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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(559) 550-0829

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(916) 749-0967

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.

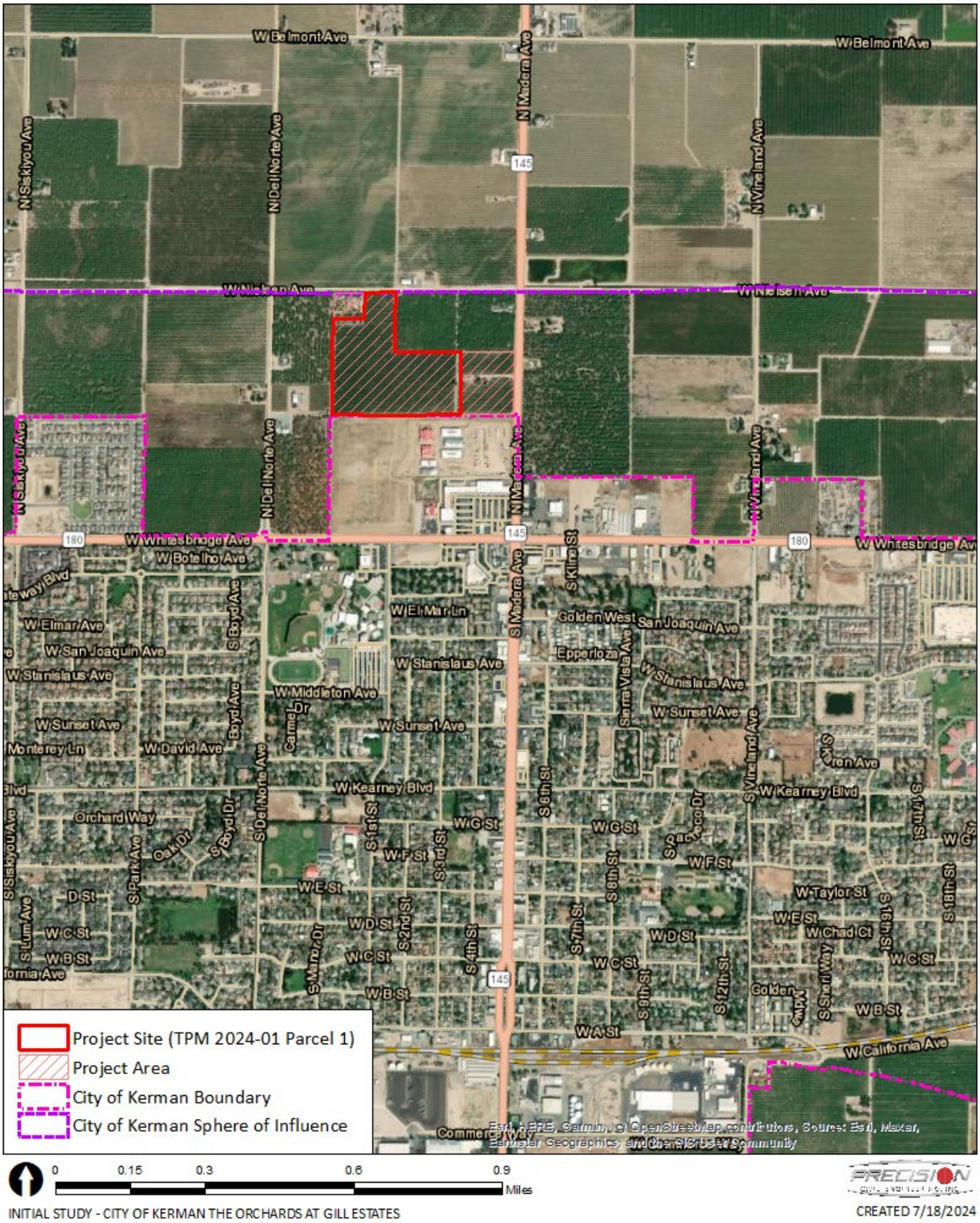


Figure 2-1 The Orchards at Gill Estates Project Location

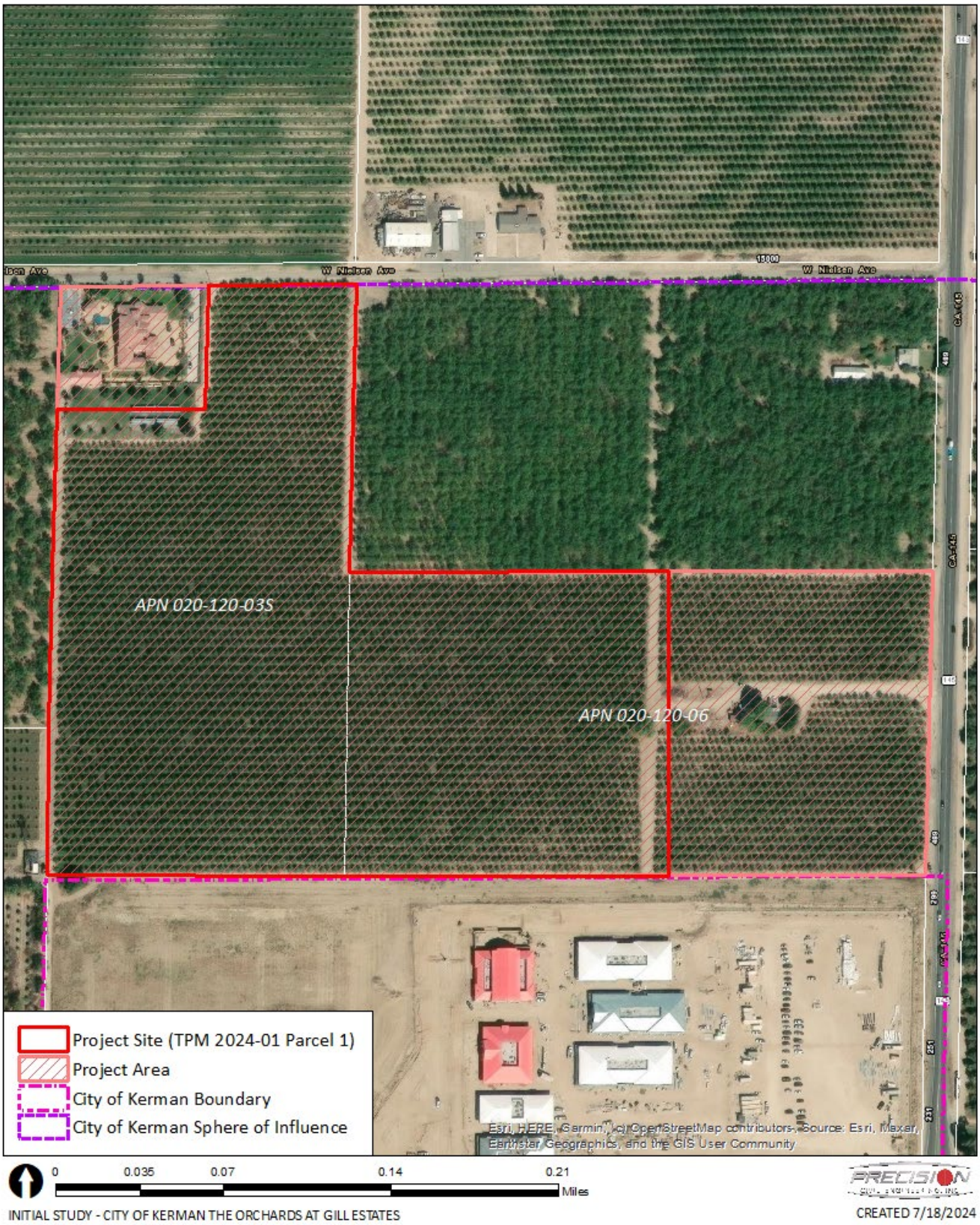


Figure 2-2 The Orchards at Gill Estates Project Aerial

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.

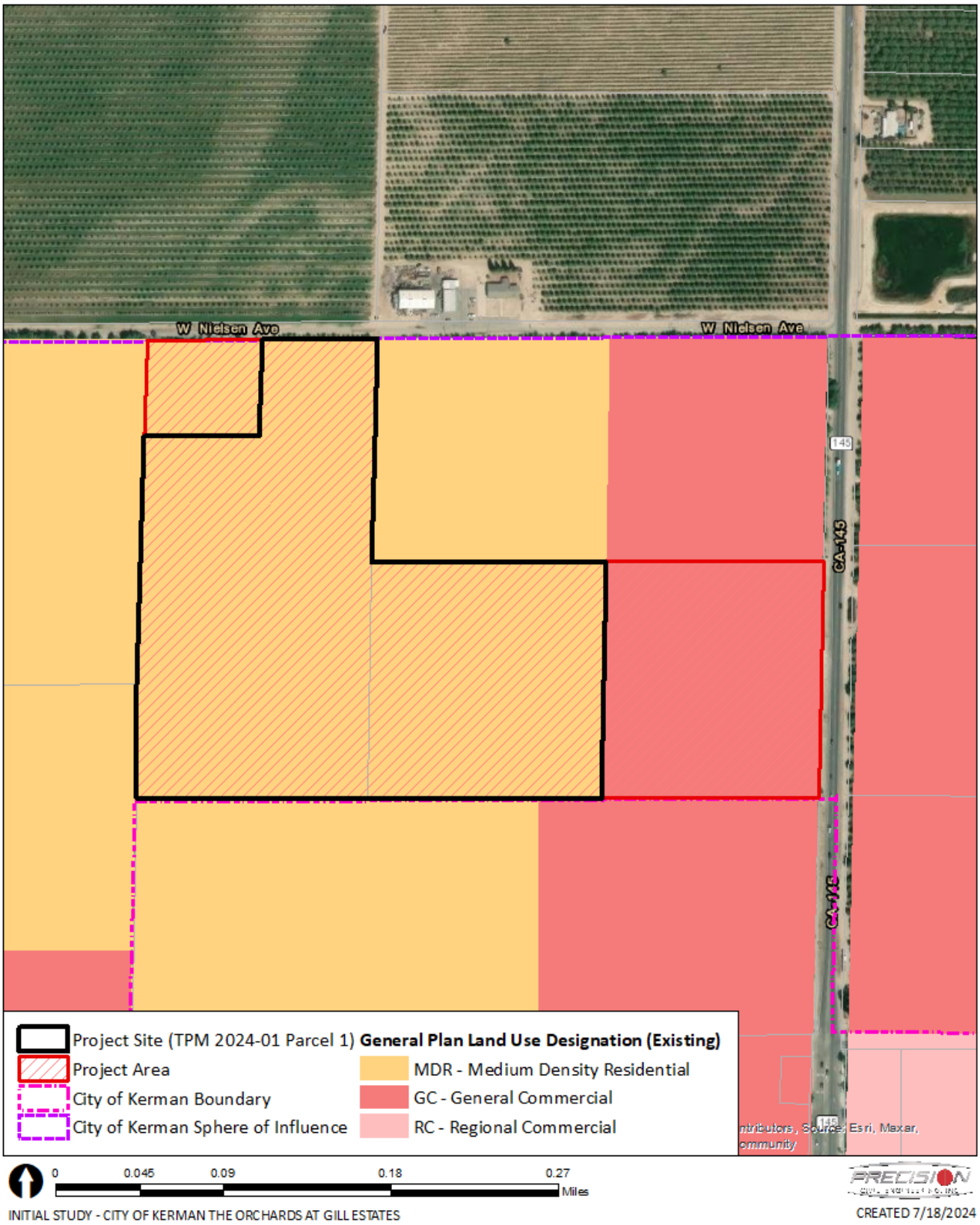


Figure 2-3 City of Kerman General Plan Land Use Designation Map (Existing)

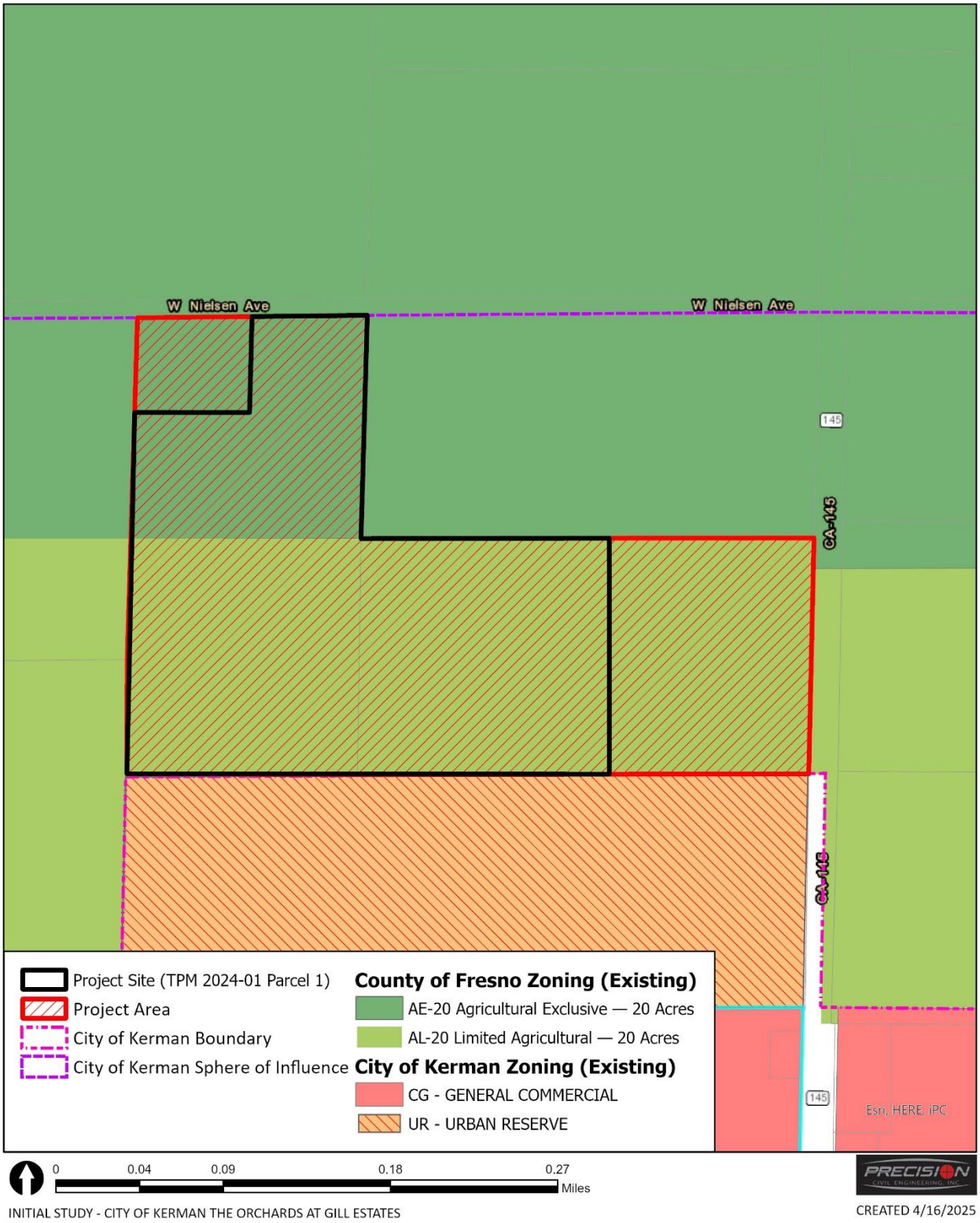


Figure 2-4 Zoning District Map (Existing)

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 facilitates the improvement of Nielsen Avenue along the Project frontage with pavement, curb, and gutter. 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.

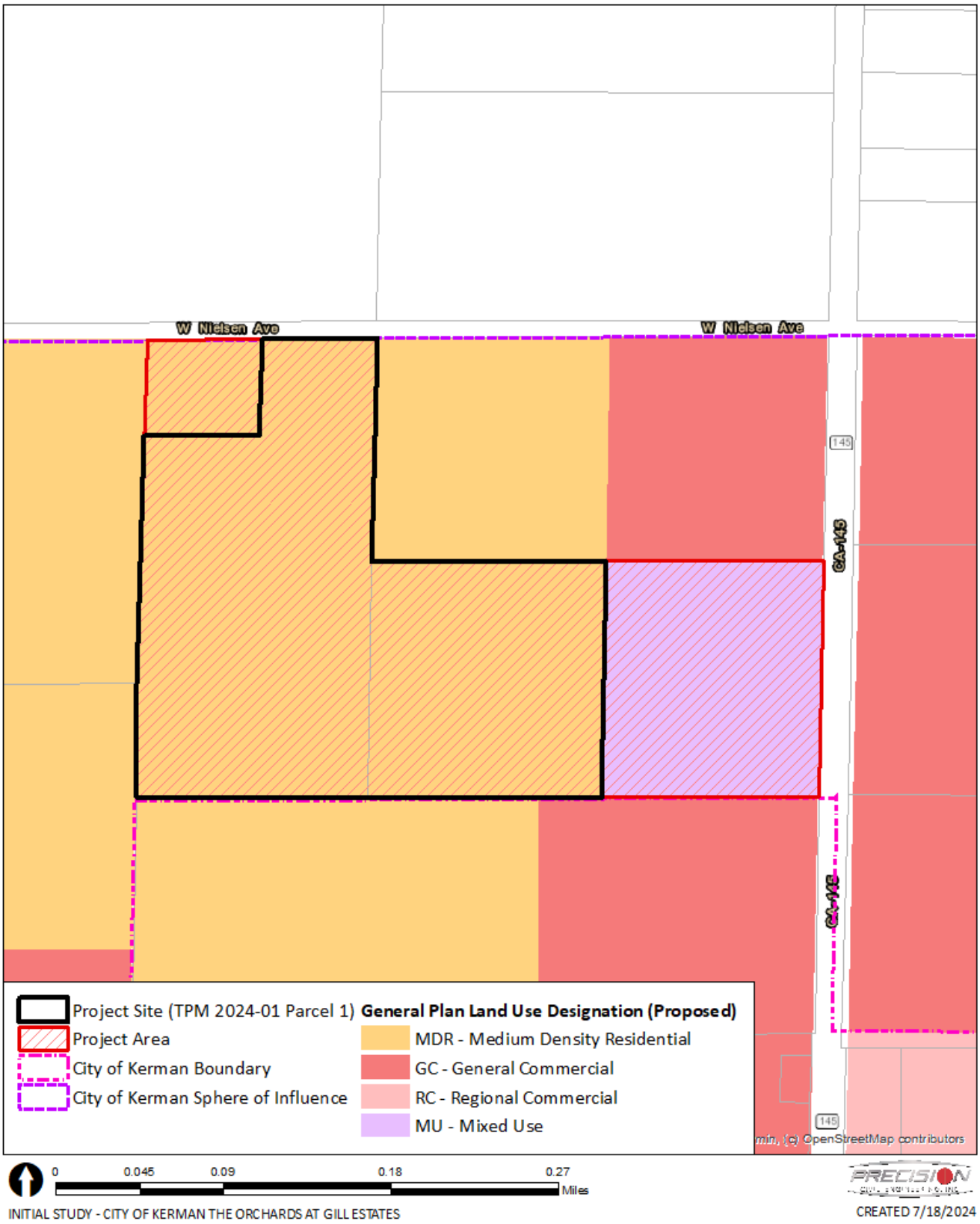


Figure 2-5 City of Kerman General Plan Land Use Designation Map (Proposed)

