 or 1 (800) 742-1011 FAX: (559) 600-4201



24 HOUR INSPECTION REQUEST
(559) 600-4131
Before 2:30 p.m. for next-day inspection
This is your record of field inspection

JOB ADDRESS: 15319 HIELSEN PERMIT NUMBER: 17-100920

BUILDING			CORRECTIONS		REMARKS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE		
Flood Prone-Elevation						
Foundation: Forms & Setback <u>piles</u>	<u>Reu</u>	<u>7/10/17</u>				
Foundation / Patio Piers						
Floor Girders & Joists						
Shear Panel Nailing						
Pre-Roof						
Roof Sheathing						
Roof Batten/Felt						
Roof Covering						
Exterior Lath/Siding						
Fireplace Damper						
Fireplace: Roof						
Frame	<u>Reu</u>	<u>7/10/17</u>				
Insulation					CASH DEPOSIT	AMOUNT
Shower Wall Over Tub					Temporary Power	
Shower Pan & Walls					Occupancy	
Bond Beam & Steel					APPROVED TO POST	DATE
					BY:	
Pool Steel, Bonding & Setback					APPROVED FOR REFUND	DATE
Pre-Deck					BY:	
Pool Fencing & Gates					REFUNDED	DATE
					BY:	
FINAL INSPECTION	<u>Reu</u>	<u>7/10/17</u>				
CERTIFICATE OF OCCUPANCY						

ELECTRICAL			CORRECTIONS				
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE			
Conduit: PVC/Galv. Interior							
Conduit: PVC/Galv. Exterior <u>BORED</u>	<u>Reu</u>	<u>7/10/17</u>					
Rough Wiring <u>LOA x3</u>							
Elec. Main Panel <u>200</u> Amps							
Temporary Meter <u>LINE TAP</u>							
Temporary Power Pole							
<u>Offer</u> Location/Driven Ground	<u>Reu</u>	<u>7/10/17</u>					
Water Pipe Bond Location <u>PEX</u>							
Wiring To Well							
Pool Equipment Bonding							
FINAL INSPECTION <u>SOLAR</u>	<u>Reu</u>	<u>7/10/17</u>					

PLUMBING			CORRECTIONS		MOBILE HOME		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	TYPE OF INSPECTION	APPROVED BY	DATE
Ground Plumbing: Soil					Perm Foundation/Tie-down		
Water Pipe – Under Floor					Flood Prone-Elevation		
Water Pipe – Above Floor					Forms & Setbacks		
Vents & Top Out					Piers/Anchors		
Gas Pipe – Interior					Steps/Landings		
Gas Test – Interior							
Gas Test – Exterior					Elec. Service _____ Amps		
Second Floor Tub Test					Grounding Electrode		
Septic System					Wiring To Well		
House Sewer					Continuity Test		
Water Service PVC/Galv.					Conduit/Feeders		
Well Seal Pad					Gas Test – Exterior		
FINAL INSPECTION					Gas Test Monometer		

MECHANICAL			CORRECTIONS		OTHER DEPARTMENT CONDITIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE			
Ducts Underfloor					GRADING	FINAL	
Ducts Overhead					G.V. #		
Wood Burning Appliance					G.P. #		
Refrigeration Unit/Furnace							
Evaporative Cooler							
Gas Pipe							
Gas Test							
FINAL INSPECTION							

FIRE DEPARTMENT		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		

ENVIRONMENTAL HEALTH		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		

ROADS		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		

C.U.P. #		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		

S.P.R. #		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		

ALL CONDITIONS MET FOR PROJECT (BUILDING INSPECTOR INITIAL)		
TYPE OF INSPECTION	APPROVED BY	DATE
Ducts Underfloor		
Ducts Overhead		
Wood Burning Appliance		
Refrigeration Unit/Furnace		
Evaporative Cooler		
Gas Pipe		
Gas Test		
FINAL INSPECTION		



CONSTRUCTION PERMIT

County of Fresno

DEVELOPMENT SERVICES DIVISION

MAILING ADDRESS: 2220 TULARE STREET, 6th FLOOR FRESNO, CA 93721
OFFICE LOCATION: SOUTHWEST CORNER OF TULARE
& 'M' STREETS, SUITE A

ACTIVE PERMITS YES
PHONE NUMBERS
24-HR REQUEST LINE
262-4131
LOCAL: 262-4469
TOLL FREE: 800-742-1011
FAX: 262-4893

15319 W NIELSEN AVE KERMAN

Project Address 15319 W NIELSEN AVE KERMAN CA 93630	Cross Street DEL NORTE AVENUE	Project Description: IN-GROUND SWIMMING POOL W/O BOARD, HEAT W/ SPA & NATURAL GAS FIRE PIT
Permit #: 07-106363-FC Issued on: November 15, 2007		APN: 02012003S
Owner: GILL JAGROOP S & RUPINDER K Address: P O BOX 680 KERMAN CA 93630 Phone: (559) 906-6065	Applicant: BLUE OASIS POOLS Address: 4957 E LANSING WAY FRESNO CA Phone: (559) 294-9800 St. Lic.: 833390	Contractor: BLUE OASIS POOLS Address: 4957 E LANSING WAY FRESNO CA Phone: (559) 294-9800 St. Lic.: 833390

APPROVALS	Approved By	Date
Application Requirements	Tolle, Eric	November 15, 2007
Issuance Review	Tolle, Eric	November 15, 2007

Zoning District AE20	Required Setbacks:	Front	Side	Rear		
		Min	Max	Interior	Street	Min
		40		5		5

PROJECT INFORMATION			
Contractor License #	833390	Contractor License Class	C53
Square or Lineal Feet	480	Swimming Pool	Inground Pool/Spa Combination
Gas Heated Pool?	No	Valuation of Construction	17,280

MECHANICAL			
ELECTRICAL			
PLUMBING			
1	On-site Gas Piping (ft)		

LICENSED CONTRACTOR'S DECLARATION
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code, and my license is in full force and effect. Lic. Number 833390 Class C53 Contractor Blue Oasis

OWNER'S BUILDER DECLARATION
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5 Business and Professions Code). Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).
☒ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).
☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).
☐ I am exempt under Sec. _____ B&PC for this reason.
Owner _____ Date _____

WORKER'S COMPENSATION DECLARATION
I hereby affirm under penalty of perjury on of the following declarations:
☐ I have and will maintain a certificate on consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number: Exp: 7/1/08
Carrier _____ Policy # _____ (This section does not need to be completed if the permit is for one hundred dollars (\$100) or less.)
☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California and agree that if I should become subject to the workers compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.
Applicant X Torres
WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING AGENCY I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Div. C). Lenders Name _____ Address _____ City _____ State _____	I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this county to enter upon the above-mentioned property for inspection purposes. Applicant Or Agent <u>X Torres</u> Date <u>11/15/07</u>
--	--

THIS PERMIT SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE WORK IS NOT COMENCED OR IF NO INSPECTIONS ARE COMPLETED WITHIN 180 DAYS.