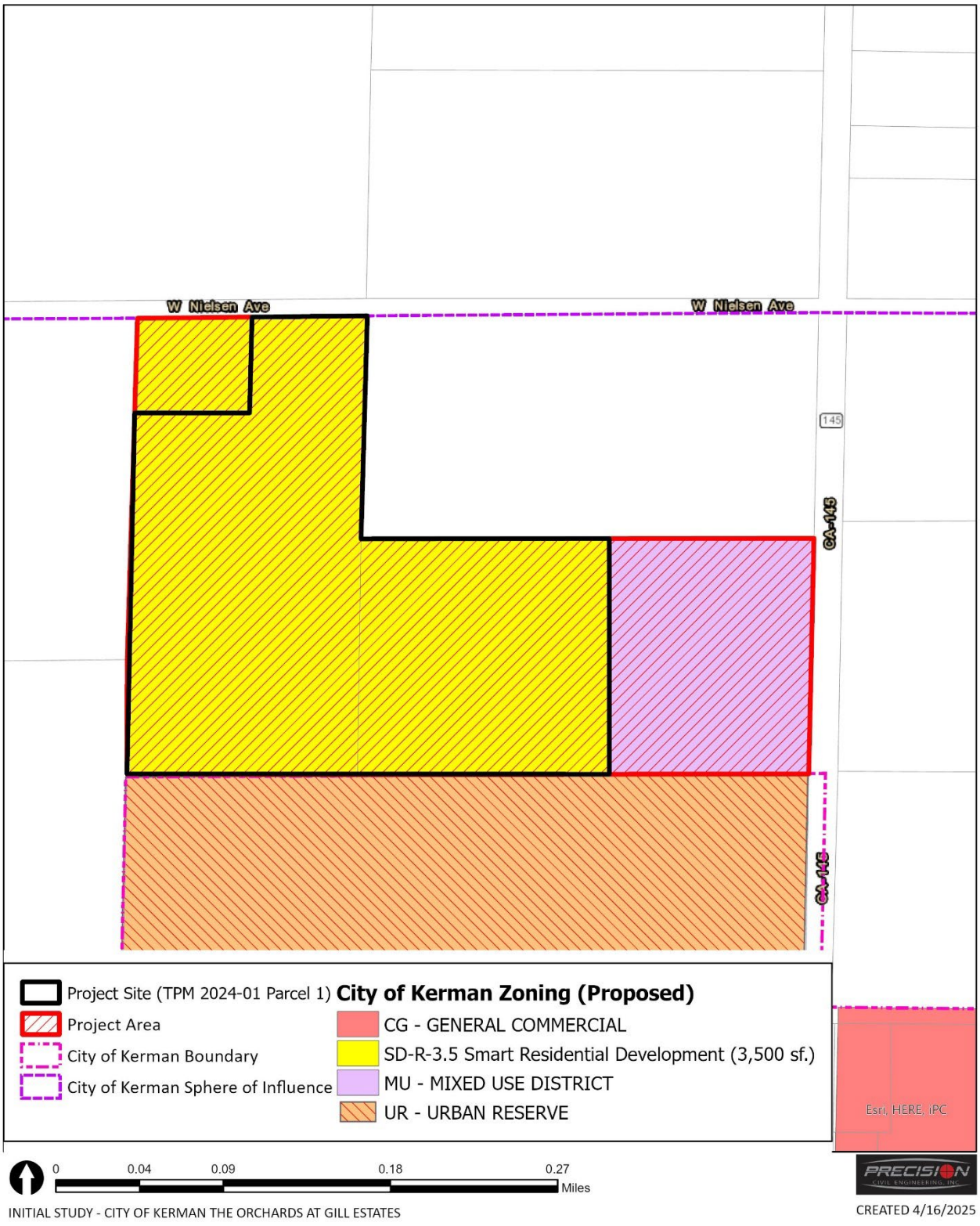


Figure 2-6 City of Kerman Zoning District Map (Proposed)

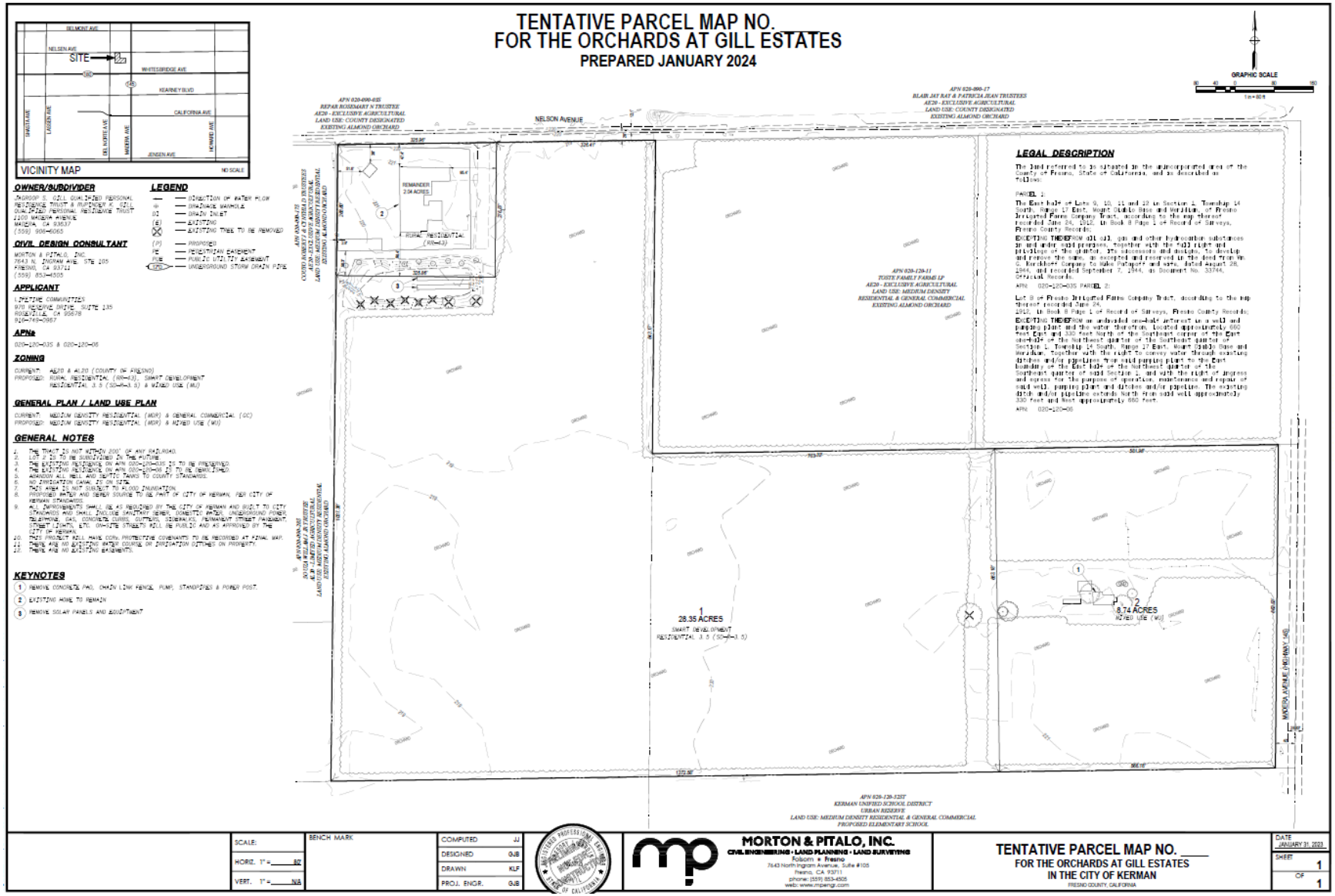


Figure 2-7 Tentative Parcel Map

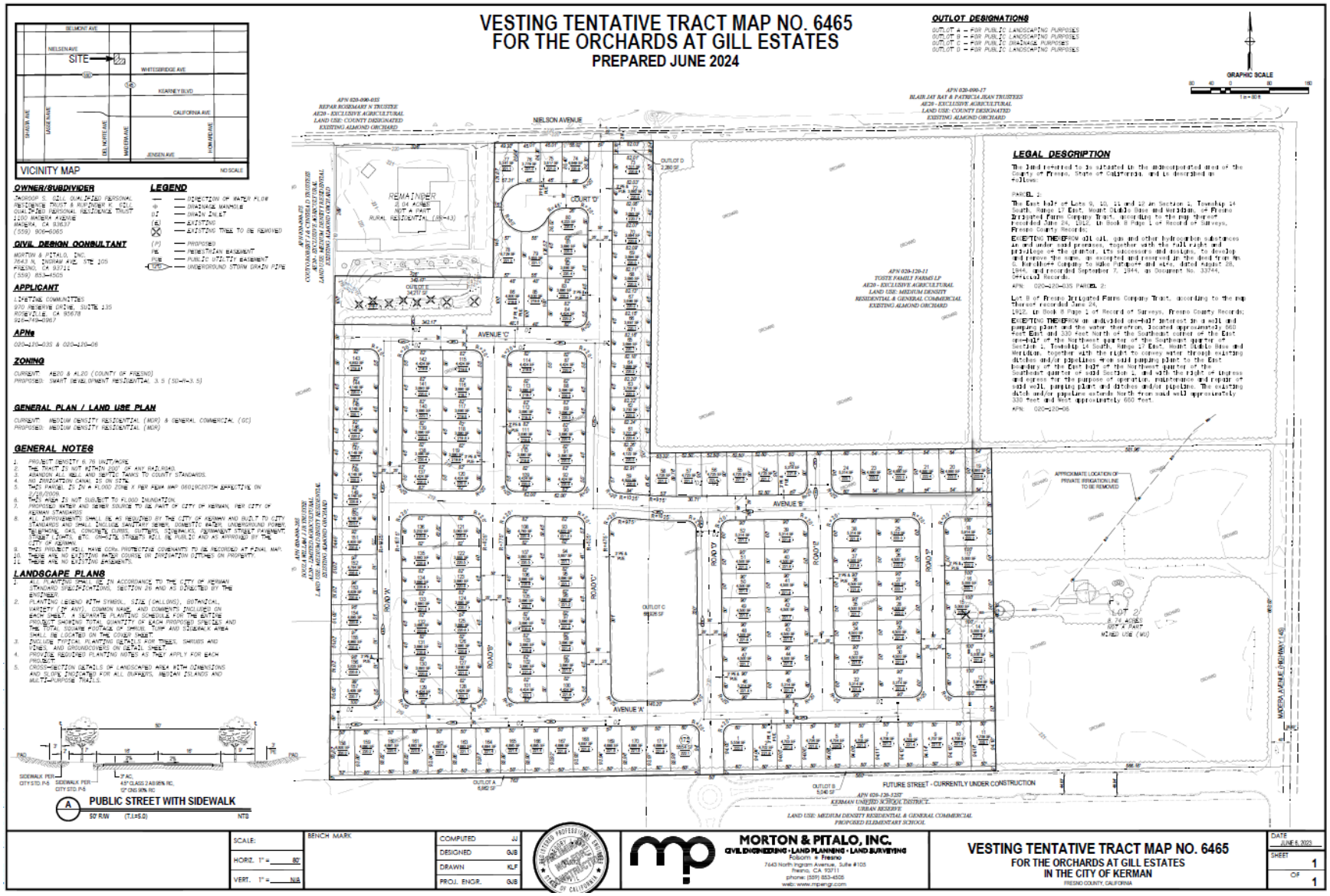


Figure 2-8 Tentative Tract Map



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 facilitates 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.

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

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 *Section 21099*, **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=465dfd3d807c46cc8e8057116f1aacaa

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.*

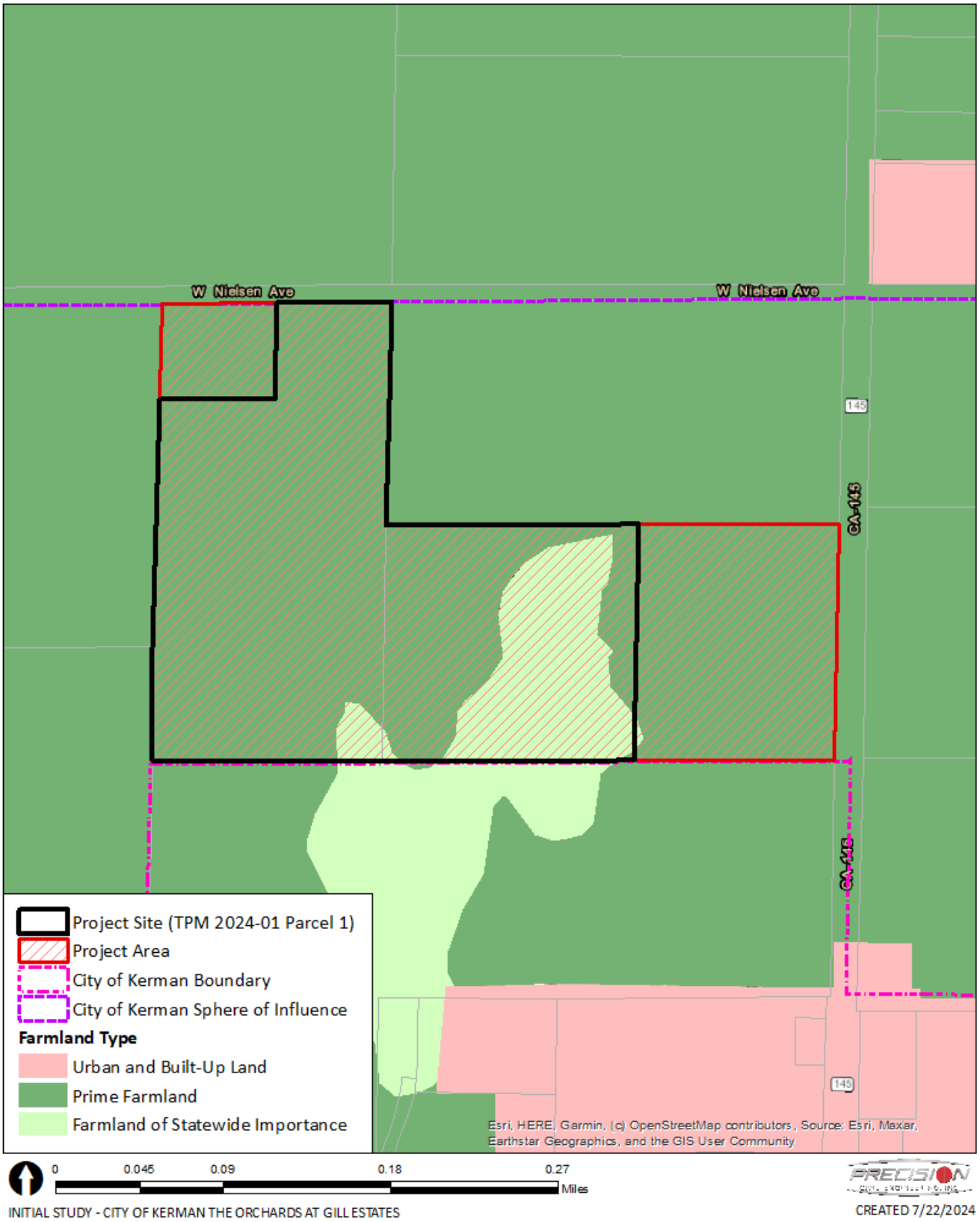


Figure 4-1 Farmland Type

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 (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), 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 [PM_{10}]). 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, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, 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 O_3, PM_{10}, 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 (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 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 PM_{10}) recorded the following exceedances of the federal and State 24-hour PM_{10} standards:

- The State 24-hour PM_{10} standards had 20 exceedances in 2021, 133 exceedances in 2022, and an unknown number of exceedances in 2023.
- The federal 24-hour PM_{10} 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 SJVACPD 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 PM_{10} standard, the SJVAPCD adopted the 2007 PM_{10} 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 O_3 and $PM_{2.5}$. In addition, the SJVAB is in nonattainment for the PM_{10} 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, NOx, reactive organic gases (ROGs), directly emitted $PM_{2.5}$ or PM_{10}, 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. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} 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 PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SOx), NOx, ROGs, and some soot particulate ($PM_{2.5}$ and PM_{10}) 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, PM_{10}, 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, PM_{10} 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

The results shown in Table 4-5 indicate the proposed project would not exceed the significance criteria for annual ROG, NOx, CO, Sox, PM_{10}, 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 NOx and PM_{10} 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) EcoAtles 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 (CNDDB) 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 CNDDB 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 (CNDDB). 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 *Section 15064.5*?		X		
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to *Section 15064.5*?		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.l)*, 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?				

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.

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[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 effected 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.*

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[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.*

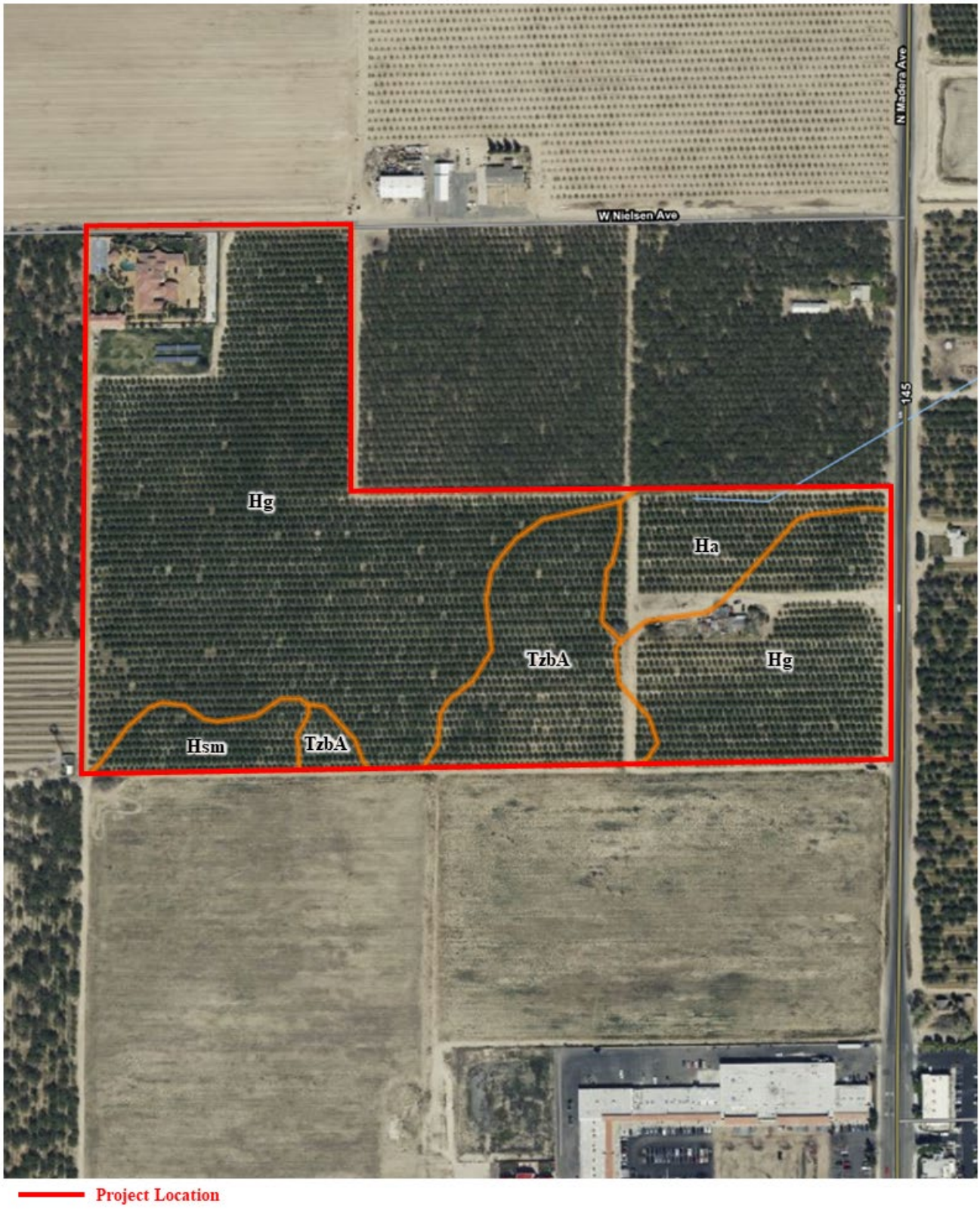


Figure 4-2 Soils Map

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 (CO_2);
- Methane (CH_4);
- Nitrous oxide (N_2O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF_6).

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., CO_2, CH_4, and N_2O), some gases (e.g., HFCs, PFCs, and SF_6) 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 CO_2, 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 CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalents (CO_2e).

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 CO_2, CH_4, and N_2O. Furthermore, CH_4 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 CO_2e (MT CO_2e) 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 CO_2e 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 CO_2e 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_2O	CO_2e
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).

CH_4 = methane; CO_2 = carbon dioxide; CO_2e = carbon dioxide equivalent; N_2O = 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 J17772 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 *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 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 ATSM 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 of 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 the 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) precent 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/

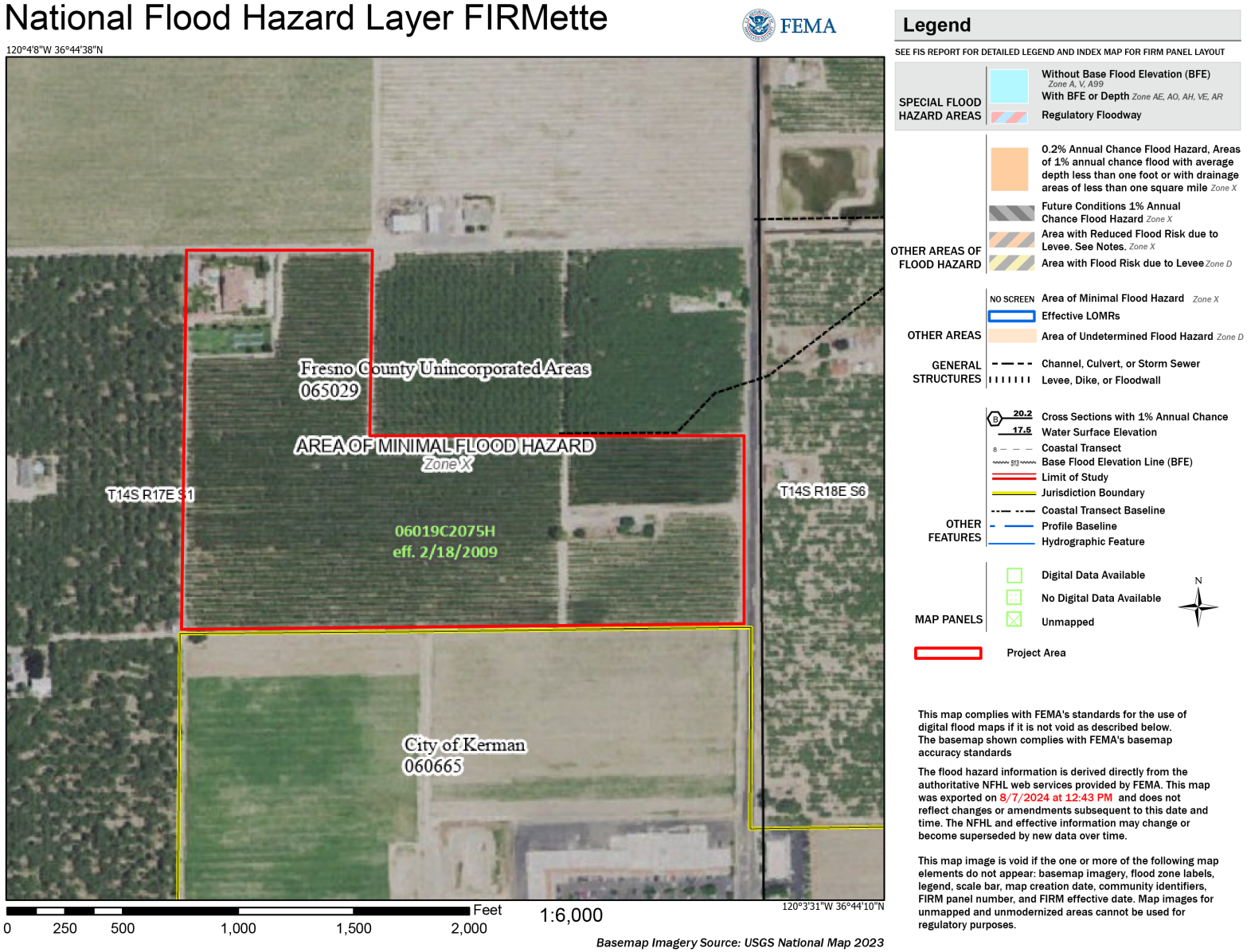


Figure 4-3 Flood Zone Map

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	
Policy LU-1.4 Limit Residential Development Along Highways. *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.*	**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.
LU-1.6 Agricultural Buffers. *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*	**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 withsingle-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 L_{dn}. 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 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:*

    - ***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.*

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 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 'f 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. Groudborne 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 raidiate 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 boarders 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-feet smeal 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 Joquin 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 discusses 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 map [26]

[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 Avene 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 X (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 *Fresno County SB 743 Implementation Regional Guidelines* 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 *Fresno County SB 743 Implementation Regional Guidelines* 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

Would the Project: Cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC *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:	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 *Section 5020.1(k)*, 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 *section 5024.1*. In applying the criteria set forth in subdivision (c) of PRC *section 5024.1*, 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 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					
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	1. Project Proponent 2. City of Kerman Community Development Department (Condition of Approval) and Project Proponent (Recordation) 3. Project Proponent	1. Prior to occupancy approval for each unit 2. Prior to final map approval 3. Prior to occupancy approval for each unit	City of Kerman Community Development Department		

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.					

Biological Resources					
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	Project Proponent	Prior to issuance of building permits for each phase	City of Kerman Community Development Department		

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 shallnot 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 (CNDDB). 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.					
Cultural Resources					
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	Project Proponent	During construction activities for all phases	City of Kerman Community Development Department		

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.					
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					
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	Project Proponent	Prior to approval of demolition permits	City of Kerman Community Development Department		

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	Project Proponent	Prior to approval of demolition permits	City of Kerman Community Development Department		

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	Project Proponent	Prior to building permit approval for the first construction phase	City of Kerman Community Development Department		

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					
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. 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.	Project Proponent	Prior to issuance of building permit	City of Kerman Community Development Department		

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: • **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. *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					

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.					
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 proponent 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.	Project Proponent	Prior to issuance of building permit; and prior to issuance of occupancy	City of Kerman Community Development Department		

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.					
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. • **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		

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.					
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 Chilingerian, 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.

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

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 (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), 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 [PM_{10}]). 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, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, 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 O_3 and $PM_{2.5}$ and nonattainment by State standards for O_3, PM_{10}, 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).
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:[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 ($\mu g/m^3$) to 9.0 $\mu g/m^3$; 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

[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 PM_{10}) recorded the following exceedances of the federal and State 24-hour PM_{10} standards:

- The State 24-hour PM_{10} standards had 20 exceedances in 2021, 133 exceedances in 2022, and an unknown number of exceedances in 2023.

- The federal 24-hour PM_{10} 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

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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 (CO_2);

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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/gasby county.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 (CH_4);
- Nitrous oxide (N_2O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF_6).

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., CO_2, CH_4, and N_2O), some gases (e.g., HFCs, PFCs, and SF_6) 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 CO_2, 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 CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalents (CO_2e).

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, O_3, SO_2, and NO_2 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 PM_{10} Prohibitions.** Rules 8011–8081 are designed to reduce PM_{10} 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 PM_{10} 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 Plan[14] 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 SJVACPD 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

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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 (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 Plan[17] 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 e 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 Plan[18] 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 CO_2 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 (CO_2, CH_4, N_2O, HFCs, NF_3, PFCs, and SF_6) 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) CO_2e. The emissions target of 427 MMT CO_2e 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 CO_2e, or approximately 30 percent, from the State's projected 2020 emission level of 596 MMT CO_2e under a business-as-usual scenario (this is a reduction of 42 MMT CO_2e, 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 CO_2e);
- The Low-Carbon Fuel Standard (15.0 MMT CO_2e);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e); and
- A renewable portfolio standard for electricity production (21.3 MMT CO_2e).

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 Plan[20] 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

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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 CO_2e 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 CO_2e 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 Plan[21] 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 rout es 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
PM_{10} = 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 PM_{10} standard, the SJVAPCD adopted the 2007 PM_{10} 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/m^3 and 24-hour $PM_{2.5}$ standard of 65 µg/m^3, the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m^3, and the 2012 annual $PM_{2.5}$ standard of 12 µg/m^3.[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 O_3 and $PM_{2.5}$. In addition, the SJVAB is in nonattainment for the PM_{10} 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.

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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 PM_{10} 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 PM_{10}, 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. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} 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 (PM_{10}). 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 PM_{10} 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 PM_{10}) 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
PM_{10} = 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, PM_{10}, 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 PM_{10} 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, PM_{10} 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
PM_{10} = 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, PM_{10}, 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 PM_{10} 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.

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[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 Fshows 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

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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 CO_2, CH_4, and N_2O. Furthermore, CH_4 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 CO_2e (MT CO_2e) 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 CO_2e 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 CO_2e 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_2O	CO_2e
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).
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = 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 Considerations[33], 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.

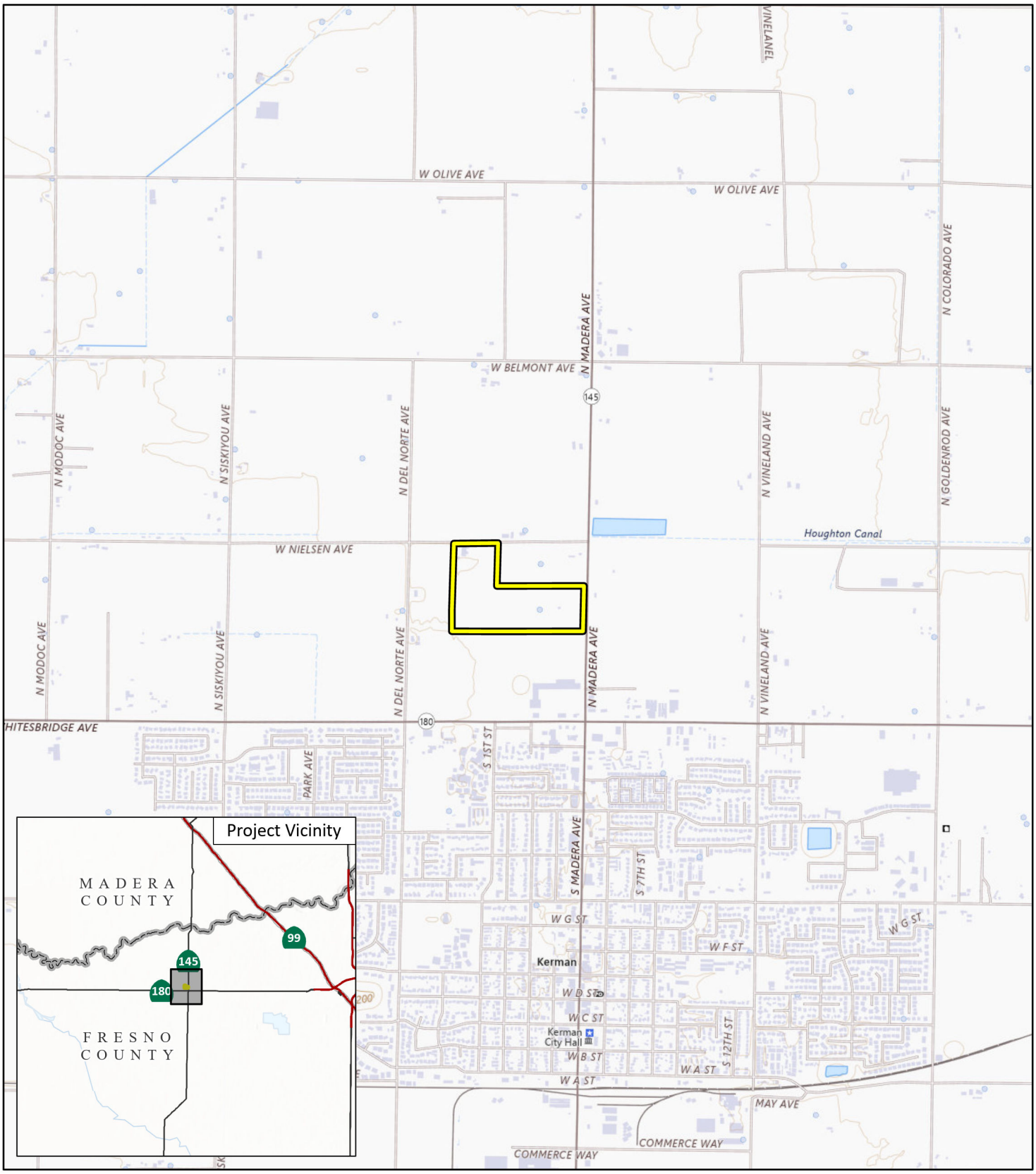
CONCLUSION

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



LSA

Project Location

FIGURE 1

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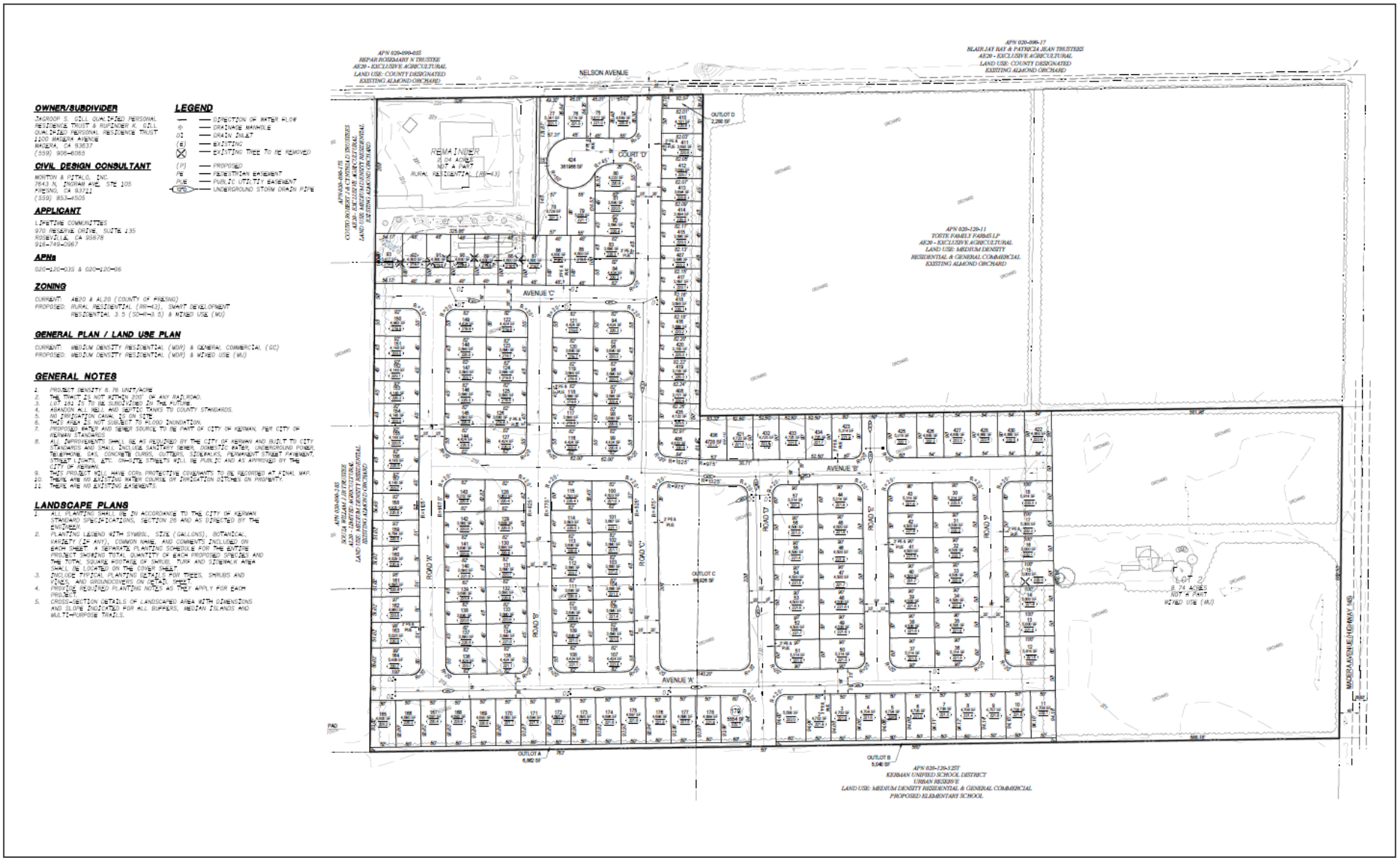
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SOURCE: USGS The National Map (2019)

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The Orchard at Gill Estates Project

Project Location



LSA

FIGURE 2

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The Orchard at Gill Estates Project

Site Plan

SOURCE: Morton and Pitalo, Inc.

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ATTACHMENT B

CALEEMOD OUTPUTS

The Orchard at Gill Estates Project Custom Report

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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

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

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/Backhoes	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/Backhoes	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/Backhoes	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

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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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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	—	—	—

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

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

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
Architectural 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
Architectural 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
Architectural 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments 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/Backhoes	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/Backhoes	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/Backhoes	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