INSPECTION RECORD

JOB ADDRESS 15319 Nielsen
(CORRECTION NOTICE)

PERMIT NUMBER 44-067
WITH ADJACENT INTERESTS

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION) PERMIT NUMBER 44
BUILDING CORRECTION

BUILDING					
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
Flood Prone-Elevation					
Foundation: Forms & Setback					
Foundation / Patio Piers					
Floor Girders & Joists					
Shear Panel Nailing					
Pre-Roof					
Roof Sheathing					
Roof Batten/Felt					
Roof Covering					
Exterior Lath/Siding					
Fireplace Damper					
Fireplace: Roof					
Frame					
Insulation					
Showers Wall Over Tub					
Showers Pan & Walls					
Bond Beam & Steel					
Pool Steel, Bonding & Setback	A.B.	11-27-09			
Pre-Deck	J.P.	11-27-09			
Pool Fencing and Gates	J.P.	1-20-09			
PIT MUST BE NATURAL GAS					
FINAL INSPECTION	GAS	J.P.	1-20-09		
CERTIFICATE OF OCCUPANCY					
ELECTRICAL					
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior					
Conduit: PVC/Galv. Exterior		A.P.	11-27-09		
Rough Wiring		J.P.	1-20-09		
Elec. Main Panel	100 Amps				
Temporary Meter					
Temporary Power Pole					
Ufer Location/Driven Ground					
Water Pipe Bond Location					
Wiring to Well					
Pool Equipment Bonding		J.B.	1-20-09		
FINAL INSPECTION					
PLUMBING					
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
Ground Plumbing: Soil					
Water Pipe - Under Floor					
Water Pipe - Above Floor					
Vents & Top Out					
Gas Pipe - Interior					
Gas Test - Interior					
Gas Test - Exterior	* H. Mowat	4-25-08			
Second Floor Tub Test					
Septic System					
House Sewer					
Water Service PVC/Galv.					
Well Seal Pad					
FINAL INSPECTION	O.P.	1-20-09			
Mechanical					
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
Ducts Underfloor					
Ducts Overhead					
Wood Burning Appliance					
Refrigeration Unit/Furnace					
Evaporative Cooler					
Gas Pipe	H. Mowat	2-8-08			
Gas Test					
FINAL INSPECTION					
CORRECTIONS					
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
CASH DEPOSIT Temporary Power Occupancy					
APPROVED TO POST BY:					
APPROVED FOR REFUND BY:					
REFUNDED BY:					
HAZARDOUS MATERIAL STORAGE FOR NON-RESIDENTIAL CONSTRUCTION					
certify that the occupants of this building (will/will not) need to comply with the applicable requirements of Section 25505, 25533, & 25534 of the Health and Safety Code and the requirements for a permit for construction or modification by the Air Pollution District.					
Form 35A Rev 5/05 Applicant _____					

APPENDIX D

HISTORICAL AERIAL PHOTOGRAPHS



Historical Aerial Photo Report | 2024

Order Number: 94363

Report Generated: 01/24/2024

Project Name: Orchards at Gill Estates

Project Number: 240050

240050 Orchards at Gill Estates

W Nielsen Ave & CA-145

Kerman, CA, 93630

Contact us at:

(866) 211-2028

envirositecorp.com

Envirosite's Historical Aerial Photo Report is designed to assist in evaluating a subject property resulting from past activities. EnviroSite's Historical Aerial Photo Report includes a search of available historical aerial photographs, dating back to the 1930s, or earliest available photographs.

ENVIROSITE SEARCHED SOURCES

SUBJECT PROPERTY:

240050 Orchards at Gill Estates
W Nielsen Ave & CA-145
Kerman, CA, 93630

<u>YEAR:</u>	<u>SCALE:</u>	<u>SOURCE:</u>
1946	1" = 500'	U.S.G.S
1954	1" = 1,000'	U.S.G.S
1957	1" = 500'	U.S.D.A
1960	1" = 1,000'	U.S.G.S
1962	1" = 500'	U.S.G.S
1965	1" = 500'	U.S.D.A
1966	1" = 1,000'	U.S.G.S
1968	1" = 1,000'	U.S.G.S
1971	1" = 1,000'	U.S.G.S
1975	1" = 1,000'	U.S.G.S
1978	1" = 1,000'	U.S.G.S
1981	1" = 1,000'	NHAP
1982	1" = 1,000'	U.S.G.S
1984	1" = 1,000'	U.S.G.S
1985	1" = 1,000'	U.S.G.S
1987	1" = 500'	U.S.D.A
1993	1" = 1,000'	NAPP
1995	1" = 1,000'	U.S.G.S
1998	1" = 500'	DOQ
2005	1" = 500'	NAIP
2009	1" = 500'	NAIP
2010	1" = 500'	NAIP
2012	1" = 500'	NAIP
2014	1" = 500'	NAIP
2016	1" = 500'	NAIP
2018	1" = 500'	NAIP
2020	1" = 500'	NAIP
2022	1" = 500'	NAIP

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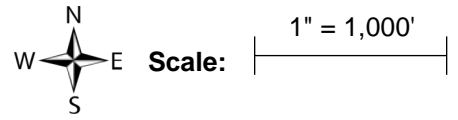
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1946