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

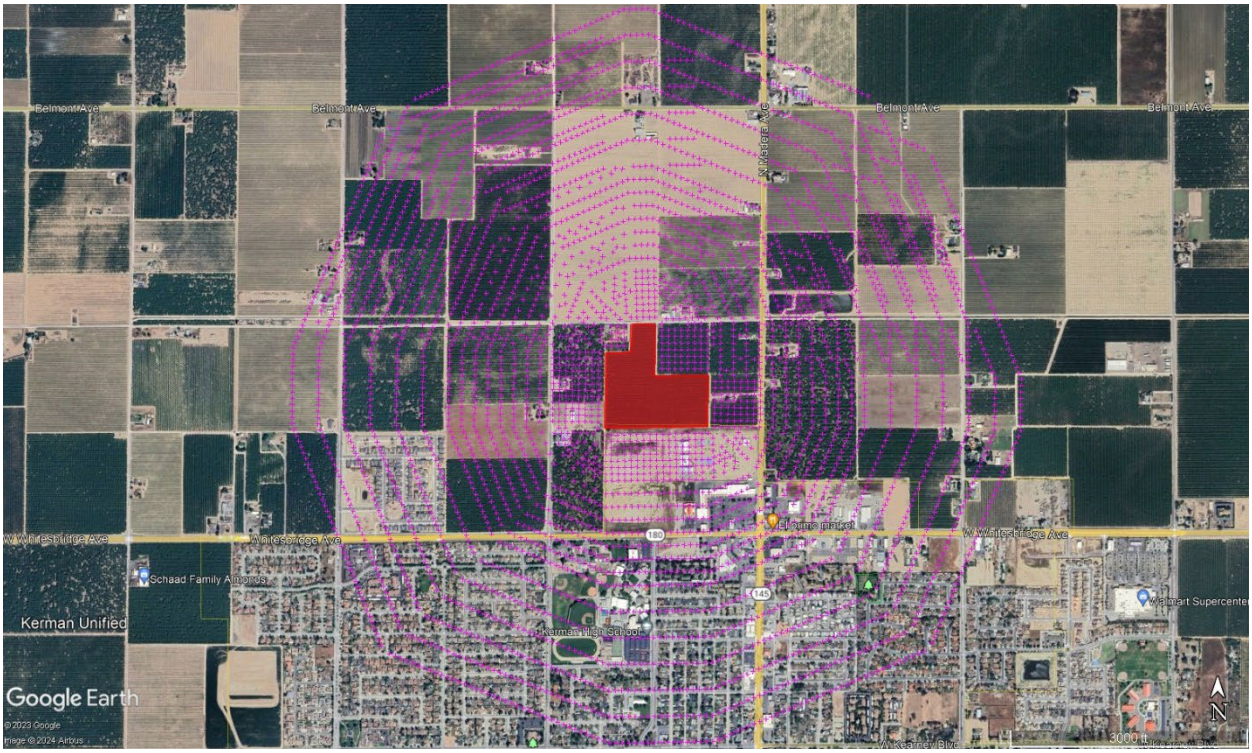
8. User Changes to Default Data

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

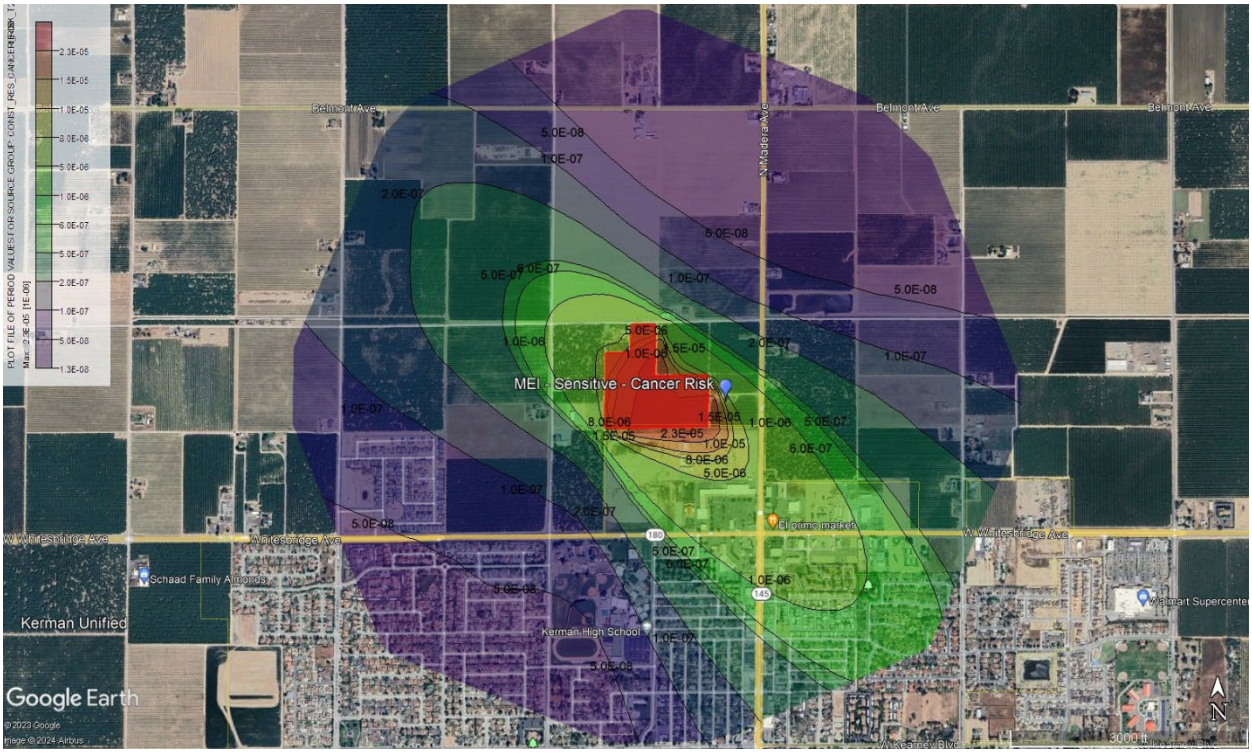
ATTACHMENT C

HRA MODEL SNAPSHOTS AND OUTPUT

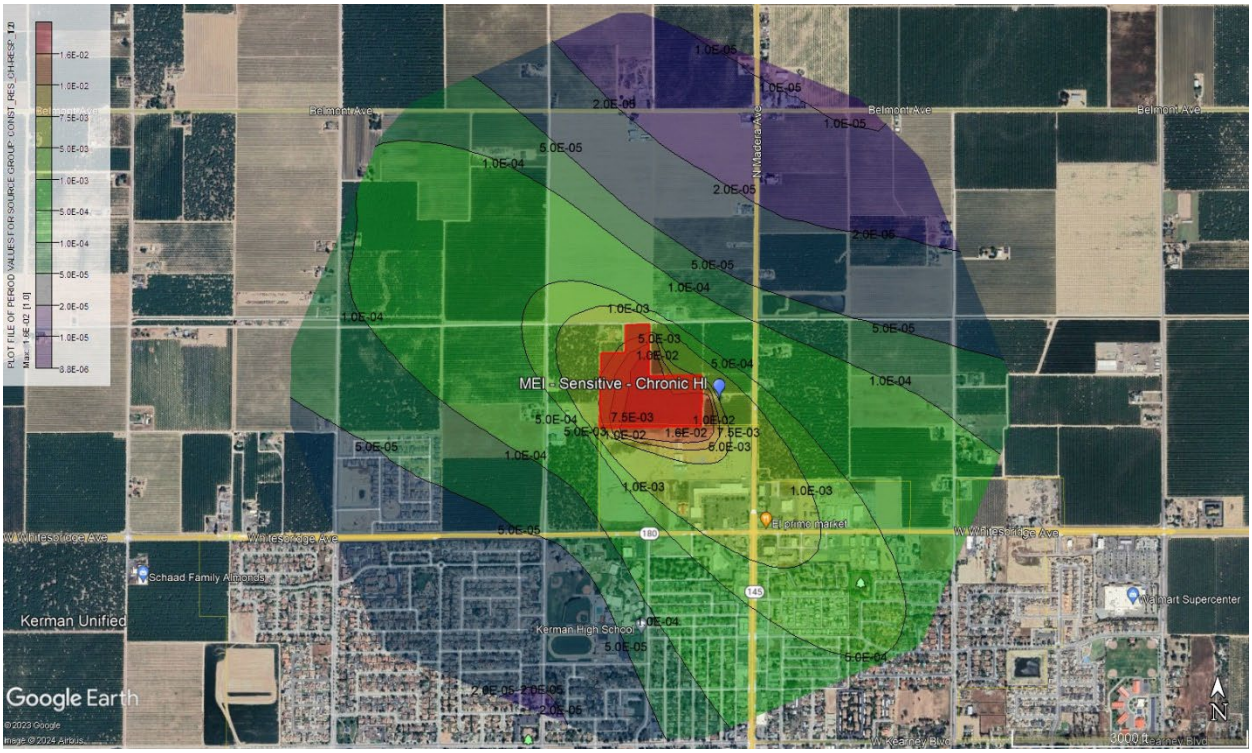
Sensitive Receptor Grid



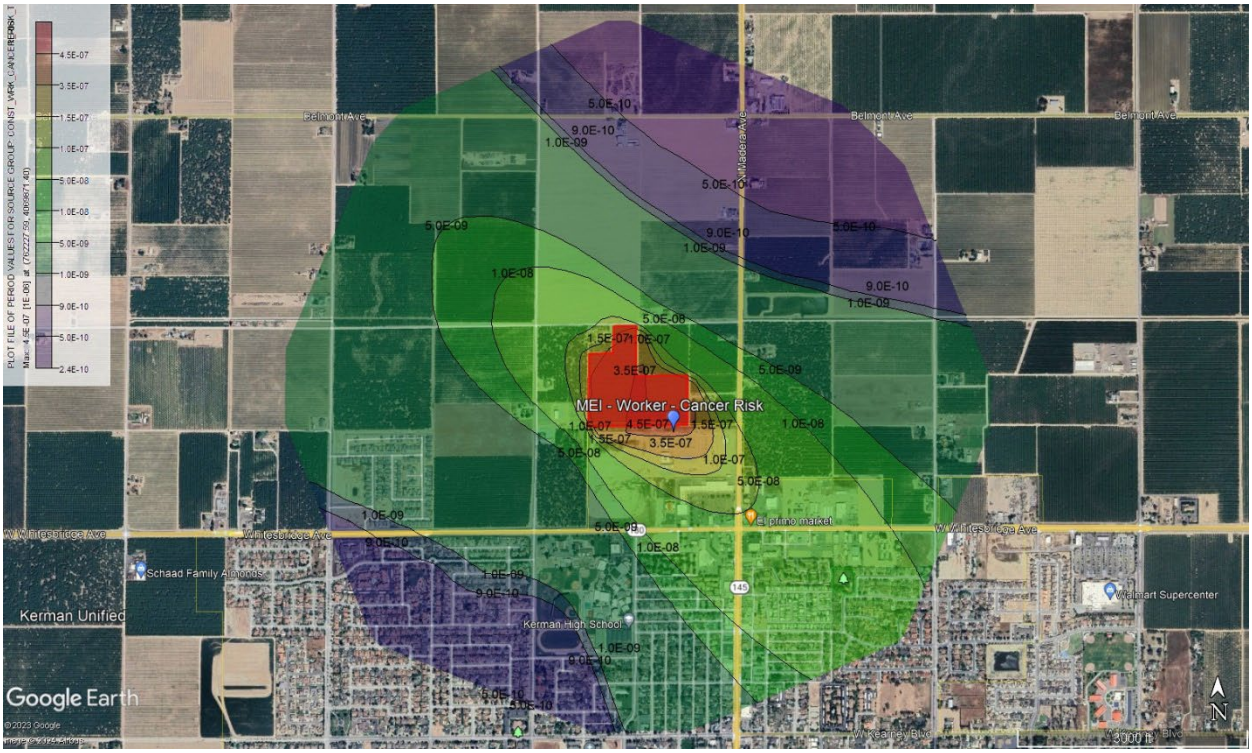
Construction Cancer Risk – Sensitive Receptor



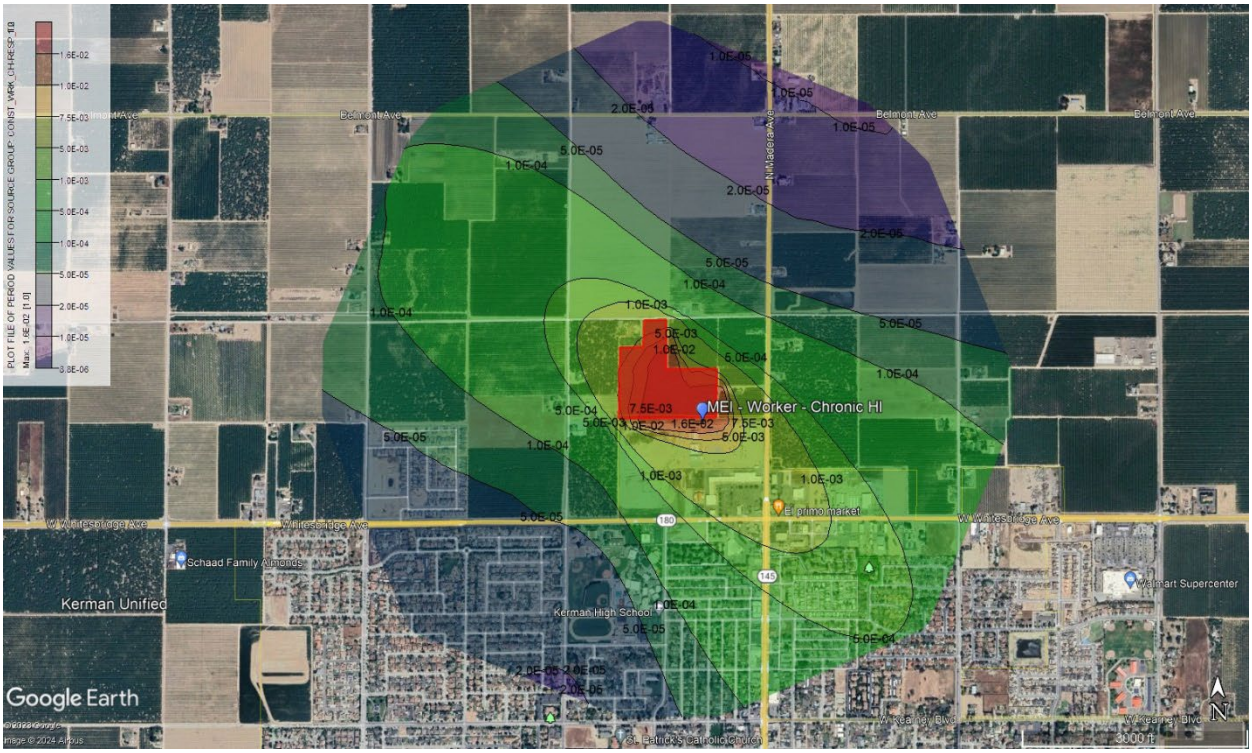
Construction Chronic Health Index – Sensitive Receptor



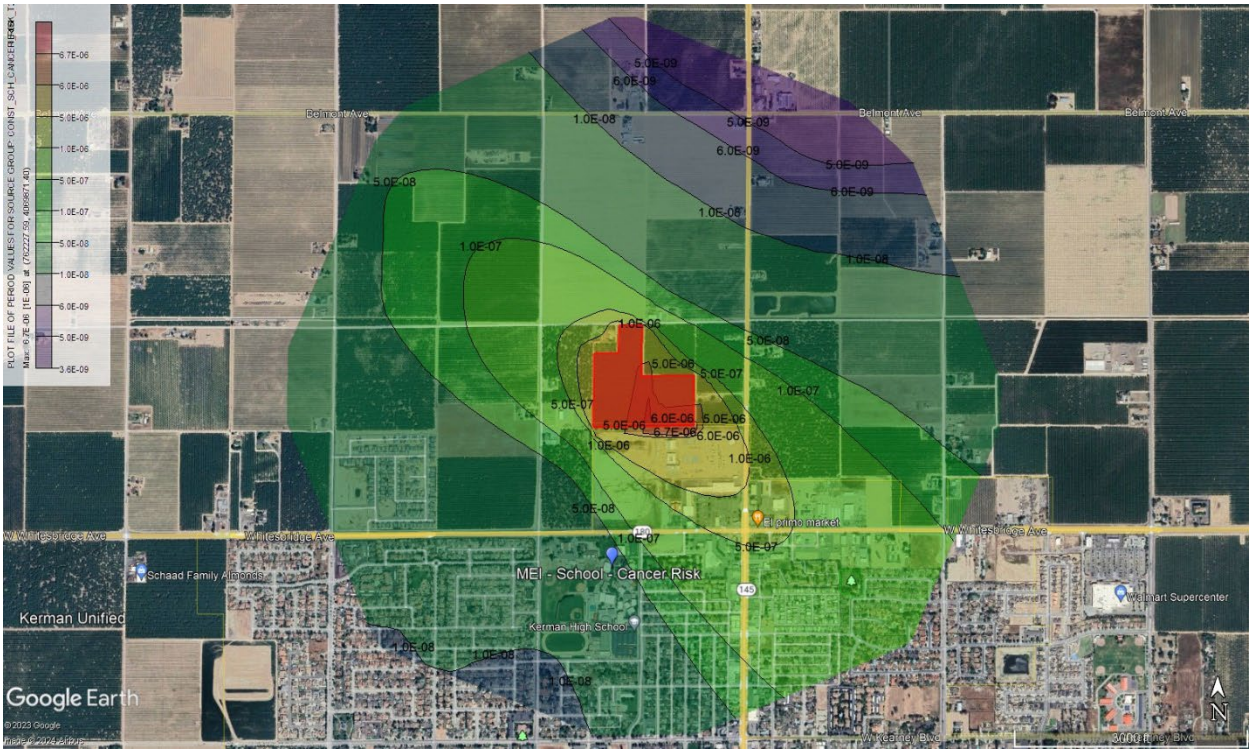
Construction Cancer Risk – Worker Receptor



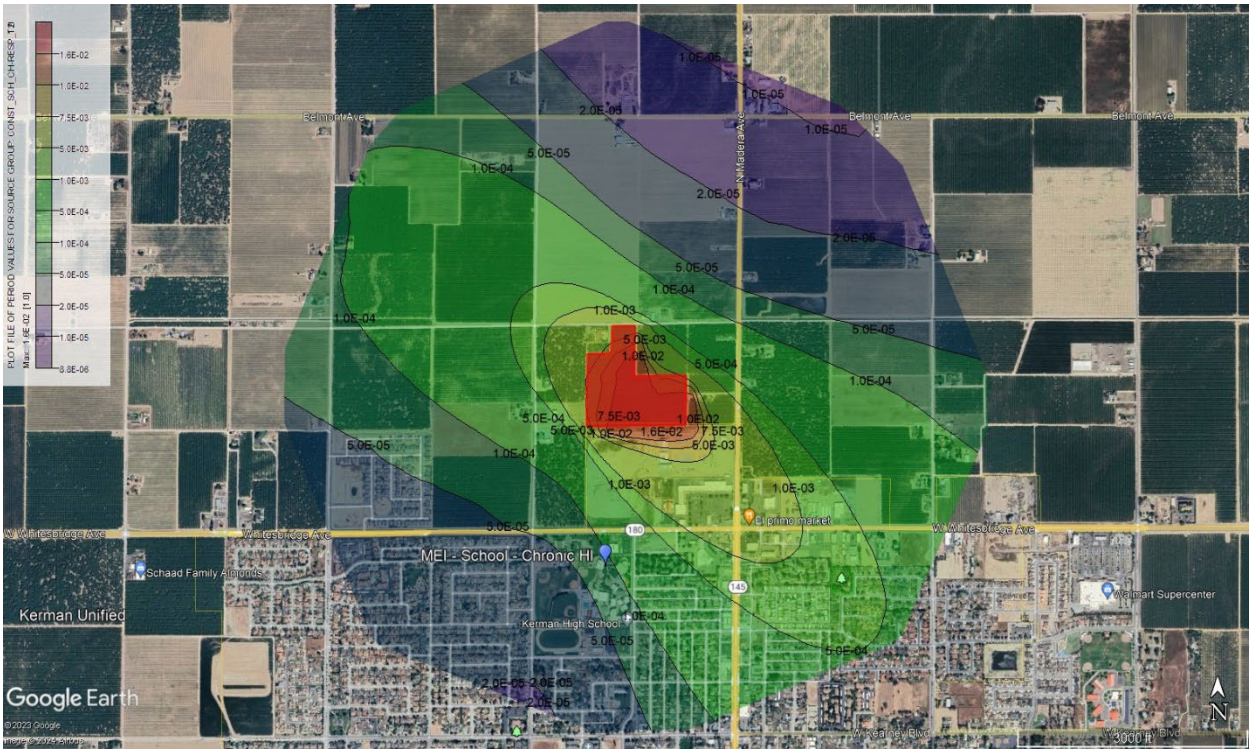
Construction Chronic Health Index – Worker Receptor



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

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

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 Sensitive Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
30 Yr Cancer Risk (in a Million)	0	0 0	0.00
70 Yr Cancer Risk (in a Million)	0	0 0	0.00
Chronic HI	0	0 0	0.00E+00
Acute HI	0	0 0	0.00E+00
PM 2.5	0	0 0	0.0000

Operational Worker Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
25 Yr Cancer Risk (in a Million)	0	0 0	0.00
Chronic HI	0	0 0	0.00E+00
Acute HI	0	0 0	0.00E+00
PM 2.5	0	0 0	0.00E+00

Operational School Receptor			
Parameter	**HARP Rec #**	**X & Y Coordinate**	**Result**
9 Yr Cancer Risk (in a Million)	0	0 0	0.00
Chronic HI	0	0 0	0.00E+00
Acute HI	0	0 0	0.00E+00
PM 2.5	0	0 0	0.0000

	Zone	**10**	Process Coordinates									
	Datum	**WGS 1984**										
	KML File Name	**20241565 Project MEI**										
										Sensitive		
Description	**Receptor Type**	**Model Type**	**UTM X**	**UTM Y**	**Latitude**	**Longitude**			Unmitigated	T2	T2L3	T4	**Row**
Construction	Sensitive	Cancer Risk	762349.00	4069999.58	36.73948987	-120.0618295	**Col**		2	3	4	5	4
Construction	Sensitive	Chronic HI	762349.00	4069999.58	36.73948987	-120.0618295			2	3	4	5	7
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	18
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	**3rd Trimester**
	Age Range	**3rd 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 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 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 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 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				
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					T4f					0				
							9.53E-06					1.46E-06					6.89E-07					0.00E+00
					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
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
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
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
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
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
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
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
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
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
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
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
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
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
14	762013	4070357.45	5.15E-07	4.42E-07	1.79E-08	0.00E+00	9.75E-07	7.85E-08	6.81E-08	2.71E-09	0.00E+00	1.49E-07	3.98E-08	2.97E-08	9.82E-10	0.00E+00	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	762036.33	4070358.7	4.14E-07	3.55E-07	1.44E-08	0.00E+00	7.84E-07	6.31E-08	5.48E-08	2.18E-09	0.00E+00	1.20E-07	3.20E-08	2.39E-08	7.90E-10	0.00E+00	5.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	762059.65	4070359.95	3.29E-07	2.82E-07	1.14E-08	0.00E+00	6.23E-07	5.01E-08	4.35E-08	1.73E-09	0.00E+00	9.54E-08	2.54E-08	1.90E-08	6.27E-10	0.00E+00	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	762082.98	4070361.2	2.69E-07	2.31E-07	9.34E-09	0.00E+00	5.09E-07	4.10E-08	3.56E-08	1.42E-09	0.00E+00	7.80E-08	2.08E-08	1.55E-08	5.13E-10	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	761971.48	4070373.34	5.24E-07	4.49E-07	1.82E-08	0.00E+00	9.91E-07	7.98E-08	6.92E-08	2.75E-09	0.00E+00	1.52E-07	4.05E-08	3.02E-08	9.98E-10	0.00E+00	7.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	761937.76	4070357.7	7.17E-07	6.15E-07	2.49E-08	0.00E+00	1.36E-06	1.09E-07	9.48E-08	3.77E-09	0.00E+00	2.08E-07	5.55E-08	4.14E-08	1.37E-09	0.00E+00	9.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	761914.1	4070332.58	9.08E-07	7.79E-07	3.15E-08	0.00E+00	1.72E-06	1.38E-07	1.20E-07	4.78E-09	0.00E+00	2.63E-07	7.02E-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	0.00E+00
21	761900.49	4070297.99	1.11E-06	9.52E-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	6.41E-08	2.12E-09	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	762011.66	4070382.42	3.54E-07	3.04E-07	1.23E-08	0.00E+00	6.70E-07	5.40E-08	4.68E-08	1.86E-09	0.00E+00	1.03E-07	2.74E-08	2.04E-08	6.75E-10	0.00E+00	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	762034.99	4070383.67	2.94E-07	2.52E-07	1.02E-08	0.00E+00	5.56E-07	4.48E-08	3.88E-08	1.55E-09	0.00E+00	8.51E-08	2.27E-08	1.69E-08	5.60E-10	0.00E+00	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	762058.31	4070384.92	2.47E-07	2.12E-07	8.56E-09	0.00E+00	4.67E-07	3.76E-08	3.26E-08	1.30E-09	0.00E+00	7.15E-08	1.91E-08	1.42E-08	4.70E-10	0.00E+00	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	762081.64	4070386.17	2.10E-07	1.80E-07	7.28E-09	0.00E+00	3.97E-07	3.20E-08	2.77E-08	1.10E-09	0.00E+00	6.08E-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
26	761965.93	4070396.35	3.93E-07	3.37E-07	1.36E-08	0.00E+00	7.43E-07	5.98E-08	5.19E-08	2.06E-09	0.00E+00	1.14E-07	3.03E-08	2.26E-08	7.48E-10	0.00E+00	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	761944.85	4070386.58	4.92E-07	4.22E-07	1.71E-08	0.00E+00	9.31E-07	7.50E-08	6.51E-08	2.59E-09	0.00E+00	1.43E-07	3.80E-08	2.84E-08	9.38E-10	0.00E+00	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	761923.78	4070376.8	5.83E-07	5.00E-07	2.03E-08	0.00E+00	1.10E-06	8.89E-08	7.71E-08	3.07E-09	0.00E+00	1.69E-07	4.51E-08	3.37E-08	1.11E-09	0.00E+00	7.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	761894.2	4070345.4	7.77E-07	6.67E-07	2.70E-08	0.00E+00	1.47E-06	1.18E-07	1.03E-07	4.09E-09	0.00E+00	2.25E-07	6.01E-08	4.48E-08	1.48E-09	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	761885.7	4070323.78	8.89E-07	7.62E-07	3.09E-08	0.00E+00	1.68E-06	1.35E-07	1.18E-07	4.68E-09	0.00E+00	2.58E-07	6.87E-08	5.13E-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
31	761877.19	4070302.16	9.91E-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	7.66E-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	0.00E+00
32	761987	4070406.13	3.09E-07	2.65E-07	1.07E-08	0.00E+00	5.85E-07	4.71E-08	4.09E-08	1.63E-09	0.00E+00	8.96E-08	2.39E-08	1.78E-08	5.89E-10	0.00E+00	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	762010.33	4070407.38	2.62E-07	2.25E-07	9.10E-09	0.00E+00	4.96E-07	3.99E-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	0.00E+00
34	762033.65	4070408.63	2.23E-07	1.91E-07	7.74E-09	0.00E+00	4.22E-07	3.40E-08	2.95E-08	1.17E-09	0.00E+00	6.47E-08	1.72E-08	1.29E-08	4.25E-10	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	762056.98	4070409.88	1.92E-07	1.65E-07	6.67E-09	0.00E+00	3.64E-07	2.93E-08	2.54E-08	1.01E-09	0.00E+00	5.57E-08	1.49E-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	0.00E+00
36	762080.3	4070411.13	1.67E-07	1.44E-07	5.81E-09	0.00E+00	3.17E-07	2.55E-08	2.21E-08	8.81E-10	0.00E+00	4.85E-08	1.29E-08	9.66E-09	3.19E-10	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	761965.43	4070421.71	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	8.52E-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
38	761924.97	4070402.94	4.36E-07	3.74E-07	1.51E-08	0.00E+00	8.24E-07	6.64E-08	5.76E-08	2.29E-09	0.00E+00	1.26E-07	3.37E-08	2.51E-08	8.30E-10	0.00E+00	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	761876.34	4070363.41	6.57E-07	5.64E-07	2.28E-08	0.00E+00	1.24E-06	1.00E-07	8.69E-08	3.46E-09	0.00E+00	1.91E-07	5.08E-08	3.79E-08	1.25E-09	0.00E+00	9.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	761860.02	4070321.9	8.38E-07	7.19E-07	2.91E-08	0.00E+00	1.59E-06	1.28E-07	1.11E-07	4.41E-09	0.00E+00	2.43E-07	6.48E-08	4.84E-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
41	762008.99	4070432.35	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
42	762032.31	4070433.6	1.76E-07	1.51E-07	6.12E-09	0.00E+00	3.34E-07	2.69E-08	2.33E-08	9.28E-10	0.00E+00	5.11E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	762055.64	4070434.85	1.55E-07	1.33E-07	5.37E-09	0.00E+00	2.93E-07	2.36E-08	2.04E-08	8.13E-10	0.00E+00	4.48E-08	1.20E-08	8.92E-09	2.95E-10	0.00E+00	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	762078.96	4070436.1	1.37E-07	1.17E-07	4.74E-09	0.00E+00	2.58E-07	2.08E-08	1.81E-08	7.19E-10	0.00E+00	3.96E-08	1.06E-08	7.88E-09	2.60E-10	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	761964.66	4070446.93	2.28E-07	1.95E-07	7.91E-09	0.00E+00	4.31E-07	3.47E-08	3.01E-08	1.20E-09	0.00E+00	6.61E-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	0.00E+00
46	761925.32	4070428.68	3.32E-07	2.85E-07	1.15E-08	0.00E+00	6.28E-07	5.06E-08	4.39E-08	1.75E-09	0.00E+00	9.63E-08	2.57E-08	1.92E-08	6.33E-10	0.00E+00	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	761885.98	4070410.43	4.43E-07	3.80E-07	1.54E-08	0.00E+00	8.38E-07	6.75E-08	5.86E-08	2.33E-09	0.00E+00	1.28E-07	3.42E-08	2.56E-08	8.44E-10	0.00E+00	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	761858.37	4070381.13	5.67E-07	4.87E-07	1.97E-08	0.00E+00	1.07E-06	8.65E-08	7.50E-08	2.98E-09	0.00E+00	1.64E-07	4.39E-08	3.27E-08	1.08E-09	0.00E+00	7.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	761842.5	4070340.77	7.21E-07	6.18E-07	2.50E-08	0.00E+00	1.36E-06	1.10E-07	9.53E-08	3.79E-09	0.00E+00	2.09E-07	5.57E-08	4.16E-08	1.37E-09	0.00E+00	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	761826.63	4070300.41	8.72E-07	7.47E-07	3.03E-08	0.00E+00	1.65E-06	1.33E-07	1.15E-07	4.59E-09	0.00E+00	2.53E-07	6.74E-08	5.03E-08	1.66E-09	0.00E+00	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	762007.65	4070457.31	1.64E-07	1.40E-07	5.68E-09	0.00E+00	3.10E-07	2.49E-08	2.16E-08	8.61E-10	0.00E+00	4.74E-08	1.27E-08	9.44E-09	3.12E-10	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	762030.98	4070458.56	1.44E-07	1.23E-07	4.99E-09	0.00E+00	2.72E-07	2.19E-08	1.90E-08	7.56E-10	0.00E+00	4.16E-08	1.11E-08	8.29E-09	2.74E-10	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	762054.3	4070459.81	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	7.34E-09	2.43E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	762077.63	4070461.06	1.14E-07	9.74E-08	3.94E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.97E-10	0.00E+00	3.29E-08	8.78E-09	6.55E-09	2.17E-10	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	761963.72	4070472.08	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	5.28E-08	1.41E-08	1.05E-08	3.47E-10	0.00E+00	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	761925.18	4070454.21	2.59E-07	2.22E-07	9.00E-09	0.00E+00	4.91E-07	3.95E-08	3.43E-08	1.36E-09	0.00E+00	7.52E-08	2.00E-08	1.50E-08	4.94E-10	0.00E+00	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	761886.65	4070436.33	3.51E-07	3.01E-07	1.22E-08	0.00E+00	6.64E-07	5.35E-08	4.64E-08	1.85E-09	0.00E+00	1.02E-07	2.71E-08	2.03E-08	6.69E-10	0.00E+00	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	761840.34	4070398.68	4.97E-07	4.26E-07	1.72E-08	0.00E+00	9.40E-07	7.57E-08	6.57E-08	2.61E-09	0.00E+00	1.44E-07	3.84E-08	2.87E-08	9.47E-10	0.00E+00	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	761824.79	4070359.15	6.27E-07	5.38E-07	2.18E-08	0.00E+00	1.19E-06	9.56E-08	8.29E-08	3.30E-09	0.00E+00	1.82E-07	4.85E-08	3.62E-08	1.20E-09	0.00E+00	8.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	761809.24	4070319.61	7.54E-07	6.47E-07	2.62E-08	0.00E+00	1.43E-06	1.15E-07	9.97E-08	3.97E-09	0.00E+00	2.19E-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	0.00E+00
61	762006.31	4070482.27	1.35E-07	1.16E-07	4.68E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.09E-10	0.00E+00	3.90E-08	1.04E-08	7.77E-09	2.57E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	762029.64	4070483.52	1.19E-07	1.02E-07	4.14E-09	0.00E+00	2.26E-07	1.82E-08	1.58E-08	6.28E-10	0.00E+00	3.46E-08	9.23E-09	6.89E-09	2.28E-10	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	762052.96	4070484.77	1.07E-07	9.15E-08	3.70E-09	0.00E+00	2.02E-07	1.63E-08	1.41E-08	5.61E-10	0.00E+00	3.09E-08	8.24E-09	6.15E-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
64	762076.29	4070486.02	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	0.00E+00
65	761959.24	4070521.17	1.27E-07	1.09E-07	4.40E-09	0.00E+00	2.40E-07	1.93E-08	1.68E-08	6.67E-10	0.00E+00	3.67E-08	9.80E-09	7.31E-09	2.42E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	761938.16	4070511.4	1.50E-07	1.29E-07	5.22E-09	0.00E+00	2.85E-07	2.29E-08	1.99E-08	7.92E-10	0.00E+00	4.36E-08	1.16E-08	8.68E-09	2.87E-10	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	761917.09	4070501.62	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	0.00E+00
68	761896.01	4070491.84	2.12E-07	1.82E-07	7.35E-09	0.00E+00	4.01E-07	3.23E-08	2.80E-08	1.11E-09	0.00E+00	6.14E-08	1.64E-08	1.22E-08	4.04E-10	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	761874.94	4070482.06	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	0.00E+00
70	761853.86	4070472.29	2.84E-07	2.43E-07	9.84E-09	0.00E+00	5.37E-07	4.32E-08	3.75E-08	1.49E-09	0.00E+00	8.22E-08	2.19E-08	1.64E-08	5.41E-10	0.00E+00	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	761832.79	4070462.51	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	0.00E+00
72	761803.21	4070431.11	4.04E-07	3.46E-07	1.40E-08	0.00E+00	7.64E-07	6.15E-08	5.34E-08	2.12E-09	0.00E+00	1.17E-07	3.12E-08	2.33E-08	7.69E-10	0.00E+00	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	761794.71	4070409.49	4.57E-07	3.92E-07	1.59E-08	0.00E+00	8.65E-07	6.96E-08	6.04E-08	2.40E-09	0.00E+00	1.32E-07	3.53E-08	2.64E-08	8.71E-10	0.00E+00	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	761786.21	4070387.87	5.10E-07	4.37E-07	1.77E-08	0.00E+00	9.64E-07	7.77E-08	6.74E-08	2.68E-09	0.00E+00	1.48E-07	3.94E-08	2.94E-08	9.72E-10	0.00E+00	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	761777.71	4070366.25	5.61E-07	4.81E-07	1.95E-08	0.00E+00	1.06E-06	8.55E-08	7.42E-08	2.95E-09	0.00E+00	1.63E-07	4.34E-08	3.24E-08	1.07E-09	0.00E+00	7.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	761769.2	4070344.63	6.11E-07	5.24E-07	2.12E-08	0.00E+00	1.16E-06	9.31E-08	8.08E-08	3.21E-09	0.00E+00	1.77E-07	4.72E-08	3.52E-08	1.16E-09	0.00E+00	8.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	761760.7	4070323.01	6.57E-07	5.63E-07	2.28E-08	0.00E+00	1.24E-06	1.00E-07	8.68E-08	3.46E-09	0.00E+00	1.90E-07	5.08E-08	3.79E-08	1.25E-09	0.00E+00	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	761752.2	4070301.39	6.95E-07	5.96E-07	2.41E-08	0.00E+00	1.32E-06	1.06E-07	9.19E-08	3.66E-09	0.00E+00	2.01E-07	5.37E-08	4.01E-08	1.32E-09	0.00E+00	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	761980.31	4070530.95	1.07E-07	9.21E-08	3.73E-09	0.00E+00	2.03E-07	1.64E-08	1.42E-08	5.65E-10	0.00E+00	3.11E-08	8.30E-09	6.20E-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
80	762003.64	4070532.2	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	7.42E-09	5.54E-09	1.83E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	762026.96	4070533.45	8.64E-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
82	762050.29	4070534.7	7.82E-08	6.71E-08	2.72E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.12E-10	0.00E+00	2.27E-08	6.05E-09	4.51E-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
83	762073.61	4070535.95	7.13E-08	6.11E-08	2.47E-09	0.00E+00	1.35E-07	1.09E-08	9.42E-09	3.75E-10	0.00E+00	2.07E-08	5.51E-09	4.11E-09	1.36E-10	0.00E+00	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	761957.4	4070571.49	9.15E-08	7.85E-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
85	761916.94	4070552.72	1.23E-07	1.06E-07	4.27E-09	0.00E+00	2.33E-07	1.88E-08	1.63E-08	6.48E-10	0.00E+00	3.57E-08	9.52E-09	7.11E-09	2.35E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	761876.48	4070533.95	1.66E-07	1.42E-07	5.76E-09	0.00E+00	3.14E-07	2.53E-08	2.20E-08	8.74E-10	0.00E+00	4.81E-08	1.28E-08	9.58E-09	3.17E-10	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	761836.02	4070515.18	2.17E-07	1.86E-07	7.52E-09	0.00E+00	4.10E-07	3.30E-08	2.87E-08	1.14E-09	0.00E+00	6.28E-08	1.68E-08	1.25E-08	4.13E-10	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	761795.55	4070496.4	2.69E-07	2.30E-07	9.33E-09	0.00E+00	5.09E-07	4.10E-08	3.55E-08	1.41E-09	0.00E+00	7.79E-08	2.08E-08	1.55E-08	5.12E-10	0.00E+00	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	761767.16	4070466.26	3.31E-07	2.84E-07	1.15E-08	0.00E+00	6.27E-07	5.05E-08	4.38E-08	1.74E-09	0.00E+00	9.61E-08	2.56E-08	1.91E-08	6.32E-10	0.00E+00	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	761750.83	4070424.75	4.10E-07	3.51E-07	1.42E-08	0.00E+00	7.75E-07	6.24E-08	5.41E-08	2.15E-09	0.00E+00	1.19E-07	3.17E-08	2.36E-08	7.81E-10	0.00E+00	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	761734.51	4070383.24	4.83E-07	4.15E-07	1.68E-08	0.00E+00	9.15E-07	7.37E-08	6.39E-08	2.54E-09	0.00E+00	1.40E-07	3.74E-08	2.79E-08	9.22E-10	0.00E+00	6.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	761718.18	4070341.73	5.45E-07	4.68E-07	1.89E-08	0.00E+00	1.03E-06	8.31E-08	7.21E-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	0.00E+00
93	761701.86	4070300.22	5.77E-07	4.95E-07	2.00E-08	0.00E+00	1.09E-06	8.80E-08	7.63E-08	3.04E-09	0.00E+00	1.67E-07	4.46E-08	3.33E-08	1.10E-09	0.00E+00	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	762000.96	4070582.13	7.20E-08	6.18E-08	2.50E-09	0.00E+00	1.36E-07	1.10E-08	9.52E-09	3.79E-10	0.00E+00	2.09E-08	5.57E-09	4.16E-09	1.37E-10	0.00E+00	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	762024.29	4070583.38	6.55E-08	5.62E-08	2.27E-09	0.00E+00	1.24E-07	9.98E-09	8.66E-09	3.45E-10	0.00E+00	1.90E-08	5.06E-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	0.00E+00
96	762047.61	4070584.63	6.01E-08	5.15E-08	2.09E-09	0.00E+00	1.14E-07	9.16E-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	0.00E+00
97	762070.94	4070585.88	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
98	761955.29	4070621.68	6.92E-08	5.94E-08	2.40E-09	0.00E+00	1.31E-07	1.05E-08	9.15E-09	3.64E-10	0.00E+00	2.01E-08	5.35E-09	3.99E-09	1.32E-10	0.00E+00	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	761915.95	4070603.43	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
100	761876.61	4070585.18	1.18E-07	1.01E-07	4.09E-09	0.00E+00	2.23E-07	1.80E-08	1.56E-08	6.20E-10	0.00E+00	3.42E-08	9.11E-09	6.80E-09	2.25E-10	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	761837.27	4070566.93	1.53E-07	1.31E-07	5.30E-09	0.00E+00	2.89E-07	2.33E-08	2.02E-08	8.04E-10	0.00E+00	4.43E-08	1.18E-08	8.81E-09	2.91E-10	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	761797.93	4070548.68	1.92E-07	1.65E-07	6.66E-09	0.00E+00	3.63E-07	2.93E-08	2.54E-08	1.01E-09	0.00E+00	5.57E-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	0.00E+00
103	761758.6	4070530.43	2.32E-07	1.99E-07	8.04E-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	1.34E-08	4.42E-10	0.00E+00	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	761730.99	4070501.12	2.79E-07	2.39E-07	9.68E-09	0.00E+00	5.28E-07	4.25E-08	3.69E-08	1.47E-09	0.00E+00	8.09E-08	2.16E-08	1.61E-08	5.32E-10	0.00E+00	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	761715.12	4070460.76	3.38E-07	2.90E-07	1.17E-08	0.00E+00	6.39E-07	5.15E-08	4.47E-08	1.78E-09	0.00E+00	9.79E-08	2.61E-08	1.95E-08	6.44E-10	0.00E+00	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	761699.25	4070420.41	3.93E-07	3.37E-07	1.36E-08	0.00E+00	7.44E-07	5.99E-08	5.20E-08	2.07E-09	0.00E+00	1.14E-07	3.04E-08	2.27E-08	7.49E-10	0.00E+00	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	761683.38	4070380.05	4.39E-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	0.00E+00