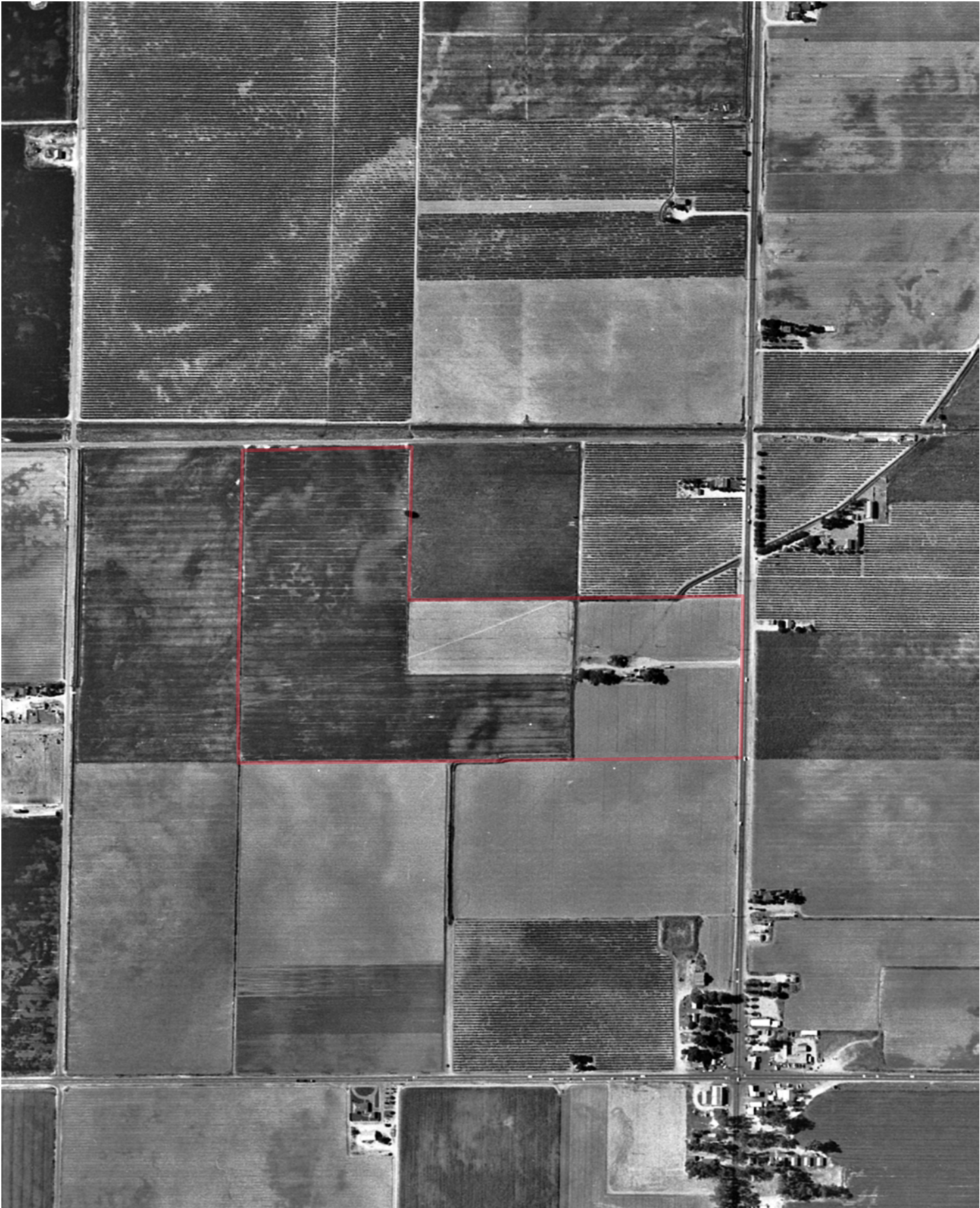
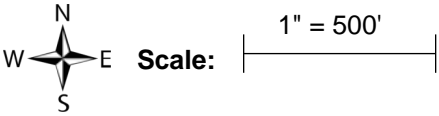
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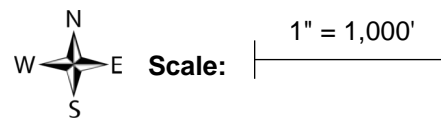
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1954



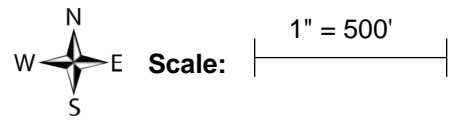
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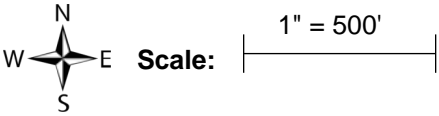
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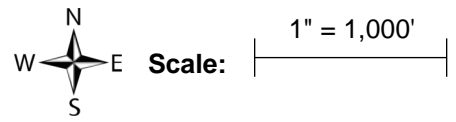
FLIGHT YEAR:
1962