108	761667.5	4070339.69	4.66E-07	3.99E-07	1.62E-08	0.00E+00	8.81E-07	7.10E-08	6.16E-08	2.45E-09	0.00E+00	1.35E-07	3.60E-08	2.69E-08	8.88E-10	0.00E+00	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	761651.63	4070299.33	4.69E-07	4.02E-07	1.63E-08	0.00E+00	8.87E-07	7.14E-08	6.19E-08	2.47E-09	0.00E+00	1.36E-07	3.62E-08	2.70E-08	8.93E-10	0.00E+00	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	761998.29	4070632.06	5.60E-08	4.80E-08	1.94E-09	0.00E+00	1.06E-07	8.54E-09	7.41E-09	2.95E-10	0.00E+00	1.62E-08	4.33E-09	3.23E-09	1.07E-10	0.00E+00	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	762021.61	4070633.31	5.15E-08	4.42E-08	1.79E-09	0.00E+00	9.75E-08	7.85E-09	6.81E-09	2.71E-10	0.00E+00	1.49E-08	3.98E-09	2.97E-09	9.82E-11	0.00E+00	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	762044.94	4070634.56	4.77E-08	4.09E-08	1.66E-09	0.00E+00	9.03E-08	7.27E-09	6.31E-09	2.51E-10	0.00E+00	1.38E-08	3.69E-09	2.75E-09	9.09E-11	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	762068.26	4070635.81	4.44E-08	3.80E-08	1.54E-09	0.00E+00	8.40E-08	6.76E-09	5.87E-09	2.33E-10	0.00E+00	1.29E-08	3.43E-09	2.56E-09	8.46E-11	0.00E+00	6.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	761951.53	4070671.11	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+00	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	761930.78	4070661.48	6.16E-08	5.28E-08	2.14E-09	0.00E+00	1.17E-07	9.39E-09	8.15E-09	3.24E-10	0.00E+00	1.79E-08	4.76E-09	3.55E-09	1.17E-10	0.00E+00	8.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	761910.03	4070651.86	6.99E-08	5.99E-08	2.43E-09	0.00E+00	1.32E-07	1.07E-08	9.24E-09	3.68E-10	0.00E+00	2.03E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	761889.28	4070642.23	7.99E-08	6.85E-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	4.61E-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
118	761868.53	4070632.6	9.19E-08	7.88E-08	3.19E-09	0.00E+00	1.74E-07	1.40E-08	1.21E-08	4.83E-10	0.00E+00	2.66E-08	7.10E-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	0.00E+00
119	761847.78	4070622.97	1.05E-07	8.99E-08	3.64E-09	0.00E+00	1.98E-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	0.00E+00
120	761827.03	4070613.35	1.19E-07	1.02E-07	4.14E-09	0.00E+00	2.26E-07	1.82E-08	1.58E-08	6.28E-10	0.00E+00	3.46E-08	9.22E-09	6.88E-09	2.27E-10	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	761806.28	4070603.72	1.35E-07	1.16E-07	4.68E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.09E-10	0.00E+00	3.91E-08	1.04E-08	7.77E-09	2.57E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	761785.53	4070594.09	1.51E-07	1.30E-07	5.24E-09	0.00E+00	2.86E-07	2.30E-08	2.00E-08	7.95E-10	0.00E+00	4.38E-08	1.17E-08	8.71E-09	2.88E-10	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	761764.78	4070584.47	1.68E-07	1.44E-07	5.83E-09	0.00E+00	3.18E-07	2.56E-08	2.22E-08	8.83E-10	0.00E+00	4.87E-08	1.30E-08	9.68E-09	3.20E-10	0.00E+00	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	761744.03	4070574.84	1.85E-07	1.58E-07	6.41E-09	0.00E+00	3.50E-07	2.82E-08	2.44E-08	9.72E-10	0.00E+00	5.36E-08	1.43E-08	1.07E-08	3.52E-10	0.00E+00	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	761723.28	4070565.21	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	1.56E-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	0.00E+00
126	761694.16	4070534.3	2.41E-07	2.06E-07	8.35E-09	0.00E+00	4.55E-07	3.67E-08	3.18E-08	1.27E-09	0.00E+00	6.97E-08	1.86E-08	1.39E-08	4.59E-10	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	3.26E-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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	0.00E+00	0.00E+00
170	761756.19	4070682.82	1.02E-07	8.73E-08	3.53E-09	0.00E+00	1.93E-07	1.55E-08	1.35E-08	5.36E-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	0.00E+00
171	761735.11	4070673.04	1.12E-07	9.61E-08	3.89E-09	0.00E+00	2.12E-07	1.71E-08	1.48E-08	5.89E-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	0.00E+00
172	761714.04	4070663.26	1.23E-07	1.06E-07	4.29E-09	0.00E+00	2.34E-07	1.88E-08	1.63E-08	6.50E-10	0.00E+00	3.58E-08	9.54E-09	7.12E-09	2.35E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	761692.96	4070653.49	1.35E-07	1.16E-07	4.68E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.09E-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
174	761671.89	4070643.71	1.45E-07	1.25E-07	5.05E-09	0.00E+00	2.75E-07	2.22E-08	1.92E-08	7.65E-10	0.00E+00	4.22E-08	1.12E-08	8.39E-09	2.77E-10	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	761650.82	4070633.93	1.56E-07	1.34E-07	5.42E-09	0.00E+00	2.95E-07	2.38E-08	2.06E-08	8.21E-10	0.00E+00	4.52E-08	1.21E-08	9.00E-09	2.97E-10	0.00E+00	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	761621.24	4070602.53	1.83E-07	1.57E-07	6.37E-09	0.00E+00	3.47E-07	2.80E-08	2.43E-08	9.65E-10	0.00E+00	5.32E-08	1.42E-08	1.06E-08	3.50E-10	0.00E+00	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	761612.74	4070580.91	2.00E-07	1.71E-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	0.00E+00
178	761604.23	4070559.29	2.16E-07	1.85E-07	7.49E-09	0.00E+00	4.08E-07	3.29E-08	2.85E-08	1.13E-09	0.00E+00	6.25E-08	1.67E-08	1.24E-08	4.11E-10	0.00E+00	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	761595.73	4070537.67	2.31E-07	1.98E-07	8.00E-09	0.00E+00	4.36E-07	3.51E-08	3.05E-08	1.21E-09	0.00E+00	6.68E-08	1.78E-08	1.33E-08	4.40E-10	0.00E+00	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	761587.23	4070516.05	2.44E-07	2.10E-07	8.49E-09	0.00E+00	4.63E-07	3.73E-08	3.23E-08	1.29E-09	0.00E+00	7.09E-08	1.89E-08	1.41E-08	4.66E-10	0.00E+00	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	761578.73	4070494.43	2.58E-07	2.21E-07	8.95E-09	0.00E+00	4.88E-07	3.93E-08	3.41E-08	1.36E-09	0.00E+00	7.47E-08	1.99E-08	1.49E-08	4.92E-10	0.00E+00	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	761570.22	4070472.81	2.70E-07	2.32E-07	9.37E-09	0.00E+00	5.11E-07	4.12E-08	3.57E-08	1.42E-09	0.00E+00	7.83E-08	2.09E-08	1.56E-08	5.15E-10	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	761561.72	4070451.19	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	0.00E+00
184	761553.22	4070429.57	2.85E-07	2.45E-07	9.90E-09	0.00E+00	5.40E-07	4.35E-08	3.77E-08	1.50E-09	0.00E+00	8.27E-08	2.20E-08	1.65E-08	5.44E-10	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	761544.72	4070407.95	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	0.00E+00
186	761536.21	4070386.33	2.87E-07	2.46E-07	9.97E-09	0.00E+00	5.43E-07	4.38E-08	3.80E-08	1.51E-09	0.00E+00	8.32E-08	2.22E-08	1.66E-08	5.47E-10	0.00E+00	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	761527.71	4070364.71	2.83E-07	2.43E-07	9.84E-09	0.00E+00	5.36E-07	4.32E-08	3.75E-08	1.49E-09	0.00E+00	8.21E-08	2.19E-08	1.63E-08	5.40E-10	0.00E+00	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	761519.21	4070343.09	2.78E-07	2.38E-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
189	761510.7	4070321.47	2.72E-07	2.33E-07	9.43E-09	0.00E+00	5.14E-07	4.14E-08	3.59E-08	1.43E-09	0.00E+00	7.87E-08	2.10E-08	1.57E-08	5.18E-10	0.00E+00	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	761502.2	4070299.85	2.65E-07	2.27E-07	9.19E-09	0.00E+00	5.01E-07	4.03E-08	3.50E-08	1.39E-09	0.00E+00	7.67E-08	2.05E-08	1.53E-08	5.05E-10	0.00E+00	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	761966.93	4070780.59	3.34E-08	2.87E-08	1.16E-09	0.00E+00	6.33E-08	5.10E-09	4.42E-09	1.76E-10	0.00E+00	9.69E-09	2.59E-09	1.93E-09	6.38E-11	0.00E+00	4.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	761990.26	4070781.84	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	0.00E+00	0.00E+00
193	762013.58	4070783.09	2.94E-08	2.52E-08	1.02E-09	0.00E+00	5.56E-08	4.48E-09	3.88E-09	1.55E-10	0.00E+00	8.52E-09	2.27E-09	1.70E-09	5.60E-11	0.00E+00	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	762036.91	4070784.34	2.77E-08	2.38E-08	9.62E-10	0.00E+00	5.24E-08	4.22E-09	3.66E-09	1.46E-10	0.00E+00	8.03E-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	0.00E+00
195	762060.23	4070785.59	2.62E-08	2.25E-08	9.11E-10	0.00E+00	4.97E-08	4.00E-09	3.47E-09	1.38E-10	0.00E+00	7.61E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	761943.65	4070820.96	3.11E-08	2.66E-08	1.08E-09	0.00E+00	5.88E-08	4.73E-09	4.11E-09	1.63E-10	0.00E+00	9.01E-09	2.40E-09	1.79E-09	5.92E-11	0.00E+00	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	761923.05	4070811.4	3.40E-08	2.92E-08	1.18E-09	0.00E+00	6.44E-08	5.18E-09	4.50E-09	1.79E-10	0.00E+00	9.86E-09	2.63E-09	1.96E-09	6.48E-11	0.00E+00	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	761902.44	4070801.84	3.74E-08	3.21E-08	1.30E-09	0.00E+00	7.08E-08	5.70E-09	4.95E-09	1.97E-10	0.00E+00	1.09E-08	2.89E-09	2.16E-09	7.14E-11	0.00E+00	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	761881.83	4070792.28	4.14E-08	3.55E-08	1.44E-09	0.00E+00	7.84E-08	6.31E-09	5.47E-09	2.18E-10	0.00E+00	1.20E-08	3.20E-09	2.39E-09	7.89E-11	0.00E+00	5.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	761861.23	4070782.72	4.60E-08	3.95E-08	1.60E-09	0.00E+00	8.71E-08	7.01E-09	6.08E-09	2.42E-10	0.00E+00	1.33E-08	3.56E-09	2.65E-09	8.77E-11	0.00E+00	6.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	761840.62	4070773.16	5.13E-08	4.40E-08	1.78E-09	0.00E+00	9.71E-08	7.82E-09	6.79E-09	2.70E-10	0.00E+00	1.49E-08	3.97E-09	2.96E-09	9.78E-11	0.00E+00	7.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	761820.01	4070763.6	5.73E-08	4.91E-08	1.99E-09	0.00E+00	1.08E-07	8.73E-09	7.58E-09	3.02E-10	0.00E+00	1.66E-08	4.43E-09	3.31E-09	1.09E-10	0.00E+00	7.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	761799.41	4070754.04	6.40E-08	5.49E-08	2.22E-09	0.00E+00	1.21E-07	9.76E-09	8.47E-09	3.37E-10	0.00E+00	1.86E-08	4.95E-09	3.69E-09	1.22E-10	0.00E+00	8.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	761778.8	4070744.48	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	0.00E+00
205	761758.2	4070734.92	7.94E-08	6.81E-08	2.76E-09	0.00E+00	1.50E-07	1.21E-08	1.05E-08	4.18E-10	0.00E+00	2.30E-08	6.14E-09	4.58E-09	1.51E-10	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	761737.59	4070725.36	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
207	761716.98	4070715.8	9.60E-08	8.23E-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	7.42E-09	5.54E-09	1.83E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	761696.38	4070706.24	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	0.00E+00
209	761675.77	4070696.68	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	0.00E+00
210	761655.17	4070687.12	1.23E-07	1.06E-07	4.28E-09	0.00E+00	2.33E-07	1.88E-08	1.63E-08	6.49E-10	0.00E+00	3.58E-08	9.53E-09	7.12E-09	2.35E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	761634.56	4070677.56	1.33E-07	1.14E-07	4.60E-09	0.00E+00	2.51E-07	2.02E-08	1.75E-08	6.97E-10	0.00E+00	3.84E-08	1.02E-08	7.64E-09	2.53E-10	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	761613.95	4070668	1.42E-07	1.22E-07	4.92E-09	0.00E+00	2.68E-07	2.16E-08	1.87E-08	7.46E-10	0.00E+00	4.11E-08	1.10E-08	8.18E-09	2.70E-10	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	761585.03	4070637.3	1.64E-07	1.40E-07	5.68E-09	0.00E+00	3.10E-07	2.49E-08	2.16E-08	8.61E-10	0.00E+00	4.74E-08	1.27E-08	9.44E-09	3.12E-10	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	761576.72	4070616.16	1.77E-07	1.52E-07	6.15E-09	0.00E+00	3.35E-07	2.70E-08	2.34E-08	9.32E-10	0.00E+00	5.14E-08	1.37E-08	1.02E-08	3.38E-10	0.00E+00	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	761568.41	4070595.02	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	0.00E+00
216	761560.09	4070573.88	2.03E-07	1.74E-07	7.03E-09	0.00E+00	3.83E-07	3.09E-08	2.68E-08	1.07E-09	0.00E+00	5.87E-08	1.57E-08	1.17E-08	3.86E-10	0.00E+00	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	761551.78	4070552.74	2.14E-07	1.83E-07	7.41E-09	0.00E+00	4.04E-07	3.25E-08	2.82E-08	1.12E-09	0.00E+00	6.19E-08	1.65E-08	1.23E-08	4.07E-10	0.00E+00	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	761543.46	4070531.6	2.24E-07	1.92E-07	7.76E-09	0.00E+00	4.23E-07	3.41E-08	2.96E-08	1.18E-09	0.00E+00	6.48E-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
219	761535.15	4070510.46	2.32E-07	1.99E-07	8.07E-09	0.00E+00	4.40E-07	3.54E-08	3.07E-08	1.22E-09	0.00E+00	6.74E-08	1.80E-08	1.34E-08	4.43E-10	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	761526.84	4070489.32	2.40E-07	2.06E-07	8.33E-09	0.00E+00	4.54E-07	3.66E-08	3.17E-08	1.26E-09	0.00E+00	6.95E-08	1.85E-08	1.38E-08	4.57E-10	0.00E+00	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	761518.52	4070468.18	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	0.00E+00
222	761510.21	4070447.04	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	0.00E+00
223	761501.9	4070425.9	2.52E-07	2.16E-07	8.74E-09	0.00E+00	4.76E-07	3.84E-08	3.33E-08	1.32E-09	0.00E+00	7.30E-08	1.95E-08	1.45E-08	4.80E-10	0.00E+00	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	761493.58	4070404.76	2.51E-07	2.16E-07	8.72E-09	0.00E+00	4.76E-07	3.83E-08	3.32E-08	1.32E-09	0.00E+00	7.29E-08	1.94E-08	1.45E-08	4.79E-10	0.00E+00	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	761485.27	4070383.62	2.48E-07	2.13E-07	8.60E-09	0.00E+00	4.69E-07	3.78E-08	3.28E-08	1.30E-09	0.00E+00	7.18E-08	1.92E-08	1.43E-08	4.73E-10	0.00E+00	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	761476.96	4070362.48	2.43E-07	2.08E-07	8.42E-09	0.00E+00	4.59E-07	3.70E-08	3.21E-08	1.28E-09	0.00E+00	7.03E-08	1.87E-08	1.40E-08	4.62E-10	0.00E+00	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	761468.64	4070341.34	2.36E-07	2.02E-07	8.19E-09	0.00E+00	4.46E-07	3.60E-08	3.12E-08	1.24E-09	0.00E+00	6.84E-08	1.82E-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	0.00E+00
228	761460.33	4070320.2	2.29E-07	1.97E-07	7.95E-09	0.00E+00	4.34E-07	3.49E-08	3.03E-08	1.21E-09	0.00E+00	6.64E-08	1.77E-08	1.32E-08	4.37E-10	0.00E+00	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	761452.01	4070299.06	2.22E-07	1.90E-07	7.70E-09	0.00E+00	4.20E-07	3.38E-08	2.93E-08	1.17E-09	0.00E+00	6.43E-08	1.71E-08	1.28E-08	4.23E-10	0.00E+00	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	761964.26	4070830.52	2.85E-08	2.45E-08	9.90E-10	0.00E+00	5.40E-08	4.35E-09	3.77E-09	1.50E-10	0.00E+00	8.27E-09	2.21E-09	1.65E-09	5.44E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	761987.58	4070831.77	2.68E-08	2.30E-08	9.31E-10	0.00E+00	5.08E-08	4.09E-09	3.55E-09	1.41E-10	0.00E+00	7.78E-09	2.07E-09	1.55E-09	5.12E-11	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	762010.91	4070833.02	2.53E-08	2.17E-08	8.80E-10	0.00E+00	4.80E-08	3.86E-09	3.35E-09	1.33E-10	0.00E+00	7.35E-09	1.96E-09	1.46E-09	4.83E-11	0.00E+00	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	762034.23	4070834.27	2.40E-08	2.06E-08	8.33E-10	0.00E+00	4.54E-08	3.66E-09	3.17E-09	1.26E-10	0.00E+00	6.96E-09	1.86E-09	1.39E-09	4.58E-11	0.00E+00	3.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	762057.56	4070835.52	2.27E-08	1.94E-08	7.87E-10	0.00E+00	4.29E-08	3.46E-09	3.00E-09	1.19E-10	0.00E+00	6.57E-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	0.00E+00
235	761941.35	4070871.06	2.66E-08	2.28E-08	9.24E-10	0.00E+00	5.04E-08	4.06E-09	3.52E-09	1.40E-10	0.00E+00	7.72E-09	2.06E-09	1.54E-09	5.07E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	761900.89	4070852.29	3.15E-08	2.70E-08	1.09E-09	0.00E+00	5.96E-08	4.80E-09	4.17E-09	1.66E-10	0.00E+00	9.13E-09	2.44E-09	1.82E-09	6.01E-11	0.00E+00	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	761860.42	4070833.52	3.79E-08	3.25E-08	1.32E-09	0.00E+00	7.18E-08	5.78E-09	5.02E-09	2.00E-10	0.00E+00	1.10E-08	2.93E-09	2.19E-09	7.23E-11	0.00E+00	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	761819.96	4070814.75	4.63E-08	3.97E-08	1.61E-09	0.00E+00	8.77E-08	7.06E-09	6.13E-09	2.44E-10	0.00E+00	1.34E-08	3.58E-09	2.67E-09	8.83E-11	0.00E+00	6.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	761779.5	4070795.97	5.70E-08	4.88E-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	0.00E+00
240	761739.04	4070777.2	6.97E-08	5.98E-08	2.42E-09	0.00E+00	1.32E-07	1.06E-08	9.21E-09	3.67E-10	0.00E+00	2.02E-08	5.39E-09	4.02E-09	1.33E-10	0.00E+00	9.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	761698.57	4070758.43	8.36E-08	7.17E-08	2.90E-09	0.00E+00	1.58E-07	1.27E-08	1.11E-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	0.00E+00
242	761658.11	4070739.65	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	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	761617.65	4070720.88	1.14E-07	9.77E-08	3.95E-09	0.00E+00	2.15E-07	1.74E-08	1.51E-08	5.99E-10	0.00E+00	3.30E-08	8.80E-09	6.57E-09	2.17E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	761577.18	4070702.11	1.29E-07	1.11E-07	4.47E-09	0.00E+00	2.44E-07	1.96E-08	1.70E-08	6.78E-10	0.00E+00	3.74E-08	9.96E-09	7.43E-09	2.46E-10	0.00E+00	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	761548.79	4070671.97	1.47E-07	1.26E-07	5.10E-09	0.00E+00	2.78E-07	2.24E-08	1.94E-08	7.73E-10	0.00E+00	4.26E-08	1.14E-08	8.47E-09	2.80E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	761532.46	4070630.46	1.68E-07	1.44E-07	5.85E-09	0.00E+00	3.19E-07	2.57E-08	2.23E-08	8.86E-10	0.00E+00	4.88E-08	1.30E-08	9.71E-09	3.21E-10	0.00E+00	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	761516.14	4070588.94	1.88E-07	1.61E-07	6.54E-09	0.00E+00	3.56E-07	2.87E-08	2.49E-08	9.91E-10	0.00E+00	5.46E-08	1.46E-08	1.09E-08	3.59E-10	0.00E+00	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	761499.81	4070547.43	2.05E-07	1.76E-07	7.13E-09	0.00E+00	3.89E-07	3.13E-08	2.71E-08	1.08E-09	0.00E+00	5.95E-08	1.59E-08	1.18E-08	3.91E-10	0.00E+00	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	761483.49	4070505.92	2.17E-07	1.86E-07	7.53E-09	0.00E+00	4.10E-07	3.30E-08	2.87E-08	1.14E-09	0.00E+00	6.28E-08	1.68E-08	1.25E-08	4.13E-10	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	761467.16	4070464.41	2.22E-07	1.90E-07	7.69E-09	0.00E+00	4.19E-07	3.38E-08	2.93E-08	1.17E-09	0.00E+00	6.42E-08	1.71E-08	1.28E-08	4.23E-10	0.00E+00	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	761450.84	4070422.9	2.20E-07	1.89E-07	7.64E-09	0.00E+00	4.16E-07	3.35E-08	2.91E-08	1.16E-09	0.00E+00	6.38E-08	1.70E-08	1.27E-08	4.20E-10	0.00E+00	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	761434.51	4070381.39	2.13E-07	1.83E-07	7.40E-09	0.00E+00	4.04E-07	3.25E-08	2.82E-08	1.12E-09	0.00E+00	6.18E-08	1.65E-08	1.23E-08	4.07E-10	0.00E+00	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	761418.19	4070339.88	2.02E-07	1.73E-07	7.02E-09	0.00E+00	3.83E-07	3.08E-08	2.67E-08	1.06E-09	0.00E+00	5.86E-08	1.56E-08	1.17E-08	3.86E-10	0.00E+00	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	761410.03	4070319.12	1.96E-07	1.68E-07	6.80E-09	0.00E+00	3.71E-07	2.99E-08	2.59E-08	1.03E-09	0.00E+00	5.68E-08	1.52E-08	1.13E-08	3.74E-10	0.00E+00	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	761984.91	4070881.7	2.34E-08	2.01E-08	8.12E-10	0.00E+00	4.43E-08	3.56E-09	3.09E-09	1.23E-10	0.00E+00	6.78E-09	1.81E-09	1.35E-09	4.46E-11	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	762008.23	4070882.95	2.22E-08	1.90E-08	7.70E-10	0.00E+00	4.20E-08	3.38E-09	2.93E-09	1.17E-10	0.00E+00	6.43E-09	1.71E-09	1.28E-09	4.23E-11	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

257	762031.56	4070884.2	2.11E-08	1.81E-08	7.33E-10	0.00E+00	4.00E-08	3.22E-09	2.79E-09	1.11E-10	0.00E+00	6.12E-09	1.63E-09	1.22E-09	4.03E-11	0.00E+00	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	762054.88	4070885.45	2.02E-08	1.73E-08	7.00E-10	0.00E+00	3.82E-08	3.07E-09	2.67E-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
259	761935.71	4070970.78	2.06E-08	1.76E-08	7.14E-10	0.00E+00	3.89E-08	3.13E-09	2.72E-09	1.08E-10	0.00E+00	5.96E-09	1.59E-09	1.19E-09	3.92E-11	0.00E+00	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	761915.18	4070961.26	2.20E-08	1.88E-08	7.62E-10	0.00E+00	4.15E-08	3.35E-09	2.90E-09	1.16E-10	0.00E+00	6.36E-09	1.70E-09	1.27E-09	4.19E-11	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	761894.66	4070951.74	2.35E-08	2.01E-08	8.16E-10	0.00E+00	4.45E-08	3.58E-09	3.11E-09	1.24E-10	0.00E+00	6.81E-09	1.82E-09	1.36E-09	4.48E-11	0.00E+00	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	761874.13	4070942.22	2.53E-08	2.17E-08	8.79E-10	0.00E+00	4.79E-08	3.86E-09	3.35E-09	1.33E-10	0.00E+00	7.34E-09	1.96E-09	1.46E-09	4.83E-11	0.00E+00	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	761853.61	4070932.69	2.76E-08	2.37E-08	9.58E-10	0.00E+00	5.22E-08	4.21E-09	3.65E-09	1.45E-10	0.00E+00	8.00E-09	2.13E-09	1.59E-09	5.26E-11	0.00E+00	3.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	761833.08	4070923.17	3.03E-08	2.60E-08	1.05E-09	0.00E+00	5.74E-08	4.62E-09	4.01E-09	1.60E-10	0.00E+00	8.79E-09	2.35E-09	1.75E-09	5.78E-11	0.00E+00	4.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	761812.56	4070913.65	3.32E-08	2.84E-08	1.15E-09	0.00E+00	6.27E-08	5.05E-09	4.38E-09	1.74E-10	0.00E+00	9.61E-09	2.56E-09	1.91E-09	6.32E-11	0.00E+00	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	761792.03	4070904.13	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	0.00E+00
267	761771.51	4070894.6	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	3.08E-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	0.00E+00
268	761750.98	4070885.08	4.39E-08	3.77E-08	1.52E-09	0.00E+00	8.31E-08	6.69E-09	5.81E-09	2.31E-10	0.00E+00	1.27E-08	3.39E-09	2.53E-09	8.37E-11	0.00E+00	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	761730.46	4070875.56	4.81E-08	4.13E-08	1.67E-09	0.00E+00	9.11E-08	7.34E-09	6.37E-09	2.53E-10	0.00E+00	1.40E-08	3.72E-09	2.78E-09	9.18E-11	0.00E+00	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	761709.93	4070866.04	5.29E-08	4.54E-08	1.84E-09	0.00E+00	1.00E-07	8.06E-09	6.99E-09	2.78E-10	0.00E+00	1.53E-08	4.09E-09	3.05E-09	1.01E-10	0.00E+00	7.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	761689.41	4070856.52	5.79E-08	4.96E-08	2.01E-09	0.00E+00	1.09E-07	8.81E-09	7.65E-09	3.04E-10	0.00E+00	1.68E-08	4.47E-09	3.34E-09	1.10E-10	0.00E+00	7.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	761668.88	4070846.99	6.29E-08	5.39E-08	2.18E-09	0.00E+00	1.19E-07	9.58E-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	0.00E+00
273	761648.36	4070837.47	6.83E-08	5.86E-08	2.37E-09	0.00E+00	1.29E-07	1.04E-08	9.03E-09	3.59E-10	0.00E+00	1.98E-08	5.28E-09	3.94E-09	1.30E-10	0.00E+00	9.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	761627.83	4070827.95	7.39E-08	6.34E-08	2.57E-09	0.00E+00	1.40E-07	1.13E-08	9.77E-09	3.89E-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
275	761607.31	4070818.43	7.98E-08	6.84E-08	2.77E-09	0.00E+00	1.51E-07	1.22E-08	1.05E-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	0.00E+00
276	761586.79	4070808.9	8.55E-08	7.33E-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	6.61E-09	4.93E-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
277	761566.26	4070799.38	9.12E-08	7.82E-08	3.17E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.80E-10	0.00E+00	2.64E-08	7.05E-09	5.26E-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
278	761545.74	4070789.86	9.66E-08	8.28E-08	3.35E-09	0.00E+00	1.83E-07	1.47E-08	1.28E-08	5.08E-10	0.00E+00	2.80E-08	7.47E-09	5.57E-09	1.84E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	761525.21	4070780.34	1.02E-07	8.77E-08	3.55E-09	0.00E+00	1.94E-07	1.56E-08	1.35E-08	5.38E-10	0.00E+00	2.97E-08	7.91E-09	5.90E-09	1.95E-10	0.00E+00	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	761504.69	4070770.81	1.08E-07	9.24E-08	3.74E-09	0.00E+00	2.04E-07	1.64E-08	1.43E-08	5.67E-10	0.00E+00	3.12E-08	8.33E-09	6.22E-09	2.05E-10	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	761475.88	4070740.23	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	0.00E+00
282	761467.6	4070719.18	1.29E-07	1.11E-07	4.49E-09	0.00E+00	2.45E-07	1.97E-08	1.71E-08	6.80E-10	0.00E+00	3.75E-08	1.00E-08	7.46E-09	2.47E-10	0.00E+00	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	761459.32	4070698.12	1.37E-07	1.18E-07	4.76E-09	0.00E+00	2.59E-07	2.09E-08	1.81E-08	7.21E-10	0.00E+00	3.97E-08	1.06E-08	7.91E-09	2.61E-10	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	761451.04	4070677.07	1.45E-07	1.24E-07	5.03E-09	0.00E+00	2.74E-07	2.21E-08	1.92E-08	7.62E-10	0.00E+00	4.20E-08	1.12E-08	8.36E-09	2.76E-10	0.00E+00	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	761442.76	4070656.01	1.52E-07	1.31E-07	5.29E-09	0.00E+00	2.88E-07	2.32E-08	2.01E-08	8.01E-10	0.00E+00	4.42E-08	1.18E-08	8.79E-09	2.90E-10	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	761434.48	4070634.95	1.59E-07	1.36E-07	5.52E-09	0.00E+00	3.01E-07	2.42E-08	2.10E-08	8.36E-10	0.00E+00	4.61E-08	1.23E-08	9.17E-09	3.03E-10	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	761426.2	4070613.9	1.65E-07	1.41E-07	5.72E-09	0.00E+00	3.12E-07	2.51E-08	2.18E-08	8.67E-10	0.00E+00	4.77E-08	1.27E-08	9.50E-09	3.14E-10	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	761417.92	4070592.84	1.70E-07	1.46E-07	5.90E-09	0.00E+00	3.21E-07	2.59E-08	2.25E-08	8.94E-10	0.00E+00	4.92E-08	1.31E-08	9.80E-09	3.24E-10	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	761409.63	4070571.78	1.74E-07	1.49E-07	6.04E-09	0.00E+00	3.29E-07	2.65E-08	2.30E-08	9.15E-10	0.00E+00	5.04E-08	1.34E-08	1.00E-08	3.32E-10	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	761401.35	4070550.73	1.76E-07	1.51E-07	6.13E-09	0.00E+00	3.34E-07	2.69E-08	2.33E-08	9.28E-10	0.00E+00	5.12E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	761393.07	4070529.67	1.78E-07	1.52E-07	6.17E-09	0.00E+00	3.36E-07	2.71E-08	2.35E-08	9.35E-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	0.00E+00
292	761384.79	4070508.61	1.78E-07	1.52E-07	6.17E-09	0.00E+00	3.36E-07	2.71E-08	2.35E-08	9.35E-10	0.00E+00	5.15E-08	1.37E-08	1.03E-08	3.39E-10	0.00E+00	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	761376.51	4070487.56	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
294	761368.23	4070466.5	1.74E-07	1.50E-07	6.06E-09	0.00E+00	3.30E-07	2.66E-08	2.31E-08	9.18E-10	0.00E+00	5.06E-08	1.35E-08	1.01E-08	3.33E-10	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	761359.95	4070445.45	1.72E-07	1.47E-07	5.96E-09	0.00E+00	3.25E-07	2.61E-08	2.27E-08	9.03E-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	0.00E+00	0.00E+00
296	761351.67	4070424.39	1.68E-07	1.44E-07	5.84E-09	0.00E+00	3.18E-07	2.56E-08	2.22E-08	8.85E-10	0.00E+00	4.87E-08	1.30E-08	9.70E-09	3.21E-10	0.00E+00	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	761343.39	4070403.33	1.64E-07	1.41E-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	0.00E+00
298	761335.11	4070382.28	1.60E-07	1.37E-07	5.54E-09	0.00E+00	3.02E-07	2.43E-08	2.11E-08	8.40E-10	0.00E+00	4.63E-08	1.23E-08	9.21E-09	3.05E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	761326.83	4070361.22	1.56E-07	1.34E-07	5.41E-09	0.00E+00	2.95E-07	2.37E-08	2.06E-08	8.20E-10	0.00E+00	4.52E-08	1.20E-08	8.99E-09	2.97E-10	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	761318.55	4070340.16	1.52E-07	1.30E-07	5.27E-09	0.00E+00	2.88E-07	2.32E-08	2.01E-08	7.99E-10	0.00E+00	4.40E-08	1.17E-08	8.77E-09	2.90E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	761310.26	4070319.11	1.47E-07	1.26E-07	5.12E-09	0.00E+00	2.79E-07	2.25E-08	1.95E-08	7.76E-10	0.00E+00	4.27E-08	1.14E-08	8.51E-09	2.81E-10	0.00E+00	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	761301.98	4070298.05	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	0.00E+00
303	761956.23	4070980.31	1.93E-08	1.65E-08	6.70E-10	0.00E+00	3.65E-08	2.94E-09	2.55E-09	1.02E-10	0.00E+00	5.59E-09	1.49E-09	1.11E-09	3.68E-11	0.00E+00	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	761979.56	4070981.56	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	3.51E-11	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	762002.88	4070982.81	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
306	762026.21	4070984.06	1.69E-08	1.45E-08	5.86E-10	0.00E+00	3.19E-08	2.57E-09	2.23E-09	8.88E-11	0.00E+00	4.89E-09	1.30E-09	9.74E-10	3.22E-11	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	762049.53	4070985.31	1.62E-08	1.39E-08	5.64E-10	0.00E+00	3.07E-08	2.48E-09	2.15E-09	8.55E-11	0.00E+00	4.71E-09	1.26E-09	9.37E-10	3.10E-11	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	761930.13	4071070.54	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	0.00E+00
309	761909.38	4071060.91	1.76E-08	1.51E-08	6.12E-10	0.00E+00	3.34E-08	2.69E-09	2.33E-09	9.28E-11	0.00E+00	5.11E-09	1.36E-09	1.02E-09	3.36E-11	0.00E+00	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	761888.63	4071051.28	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	0.00E+00
311	761867.88	4071041.66	2.01E-08	1.72E-08	6.97E-10	0.00E+00	3.80E-08	3.06E-09	2.65E-09	1.06E-10	0.00E+00	5.82E-09	1.55E-09	1.16E-09	3.83E-11	0.00E+00	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	761847.13	4071032.03	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	0.00E+00
313	761826.38	4071022.4	2.32E-08	1.99E-08	8.05E-10	0.00E+00	4.39E-08	3.53E-09	3.06E-09	1.22E-10	0.00E+00	6.72E-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	0.00E+00
314	761805.63	4071012.77	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	0.00E+00
315	761784.88	4071003.15	2.69E-08	2.31E-08	9.34E-10	0.00E+00	5.09E-08	4.10E-09	3.56E-09	1.42E-10	0.00E+00	7.80E-09	2.08E-09	1.55E-09	5.13E-11	0.00E+00	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	761764.13	4070993.52	2.91E-08	2.50E-08	1.01E-09	0.00E+00	5.51E-08	4.44E-09	3.85E-09	1.53E-10	0.00E+00	8.45E-09	2.25E-09	1.68E-09	5.55E-11	0.00E+00	3.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	761743.38	4070983.89	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	0.00E+00
318	761722.63	4070974.27	3.51E-08	3.01E-08	1.22E-09	0.00E+00	6.64E-08	5.34E-09	4.64E-09	1.85E-10	0.00E+00	1.02E-08	2.71E-09	2.02E-09	6.69E-11	0.00E+00	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	761701.88	4070964.64	3.84E-08	3.29E-08	1.33E-09	0.00E+00	7.26E-08	5.85E-09	5.08E-09	2.02E-10	0.00E+00	1.11E-08	2.97E-09	2.21E-09	7.32E-11	0.00E+00	5.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	761681.13	4070955.01	4.18E-08	3.58E-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	0.00E+00
321	761660.38	4070945.38	4.55E-08	3.90E-08	1.58E-09	0.00E+00	8.61E-08	6.94E-09	6.02E-09	2.39E-10	0.00E+00	1.32E-08	3.52E-09	2.63E-09	8.68E-11	0.00E+00	6.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	761639.63	4070935.76	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
323	761618.87	4070926.13	5.39E-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	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	761598.12	4070916.5	5.83E-08	5.00E-08	2.02E-09	0.00E+00	1.10E-07	8.88E-09	7.70E-09	3.07E-10	0.00E+00	1.69E-08	4.50E-09	3.36E-09	1.11E-10	0.00E+00	7.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	761577.37	4070906.88	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	0.00E+00
326	761556.62	4070897.25	6.71E-08	5.76E-08	2.33E-09	0.00E+00	1.27E-07	1.02E-08	8.88E-09	3.53E-10	0.00E+00	1.95E-08	5.19E-09	3.87E-09	1.28E-10	0.00E+00	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	761535.87	4070887.62	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	0.00E+00
328	761515.12	4070877.99	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	0.00E+00
329	761494.37	4070868.37	8.03E-08	6.89E-08	2.79E-09	0.00E+00	1.52E-07	1.22E-08	1.06E-08	4.23E-10	0.00E+00	2.33E-08	6.21E-09	4.63E-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
330	761473.62	4070858.74	8.44E-08	7.24E-08	2.93E-09	0.00E+00	1.60E-07	1.29E-08	1.12E-08	4.44E-10	0.00E+00	2.45E-08	6.52E-09	4.87E-09	1.61E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	761452.87	4070849.11	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	0.00E+00
332	761432.12	4070839.49	9.21E-08	7.90E-08	3.20E-09	0.00E+00	1.74E-07	1.40E-08	1.22E-08	4.85E-10	0.00E+00	2.67E-08	7.12E-09	5.31E-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
333	761403	4070808.57	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	0.00E+00
334	761394.63	4070787.28	1.09E-07	9.36E-08	3.79E-09	0.00E+00	2.07E-07	1.66E-08	1.44E-08	5.74E-10	0.00E+00	3.16E-08	8.44E-09	6.30E-09	2.08E-10	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	761386.26	4070766	1.15E-07	9.89E-08	4.00E-09	0.00E+00	2.18E-07	1.76E-08	1.53E-08	6.07E-10	0.00E+00	3.34E-08	8.92E-09	6.66E-09	2.20E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	761377.89	4070744.71	1.21E-07	1.04E-07	4.21E-09	0.00E+00	2.30E-07	1.85E-08	1.61E-08	6.39E-10	0.00E+00	3.52E-08	9.39E-09	7.00E-09	2.31E-10	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	761369.51	4070723.42	1.27E-07	1.09E-07	4.41E-09	0.00E+00	2.41E-07	1.94E-08	1.68E-08	6.69E-10	0.00E+00	3.68E-08	9.83E-09	7.33E-09	2.42E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	761361.14	4070702.13	1.32E-07	1.13E-07	4.59E-09	0.00E+00	2.50E-07	2.01E-08	1.75E-08	6.96E-10	0.00E+00	3.83E-08	1.02E-08	7.63E-09	2.52E-10	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	761352.77	4070680.84	1.37E-07	1.17E-07	4.74E-09	0.00E+00	2.58E-07	2.08E-08	1.81E-08	7.19E-10	0.00E+00	3.96E-08	1.06E-08	7.88E-09	2.60E-10	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	761344.4	4070659.56	1.40E-07	1.20E-07	4.87E-09	0.00E+00	2.65E-07	2.14E-08	1.85E-08	7.38E-10	0.00E+00	4.06E-08	1.08E-08	8.09E-09	2.67E-10	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	761336.03	4070638.27	1.43E-07	1.23E-07	4.96E-09	0.00E+00	2.71E-07	2.18E-08	1.89E-08	7.52E-10	0.00E+00	4.15E-08	1.11E-08	8.25E-09	2.73E-10	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	761327.65	4070616.98	1.45E-07	1.25E-07	5.04E-09	0.00E+00	2.75E-07	2.21E-08	1.92E-08	7.64E-10	0.00E+00	4.21E-08	1.12E-08	8.38E-09	2.77E-10	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	761319.28	4070595.69	1.47E-07	1.26E-07	5.09E-09	0.00E+00	2.77E-07	2.23E-08	1.94E-08	7.71E-10	0.00E+00	4.25E-08	1.13E-08	8.45E-09	2.79E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	761310.91	4070574.41	1.47E-07	1.26E-07	5.10E-09	0.00E+00	2.78E-07	2.24E-08	1.94E-08	7.73E-10	0.00E+00	4.26E-08	1.14E-08	8.47E-09	2.80E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	761302.54	4070553.12	1.46E-07	1.25E-07	5.07E-09	0.00E+00	2.76E-07	2.23E-08	1.93E-08	7.69E-10	0.00E+00	4.23E-08	1.13E-08	8.43E-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
346	761294.17	4070531.83	1.45E-07	1.24E-07	5.02E-09	0.00E+00	2.74E-07	2.20E-08	1.91E-08	7.61E-10	0.00E+00	4.19E-08	1.12E-08	8.34E-09	2.76E-10	0.00E+00	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	761285.8	4070510.54	1.43E-07	1.23E-07	4.96E-09	0.00E+00	2.70E-07	2.18E-08	1.89E-08	7.52E-10	0.00E+00	4.14E-08	1.10E-08	8.24E-09	2.72E-10	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	761277.42	4070489.26	1.41E-07	1.21E-07	4.89E-09	0.00E+00	2.67E-07	2.15E-08	1.86E-08	7.42E-10	0.00E+00	4.09E-08	1.09E-08	8.14E-09	2.69E-10	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	761269.05	4070467.97	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.26E-10	0.00E+00	4.00E-08	1.07E-08	7.96E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	761260.68	4070446.68	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
351	761252.31	4070425.39	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
352	761243.94	4070404.1	1.29E-07	1.11E-07	4.49E-09	0.00E+00	2.45E-07	1.97E-08	1.71E-08	6.81E-10	0.00E+00	3.75E-08	1.00E-08	7.47E-09	2.47E-10	0.00E+00	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	761235.56	4070382.82	1.27E-07	1.09E-07	4.40E-09	0.00E+00	2.40E-07	1.93E-08	1.68E-08	6.67E-10	0.00E+00	3.67E-08	9.80E-09	7.31E-09	2.42E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	761227.19	4070361.53	1.24E-07	1.06E-07	4.30E-09	0.00E+00	2.34E-07	1.89E-08	1.64E-08	6.52E-10	0.00E+00	3.59E-08	9.58E-09	7.15E-09	2.36E-10	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	761218.82	4070340.24	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	0.00E+00
356	761210.45	4070318.95	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	0.00E+00
357	761202.08	4070297.67	1.14E-07	9.76E-08	3.95E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.99E-10	0.00E+00	3.30E-08	8.79E-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	0.00E+00
358	761950.88	4071080.16	1.57E-08	1.35E-08	5.45E-10	0.00E+00	2.97E-08	2.39E-09	2.08E-09	8.27E-11	0.00E+00	4.55E-09	1.21E-09	9.06E-10	3.00E-11	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	761974.2	4071081.41	1.51E-08	1.30E-08	5.26E-10	0.00E+00	2.87E-08	2.31E-09	2.00E-09	7.97E-11	0.00E+00	4.39E-09	1.17E-09	8.74E-10	2.89E-11	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	761997.53	4071082.66	1.46E-08	1.25E-08	5.05E-10	0.00E+00	2.75E-08	2.22E-09	1.92E-09	7.66E-11	0.00E+00	4.22E-09	1.13E-09	8.40E-10	2.78E-11	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	762020.85	4071083.91	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	0.00E+00
362	762044.18	4071085.16	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	0.00E+00
363	761924.6	4071170.31	1.39E-08	1.19E-08	4.83E-10	0.00E+00	2.63E-08	2.12E-09	1.84E-09	7.32E-11	0.00E+00	4.04E-09	1.08E-09	8.03E-10	2.65E-11	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	761903.67	4071160.6	1.47E-08	1.26E-08	5.09E-10	0.00E+00	2.78E-08	2.23E-09	1.94E-09	7.72E-11	0.00E+00	4.25E-09	1.13E-09	8.46E-10	2.80E-11	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	761882.74	4071150.89	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	0.00E+00
366	761861.81	4071141.18	1.64E-08	1.40E-08	5.68E-10	0.00E+00	3.09E-08	2.49E-09	2.16E-09	8.60E-11	0.00E+00	4.74E-09	1.26E-09	9.43E-10	3.12E-11	0.00E+00	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	761840.88	4071131.47	1.74E-08	1.49E-08	6.03E-10	0.00E+00	3.29E-08	2.65E-09	2.30E-09	9.14E-11	0.00E+00	5.04E-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	0.00E+00