FLIGHT YEAR:
1965



FLIGHT YEAR:
1966

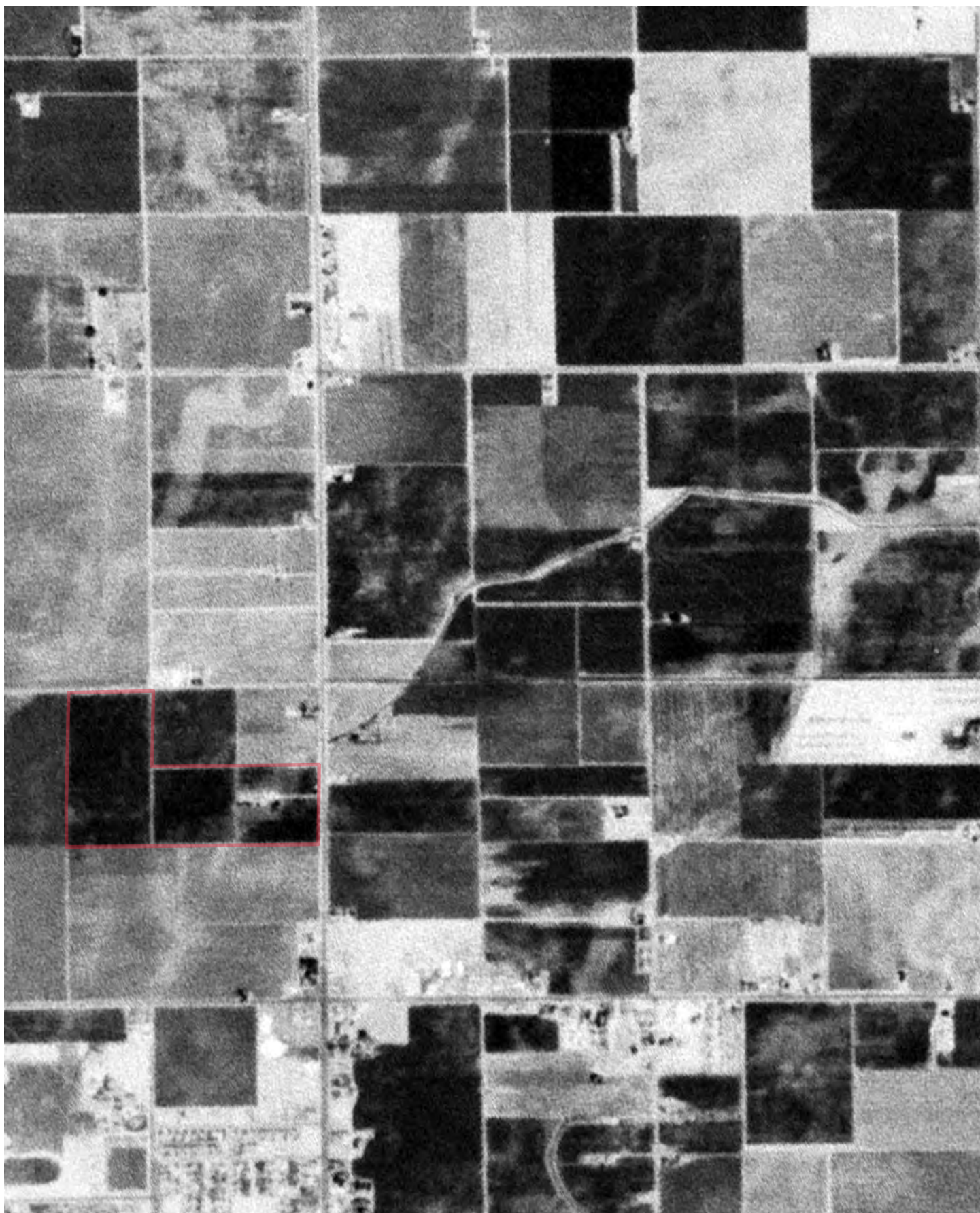


FLIGHT YEAR:
1968

Subject Cannot Be Centered



Scale: 1" = 1,000'



FLIGHT YEAR:
1971



Scale: 1" = 1,000'



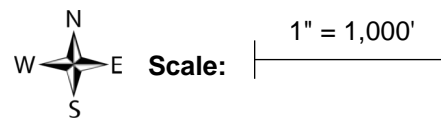
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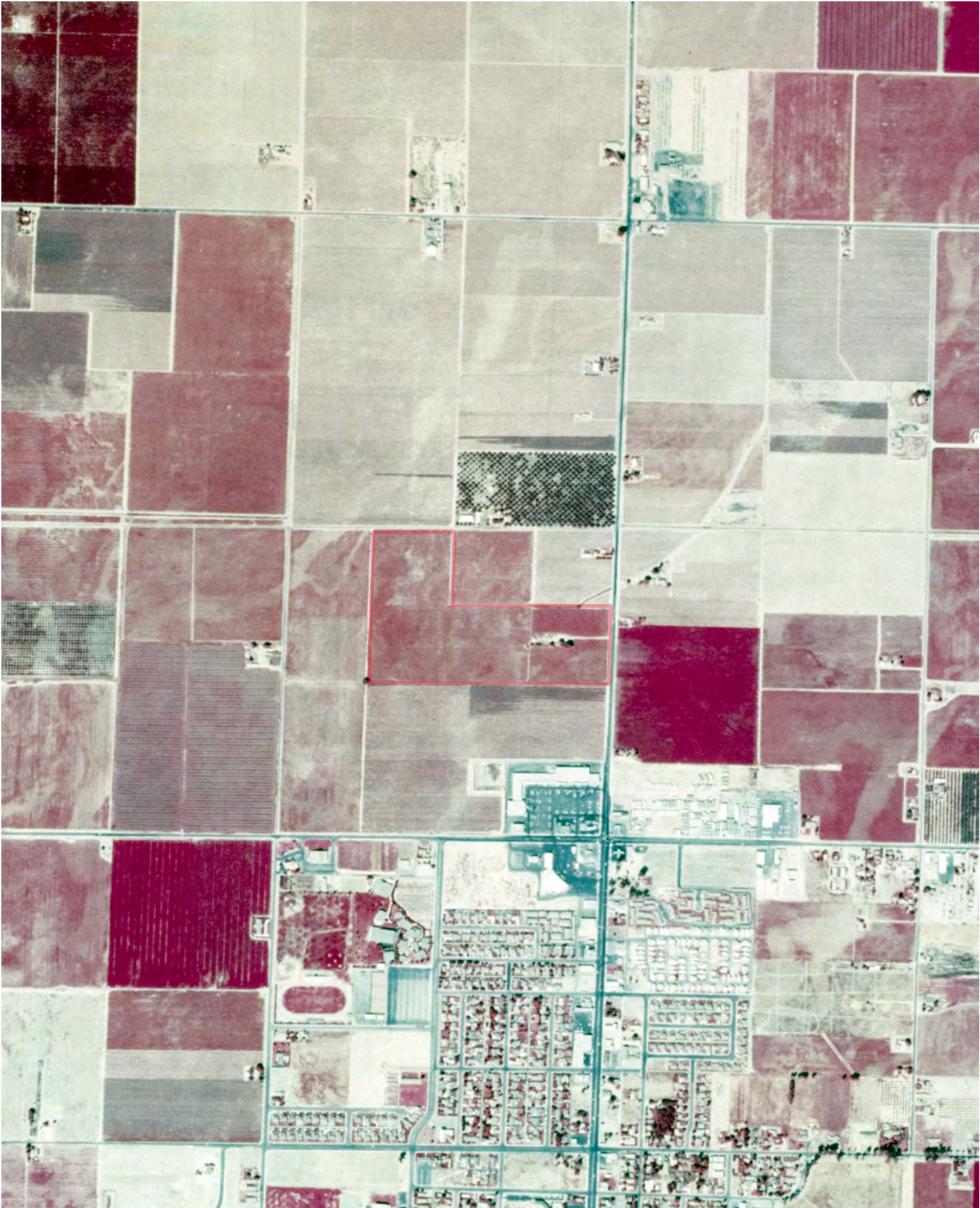
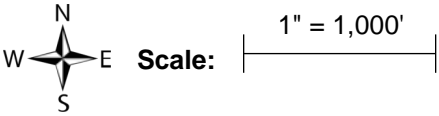
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FLIGHT YEAR:
1978



FLIGHT YEAR:
1981

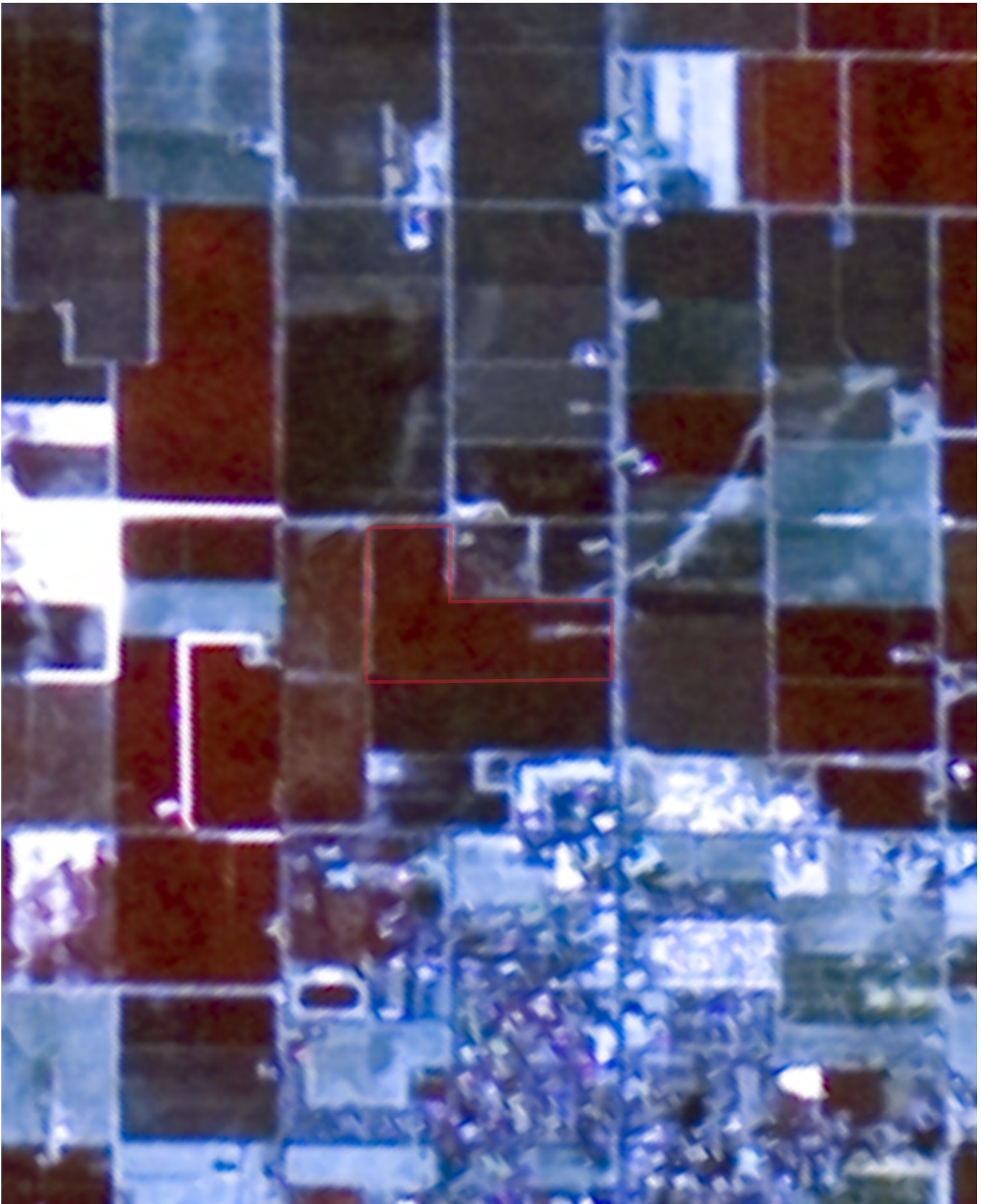


FLIGHT YEAR:
1982

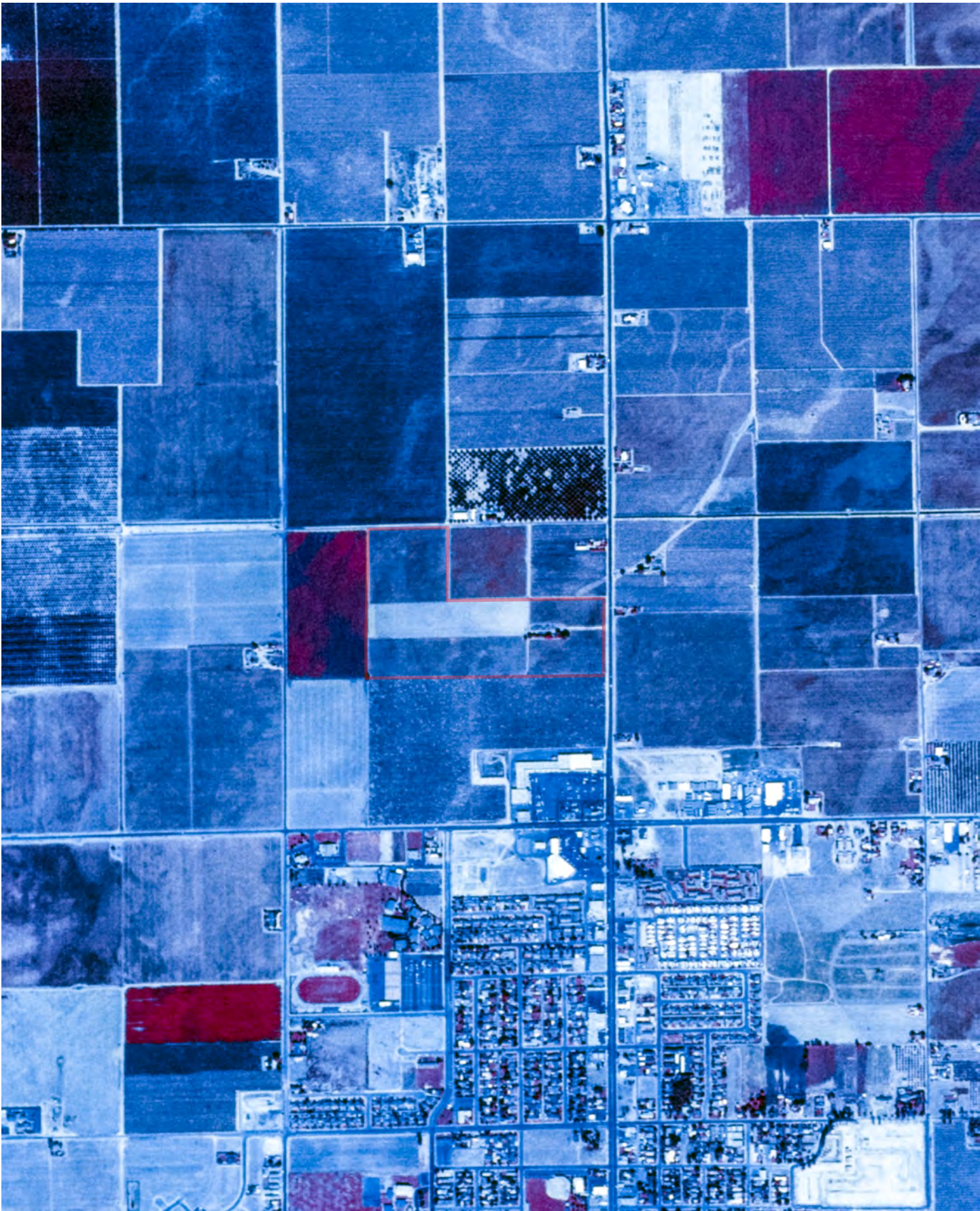
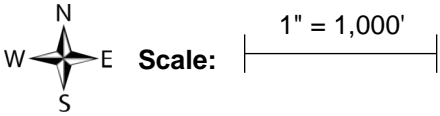
Best Quality Available



Scale: 1" = 1,000'



FLIGHT YEAR:
1984



FLIGHT YEAR:
1985

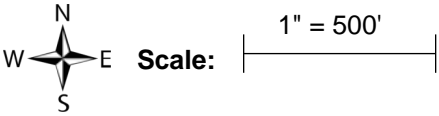
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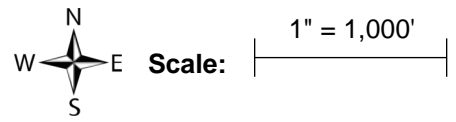
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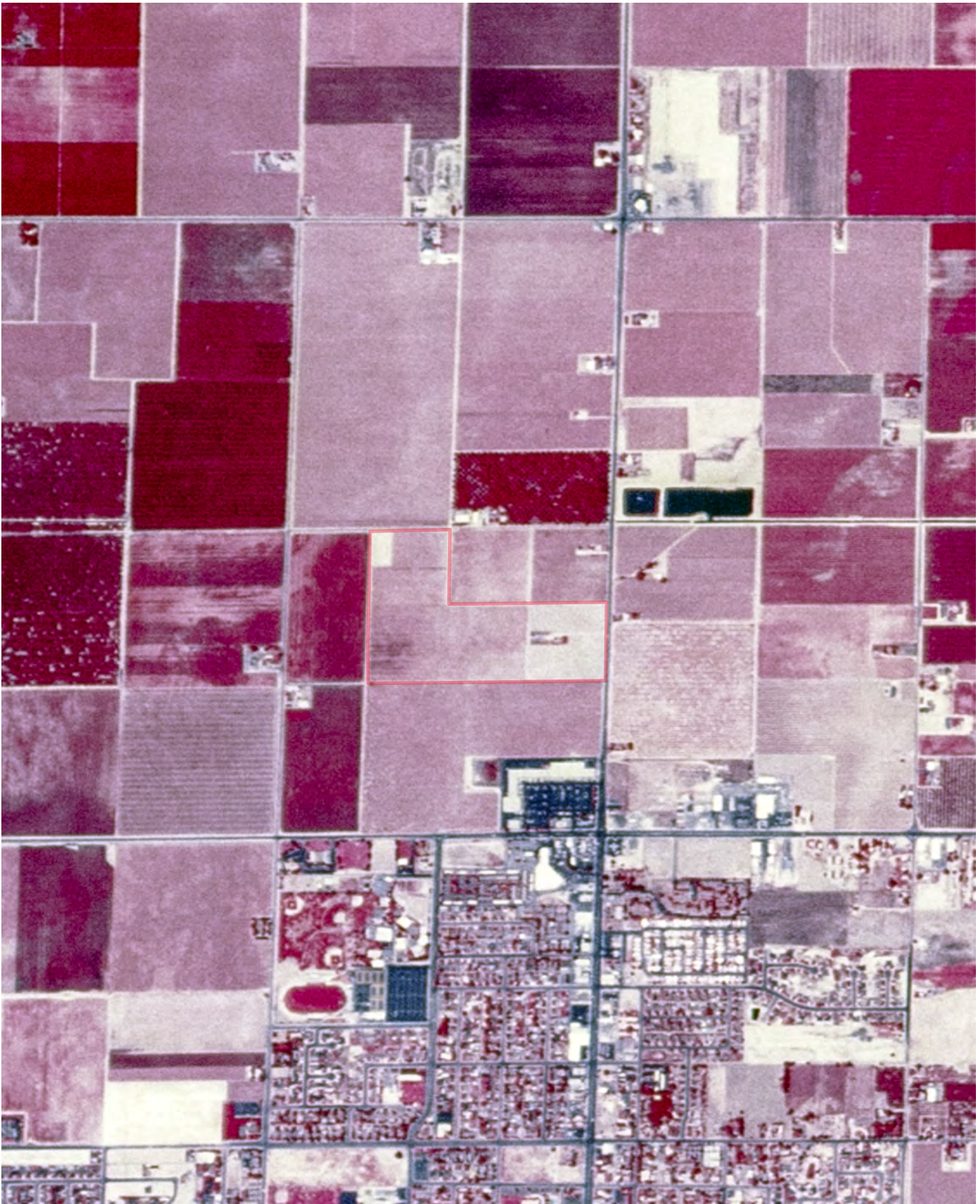
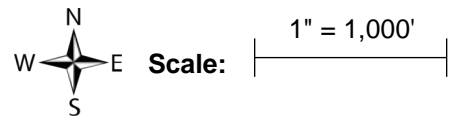
FLIGHT YEAR:
1987



FLIGHT YEAR:
1993



FLIGHT YEAR:
1995



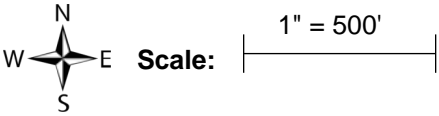
FLIGHT YEAR:
1998



Scale: 1" = 500'



FLIGHT YEAR:
2005



FLIGHT YEAR:
2009



Scale: |-----| 1" = 500'



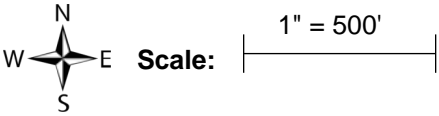
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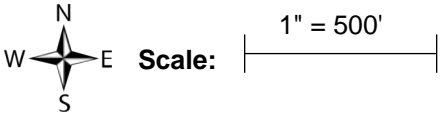
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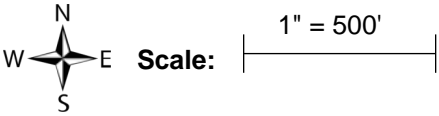
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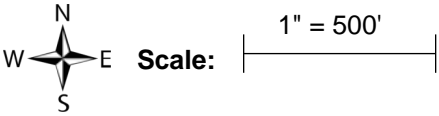
FLIGHT YEAR:
2014



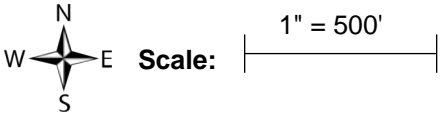
FLIGHT YEAR:
2016



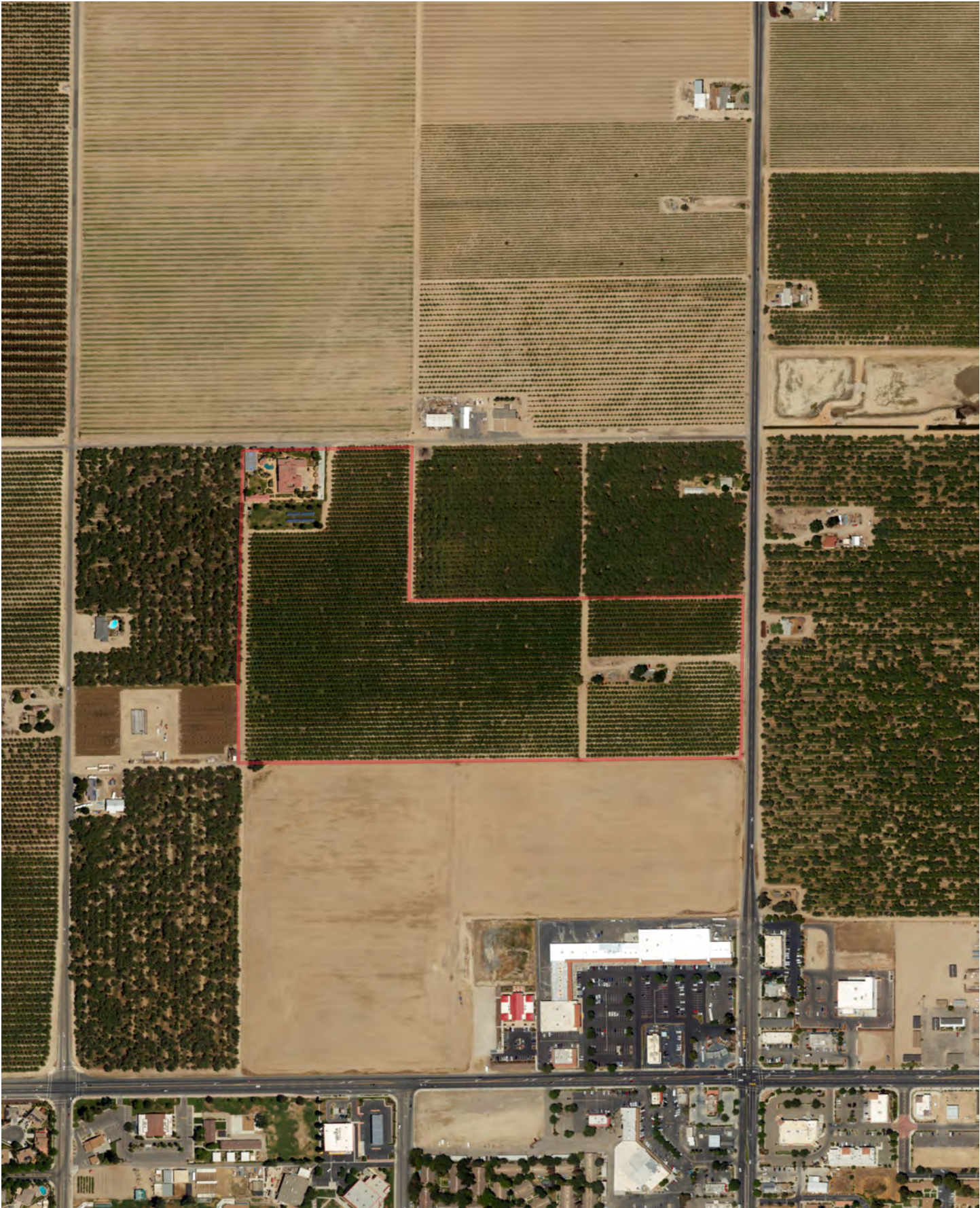
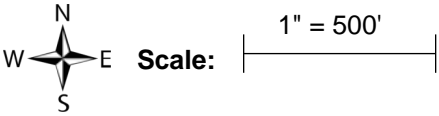
FLIGHT YEAR:
2018



FLIGHT YEAR:
2020



FLIGHT YEAR:
2022



APPENDIX E

HISTORIC CITY DIRECTORIES



City Directory Report | 2024

Order Number: 94363

Report Generated: January 25, 2024
240050 Orchards at Gill Estates
15050 - 15310 W Nielsen Ave
Kerman, CA 93630

56 Broome Corporate Parkway
Conklin, NY 13748

Prepared for EnviroSite Corporation By:



Property Archives

Toll Free: 866-211-2028
www.envirositecorp.com

City Directory Report

Envirosite's Standard City Directory Report is a screening tool designed to assist in historical use determination of a subject property and adjacent properties. It includes a search of Property Archives digital datasets and national book collections including the Library of Congress and/or the Allen County Public Library at five year intervals or the closest available intervals.

RESEARCH SUMMARY:

The following research sources were consulted in the preparation of this report:

<u>SOURCE:</u>	<u>YEAR:</u>
Property Archives	2020, 2015, 2010, 2006, 2001, 1998, 1993
Central San Joaquin Valley Criss Cross Directory	1988, 1983, 1978, 1972

Property Archives is a proprietary and comprehensive dataset of over 1.5 billion commercial, industrial and residential records, business names and uses and occupant records for every city and town in the United States, from recent years to the early 1990s. Property Archives dataset is wholly owned and operated by Property Archives, LLC

This report was prepared by Property Archives, LLC for Envirosite Corporation



SUBJECT PROPERTY:

15050 - 15310 W Nielsen Ave , Kerman, CA 93630

ADJOINING PROPERTIES:

342 - 592 CA 145 (Alias- N Madera Ave), Kerman, CA

15050- 15319 W Nielsen Ave, Kerman, CA, 93630

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2020 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

JAY BLAIR15175 W Nielsen Ave

PAT BLAIR15175 W Nielsen Ave

2015 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

JAY BLAIR15175 W NIELSEN AVE

PAT BLAIR15175 W NIELSEN AVE

BLAIR APIARIES15175 W NIELSEN AVE

2010 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

JAY BLAIR15175 W NIELSEN AVE

PATRICIA BLAIR15175 W NIELSEN AVE

BLAIR APIARIES15175 W NIELSEN AVE

2006 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

Jay Ray Blair15175 W Nielsen Ave

Jay Blair15175 W NIELSEN AVE

2001 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

Jay R Blair15175 W Nielsen Ave

1998 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

Jay Ray Blair15175 W Nielsen Ave

1993 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

BLAIR JAY R15175 W NIELSEN AVE

<u>SOURCE:</u>	Central San Joaquin Valley Criss Cross Directory
<u>STREET:</u>	15050- 15319 W Nielsen Ave, Kerman, CA, 93630
<u>YEAR:</u>	1988
<u>INFO:</u>	12311 GORE Bill 12455 XXXX 15175 BLAIR David BLAIR Jay Ray 16122 HOUSER Ralph 16205 XXXX 16235 XXXX

<u>SOURCE:</u>	Central San Joaquin Valley Criss Cross Directory
<u>STREET:</u>	15050- 15319 W Nielsen Ave, Kerman, CA, 93630
<u>YEAR:</u>	1983
<u>INFO:</u>	12455 XXXX 15175 BLAIR JAY RAY FROST JERRY 16122 HOUSR RALPH 16205 XXXX

<u>SOURCE:</u>	Central San Joaquin Valley Criss Cross Directory
<u>STREET:</u>	15050- 15319 W Nielsen Ave, Kerman, CA, 93630
<u>YEAR:</u>	1978
<u>INFO:</u>	12300 BLANKENSHIP B E 12311 ROGINA ALEX 12455 BRINGETTO PAUL BRINGETTO VICTOR P 15175 BLAIR JAY RAY FROST JERRY 16122 HOUSR RALPH 16205 XXXX

<u>SOURCE:</u>	Central San Joaquin Valley Criss Cross Directory
<u>STREET:</u>	15050- 15319 W Nielsen Ave, Kerman, CA, 93630
<u>YEAR:</u>	1972
<u>INFO:</u>	12455 BRINGETTO PAUL 15175 *ALS CROP DUSTING SV HORTON FLORENCE OBERG MERRILL C 16122 HOUSER RALPH 16359 TRAW H L 16205 FISCHER TERRY

2020: CA 145 (Alias- N Madera Ave), Kerman, CA

BRIAN LAMBRECHT	402 N Madera Ave
JOE VALLANDINGHAM	447 N Madera Ave

2015: CA 145 (Alias- N Madera Ave), Kerman, CA

BRIAN LAMBRECHT	402 N MADERA AVE
KRISTINA LAMBRECHT	402 N MADERA AVE
JOE VALLANDINGHAM	447 N MADERA AVE
ANITA PIERCE	564 N MADERA AVE
ABEL MONTE	592 N MADERA AVE

2010: CA 145 (Alias- N Madera Ave), Kerman, CA

ALEC ZEMANSKY	402 N MADERA AVE
ABEL MONTE	592 N MADERA AVE

2006: CA 145 (Alias- N Madera Ave), Kerman, CA

Glenn & Julie Temple	342 N Madera Ave
P Zemansky	402 N Madera Ave
LAMBRECHT FAMILY FARMS	402 N MADERA AVE
Joe L Vallandingham	447 N Madera Ave
Anita Pierce	564 N Madera Ave
John L Medico	592 N Madera Ave

2001: CA 145 (Alias- N Madera Ave), Kerman, CA

P Zemansky	402 N Madera Ave
Joe L Vallandingham	447 N Madera Ave

1998: CA 145 (Alias- N Madera Ave), Kerman, CA

Glenn & Julie Temple	342 N Madera Ave
P Zemansky	402 N Madera Ave
Joe L Vallandingham	447 N Madera Ave
Anita Pierce	564 N Madera Ave
John L Medico	592 N Madera Ave

1993: CA 145 (Alias- N Madera Ave), Kerman, CA

ZEMANSKY P	402 N MADERA AVE
VALLANDINGHAM JOE L	447 N MADERA AVE

PIERCE ANITA

564 N MADERA AVE

WALKER JASON

564 N MADERA AVE

MEDICO JOHN L

592 N MADERA AVE