368	761819.95	4071121.76	1.86E-08	1.59E-08	6.44E-10	0.00E+00	3.51E-08	2.83E-09	2.45E-09	9.77E-11	0.00E+00	5.38E-09	1.44E-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	0.00E+00
369	761799.02	4071112.05	1.98E-08	1.70E-08	6.89E-10	0.00E+00	3.75E-08	3.02E-09	2.62E-09	1.04E-10	0.00E+00	5.75E-09	1.53E-09	1.14E-09	3.78E-11	0.00E+00	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	761778.09	4071102.34	2.13E-08	1.82E-08	7.39E-10	0.00E+00	4.03E-08	3.24E-09	2.81E-09	1.12E-10	0.00E+00	6.17E-09	1.64E-09	1.23E-09	4.06E-11	0.00E+00	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	761757.17	4071092.63	2.28E-08	1.96E-08	7.92E-10	0.00E+00	4.32E-08	3.48E-09	3.02E-09	1.20E-10	0.00E+00	6.61E-09	1.76E-09	1.32E-09	4.35E-11	0.00E+00	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	761736.24	4071082.92	2.45E-08	2.10E-08	8.51E-10	0.00E+00	4.64E-08	3.74E-09	3.24E-09	1.29E-10	0.00E+00	7.11E-09	1.90E-09	1.41E-09	4.68E-11	0.00E+00	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	761715.31	4071073.21	2.66E-08	2.28E-08	9.23E-10	0.00E+00	5.03E-08	4.05E-09	3.51E-09	1.40E-10	0.00E+00	7.70E-09	2.05E-09	1.53E-09	5.07E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	761694.38	4071063.5	2.89E-08	2.48E-08	1.00E-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	0.00E+00
375	761673.45	4071053.79	3.14E-08	2.69E-08	1.09E-09	0.00E+00	5.94E-08	4.79E-09	4.15E-09	1.65E-10	0.00E+00	9.10E-09	2.43E-09	1.81E-09	5.99E-11	0.00E+00	4.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	761652.52	4071044.08	3.41E-08	2.92E-08	1.18E-09	0.00E+00	6.45E-08	5.20E-09	4.51E-09	1.79E-10	0.00E+00	9.88E-09	2.64E-09	1.97E-09	6.50E-11	0.00E+00	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	761631.59	4071034.37	3.70E-08	3.17E-08	1.28E-09	0.00E+00	7.00E-08	5.64E-09	4.89E-09	1.95E-10	0.00E+00	1.07E-08	2.86E-09	2.14E-09	7.06E-11	0.00E+00	5.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	761610.66	4071024.66	3.98E-08	3.41E-08	1.38E-09	0.00E+00	7.53E-08	6.06E-09	5.26E-09	2.09E-10	0.00E+00	1.15E-08	3.08E-09	2.30E-09	7.59E-11	0.00E+00	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	761589.73	4071014.95	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	0.00E+00
380	761568.8	4071005.24	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	0.00E+00
381	761547.87	4070995.53	5.01E-08	4.29E-08	1.74E-09	0.00E+00	9.48E-08	7.63E-09	6.62E-09	2.63E-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	0.00E+00
382	761526.94	4070985.82	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	4.14E-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	0.00E+00
383	761506.02	4070976.11	5.70E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.69E-09	7.54E-09	3.00E-10	0.00E+00	1.65E-08	4.41E-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	0.00E+00
384	761485.09	4070966.4	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	0.00E+00
385	761464.16	4070956.69	6.42E-08	5.51E-08	2.23E-09	0.00E+00	1.22E-07	9.78E-09	8.49E-09	3.38E-10	0.00E+00	1.86E-08	4.96E-09	3.70E-09	1.22E-10	0.00E+00	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	761443.23	4070946.98	6.77E-08	5.81E-08	2.35E-09	0.00E+00	1.28E-07	1.03E-08	8.95E-09	3.56E-10	0.00E+00	1.96E-08	5.23E-09	3.91E-09	1.29E-10	0.00E+00	9.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
414	761135.93	4070383.12	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	0.00E+00
415	761127.48	4070361.65	1.02E-07	8.73E-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	7.87E-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	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	0.00E+00
417	761110.6	4070318.7	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	0.00E+00	0.00E+00
430	761792.65	4071211.43	1.63E-08	1.39E-08	5.64E-10	0.00E+00	3.08E-08	2.48E-09	2.15E-09	8.56E-11	0.00E+00	4.71E-09	1.26E-09	9.38E-10	3.10E-11	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	761771.58	4071201.66	1.73E-08	1.48E-08	6.00E-10	0.00E+00	3.27E-08	2.63E-09	2.29E-09	9.10E-11	0.00E+00	5.01E-09	1.34E-09	9.97E-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
432	761750.51	4071191.88	1.84E-08	1.58E-08	6.40E-10	0.00E+00	3.49E-08	2.81E-09	2.44E-09	9.69E-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
433	761729.43	4071182.1	1.97E-08	1.69E-08	6.83E-10	0.00E+00	3.72E-08	3.00E-09	2.60E-09	1.04E-10	0.00E+00	5.71E-09	1.52E-09	1.14E-09	3.75E-11	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	761708.36	4071172.32	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	0.00E+00
435	761687.28	4071162.55	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	0.00E+00
436	761666.21	4071152.77	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	0.00E+00
437	761645.13	4071142.99	2.62E-08	2.25E-08	9.10E-10	0.00E+00	4.96E-08	3.99E-09	3.47E-09	1.38E-10	0.00E+00	7.60E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	761624.06	4071133.21	2.84E-08	2.44E-08	9.86E-10	0.00E+00	5.38E-08	4.33E-09	3.76E-09	1.49E-10	0.00E+00	8.23E-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	0.00E+00
439	761602.98	4071123.44	3.07E-08	2.63E-08	1.07E-09	0.00E+00	5.81E-08	4.68E-09	4.06E-09	1.61E-10	0.00E+00	8.90E-09	2.37E-09	1.77E-09	5.85E-11	0.00E+00	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	761581.91	4071113.66	3.31E-08	2.84E-08	1.15E-09	0.00E+00	6.27E-08	5.05E-09	4.38E-09	1.74E-10	0.00E+00	9.61E-09	2.56E-09	1.91E-09	6.32E-11	0.00E+00	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	761560.84	4071103.88	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
442	761539.76	4071094.1	3.84E-08	3.30E-08	1.33E-09	0.00E+00	7.27E-08	5.86E-09	5.08E-09	2.02E-10	0.00E+00	1.11E-08	2.97E-09	2.22E-09	7.33E-11	0.00E+00	5.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	761518.69	4071084.33	4.12E-08	3.54E-08	1.43E-09	0.00E+00	7.80E-08	6.28E-09	5.45E-09	2.17E-10	0.00E+00	1.20E-08	3.19E-09	2.38E-09	7.86E-11	0.00E+00	5.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	761497.61	4071074.55	4.41E-08	3.78E-08	1.53E-09	0.00E+00	8.34E-08	6.72E-09	5.83E-09	2.32E-10	0.00E+00	1.28E-08	3.41E-09	2.54E-09	8.40E-11	0.00E+00	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	761476.54	4071064.77	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	8.96E-11	0.00E+00	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	761455.46	4071054.99	4.96E-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	0.00E+00
447	761434.39	4071045.22	5.23E-08	4.48E-08	1.81E-09	0.00E+00	9.89E-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	0.00E+00
448	761413.31	4071035.44	5.51E-08	4.72E-08	1.91E-09	0.00E+00	1.04E-07	8.40E-09	7.28E-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	0.00E+00
449	761392.24	4071025.66	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	0.00E+00
450	761371.17	4071015.88	6.09E-08	5.22E-08	2.11E-09	0.00E+00	1.15E-07	9.28E-09	8.05E-09	3.20E-10	0.00E+00	1.76E-08	4.71E-09	3.51E-09	1.16E-10	0.00E+00	8.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	761350.09	4071006.11	6.34E-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	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	761329.02	4070996.33	6.60E-08	5.66E-08	2.29E-09	0.00E+00	1.25E-07	1.00E-08	8.72E-09	3.47E-10	0.00E+00	1.91E-08	5.10E-09	3.80E-09	1.26E-10	0.00E+00	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	761307.94	4070986.55	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	1.98E-08	5.29E-09	3.95E-09	1.30E-10	0.00E+00	9.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	761286.87	4070976.77	7.09E-08	6.08E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.37E-09	3.73E-10	0.00E+00	2.05E-08	5.48E-09	4.09E-09	1.35E-10	0.00E+00	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	761257.29	4070945.38	7.70E-08	6.61E-08	2.67E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.05E-10	0.00E+00	2.23E-08	5.95E-09	4.44E-09	1.47E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	761248.79	4070923.76	8.09E-08	6.94E-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	4.67E-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
457	761240.28	4070902.14	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	0.00E+00
458	761231.78	4070880.51	8.87E-08	7.60E-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	6.85E-09	5.12E-09	1.69E-10	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	761223.28	4070858.89	9.23E-08	7.92E-08	3.20E-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
460	761214.78	4070837.27	9.57E-08	8.21E-08	3.32E-09	0.00E+00	1.81E-07	1.46E-08	1.27E-08	5.04E-10	0.00E+00	2.77E-08	7.40E-09	5.52E-09	1.82E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	761206.27	4070815.65	9.87E-08	8.47E-08	3.43E-09	0.00E+00	1.87E-07	1.50E-08	1.31E-08	5.19E-10	0.00E+00	2.86E-08	7.63E-09	5.70E-09	1.88E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	761197.77	4070794.03	1.01E-07	8.70E-08	3.52E-09	0.00E+00	1.92E-07	1.55E-08	1.34E-08	5.34E-10	0.00E+00	2.94E-08	7.84E-09	5.85E-09	1.93E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	761189.27	4070772.41	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	0.00E+00
464	761180.77	4070750.79	1.05E-07	9.03E-08	3.66E-09	0.00E+00	1.99E-07	1.60E-08	1.39E-08	5.54E-10	0.00E+00	3.05E-08	8.14E-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	0.00E+00
465	761172.26	4070729.17	1.06E-07	9.11E-08	3.69E-09	0.00E+00	2.01E-07	1.62E-08	1.40E-08	5.59E-10	0.00E+00	3.08E-08	8.21E-09	6.13E-09	2.03E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	761163.76	4070707.55	1.07E-07	9.15E-08	3.70E-09	0.00E+00	2.02E-07	1.63E-08	1.41E-08	5.61E-10	0.00E+00	3.09E-08	8.25E-09	6.16E-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
467	761155.26	4070685.93	1.07E-07	9.14E-08	3.70E-09	0.00E+00	2.02E-07	1.62E-08	1.41E-08	5.61E-10	0.00E+00	3.09E-08	8.24E-09	6.15E-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
468	761146.76	4070664.31	1.06E-07	9.09E-08	3.68E-09	0.00E+00	2.00E-07	1.61E-08	1.40E-08	5.57E-10	0.00E+00	3.07E-08	8.19E-09	6.11E-09	2.02E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	761138.25	4070642.69	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	0.00E+00
470	761129.75	4070621.07	1.04E-07	8.88E-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	0.00E+00
471	761121.25	4070599.45	1.02E-07	8.75E-08	3.54E-09	0.00E+00	1.93E-07	1.55E-08	1.35E-08	5.37E-10	0.00E+00	2.96E-08	7.88E-09	5.88E-09	1.94E-10	0.00E+00	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	761112.75	4070577.83	1.00E-07	8.60E-08	3.48E-09	0.00E+00	1.90E-07	1.53E-08	1.33E-08	5.28E-10	0.00E+00	2.91E-08	7.75E-09	5.79E-09	1.91E-10	0.00E+00	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	761104.24	4070556.21	9.89E-08	8.48E-08	3.43E-09	0.00E+00	1.87E-07	1.51E-08	1.31E-08	5.20E-10	0.00E+00	2.87E-08	7.65E-09	5.71E-09	1.89E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	761095.74	4070534.59	9.75E-08	8.36E-08	3.38E-09	0.00E+00	1.84E-07	1.49E-08	1.29E-08	5.13E-10	0.00E+00	2.83E-08	7.53E-09	5.62E-09	1.86E-10	0.00E+00	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	761087.24	4070512.97	9.61E-08	8.24E-08	3.34E-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	0.00E+00
476	761078.74	4070491.35	9.47E-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	0.00E+00
477	761070.23	4070469.73	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
478	761061.73	4070448.11	9.18E-08	7.88E-08	3.19E-09	0.00E+00	1.74E-07	1.40E-08	1.21E-08	4.83E-10	0.00E+00	2.66E-08	7.10E-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	0.00E+00
479	761053.23	4070426.49	9.07E-08	7.78E-08	3.15E-09	0.00E+00	1.72E-07	1.38E-08	1.20E-08	4.77E-10	0.00E+00	2.63E-08	7.01E-09	5.23E-09	1.73E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	761044.72	4070404.87	8.96E-08	7.68E-08	3.11E-09	0.00E+00	1.70E-07	1.37E-08	1.18E-08	4.71E-10	0.00E+00	2.60E-08	6.92E-09	5.17E-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
481	761036.22	4070383.25	8.83E-08	7.57E-08	3.06E-09	0.00E+00	1.67E-07	1.35E-08	1.17E-08	4.65E-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	0.00E+00
482	761027.72	4070361.63	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	0.00E+00
483	761019.22	4070340.01	8.49E-08	7.28E-08	2.95E-09	0.00E+00	1.61E-07	1.29E-08	1.12E-08	4.47E-10	0.00E+00	2.46E-08	6.57E-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	0.00E+00
484	761010.71	4070318.39	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	0.00E+00
485	761002.21	4070296.77	8.06E-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	6.23E-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
486	761940.18	4071279.88	1.15E-08	9.84E-09	3.98E-10	0.00E+00	2.17E-08	1.75E-09	1.52E-09	6.04E-11	0.00E+00	3.33E-09	8.87E-10	6.62E-10	2.19E-11	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	761963.5	4071281.13	1.11E-08	9.52E-09	3.85E-10	0.00E+00	2.10E-08	1.69E-09	1.47E-09	5.84E-11	0.00E+00	3.22E-09	8.58E-10	6.40E-10	2.12E-11	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	761986.83	4071282.38	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	0.00E+00
489	762010.15	4071283.63	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	0.00E+00
490	762033.48	4071284.88	1.01E-08	8.67E-09	3.51E-10	0.00E+00	1.91E-08	1.54E-09	1.34E-09	5.32E-11	0.00E+00	2.93E-09	7.81E-10	5.83E-10	1.93E-11	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	761914.22	4071370.17	1.05E-08	8.97E-09	3.63E-10	0.00E+00	1.98E-08	1.59E-09	1.38E-09	5.50E-11	0.00E+00	3.03E-09	8.09E-10	6.04E-10	1.99E-11	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	761893.61	4071360.61	1.09E-08	9.34E-09	3.78E-10	0.00E+00	2.06E-08	1.66E-09	1.44E-09	5.73E-11	0.00E+00	3.16E-09	8.42E-10	6.28E-10	2.08E-11	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	761873.01	4071351.05	1.13E-08	9.72E-09	3.93E-10	0.00E+00	2.14E-08	1.73E-09	1.50E-09	5.96E-11	0.00E+00	3.28E-09	8.76E-10	6.54E-10	2.16E-11	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	761852.4	4071341.49	1.18E-08	1.01E-08	4.11E-10	0.00E+00	2.24E-08	1.80E-09	1.56E-09	6.22E-11	0.00E+00	3.43E-09	9.14E-10	6.82E-10	2.25E-11	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	761831.79	4071331.93	1.24E-08	1.06E-08	4.29E-10	0.00E+00	2.34E-08	1.88E-09	1.63E-09	6.50E-11	0.00E+00	3.58E-09	9.55E-10	7.13E-10	2.36E-11	0.00E+00	1.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	761811.19	4071322.37	1.29E-08	1.11E-08	4.49E-10	0.00E+00	2.45E-08	1.97E-09	1.71E-09	6.81E-11	0.00E+00	3.75E-09	1.00E-09	7.47E-10	2.47E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	761790.58	4071312.81	1.36E-08	1.17E-08	4.72E-10	0.00E+00	2.57E-08	2.07E-09	1.80E-09	7.16E-11	0.00E+00	3.94E-09	1.05E-09	7.85E-10	2.59E-11	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	761769.98	4071303.25	1.43E-08	1.23E-08	4.97E-10	0.00E+00	2.71E-08	2.18E-09	1.89E-09	7.53E-11	0.00E+00	4.15E-09	1.11E-09	8.26E-10	2.73E-11	0.00E+00	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	761749.37	4071293.69	1.51E-08	1.29E-08	5.24E-10	0.00E+00	2.86E-08	2.30E-09	2.00E-09	7.94E-11	0.00E+00	4.37E-09	1.17E-09	8.71E-10	2.88E-11	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	761728.76	4071284.13	1.59E-08	1.36E-08	5.52E-10	0.00E+00	3.01E-08	2.42E-09	2.10E-09	8.37E-11	0.00E+00	4.61E-09	1.23E-09	9.18E-10	3.03E-11	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	761708.16	4071274.57	1.68E-08	1.44E-08	5.84E-10	0.00E+00	3.18E-08	2.56E-09	2.22E-09	8.84E-11	0.00E+00	4.87E-09	1.30E-09	9.70E-10	3.20E-11	0.00E+00	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	761687.55	4071265.01	1.79E-08	1.53E-08	6.20E-10	0.00E+00	3.38E-08	2.72E-09	2.36E-09	9.40E-11	0.00E+00	5.18E-09	1.38E-09	1.03E-09	3.41E-11	0.00E+00	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	761666.94	4071255.45	1.91E-08	1.64E-08	6.63E-10	0.00E+00	3.61E-08	2.91E-09	2.53E-09	1.00E-10	0.00E+00	5.54E-09	1.48E-09	1.10E-09	3.64E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	761646.34	4071245.89	2.04E-08	1.75E-08	7.10E-10	0.00E+00	3.87E-08	3.12E-09	2.70E-09	1.08E-10	0.00E+00	5.93E-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
505	761625.73	4071236.33	2.19E-08	1.87E-08	7.59E-10	0.00E+00	4.14E-08	3.33E-09	2.89E-09	1.15E-10	0.00E+00	6.34E-09	1.69E-09	1.26E-09	4.17E-11	0.00E+00	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	761605.13	4071226.77	2.32E-08	1.99E-08	8.06E-10	0.00E+00	4.40E-08	3.54E-09	3.07E-09	1.22E-10	0.00E+00	6.73E-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	0.00E+00
507	761584.52	4071217.21	2.48E-08	2.13E-08	8.61E-10	0.00E+00	4.69E-08	3.78E-09	3.28E-09	1.30E-10	0.00E+00	7.19E-09	1.92E-09	1.43E-09	4.73E-11	0.00E+00	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	761563.91	4071207.65	2.66E-08	2.28E-08	9.22E-10	0.00E+00	5.03E-08	4.05E-09	3.51E-09	1.40E-10	0.00E+00	7.70E-09	2.05E-09	1.53E-09	5.06E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	761543.31	4071198.09	2.86E-08	2.45E-08	9.91E-10	0.00E+00	5.40E-08	4.35E-09	3.77E-09	1.50E-10	0.00E+00	8.28E-09	2.21E-09	1.65E-09	5.44E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	761522.7	4071188.53	3.08E-08	2.64E-08	1.07E-09	0.00E+00	5.84E-08	4.70E-09	4.08E-09	1.62E-10	0.00E+00	8.94E-09	2.38E-09	1.78E-09	5.88E-11	0.00E+00	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	761502.1	4071178.97	3.31E-08	2.84E-08	1.15E-09	0.00E+00	6.27E-08	5.05E-09	4.38E-09	1.74E-10	0.00E+00	9.60E-09	2.56E-09	1.91E-09	6.32E-11	0.00E+00	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	761481.49	4071169.41	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	0.00E+00
513	761460.88	4071159.85	3.76E-08	3.23E-08	1.31E-09	0.00E+00	7.12E-08	5.73E-09	4.98E-09	1.98E-10	0.00E+00	1.09E-08	2.91E-09	2.17E-09	7.17E-11	0.00E+00	5.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	761440.28	4071150.29	4.00E-08	3.43E-08	1.39E-09	0.00E+00	7.56E-08	6.09E-09	5.28E-09	2.10E-10	0.00E+00	1.16E-08	3.09E-09	2.30E-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
515	761419.67	4071140.73	4.23E-08	3.63E-08	1.47E-09	0.00E+00	8.01E-08	6.45E-09	5.59E-09	2.23E-10	0.00E+00	1.23E-08	3.27E-09	2.44E-09	8.07E-11	0.00E+00	5.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	761399.06	4071131.17	4.47E-08	3.83E-08	1.55E-09	0.00E+00	8.45E-08	6.80E-09	5.90E-09	2.35E-10	0.00E+00	1.29E-08	3.45E-09	2.58E-09	8.51E-11	0.00E+00	6.11E-09	0.00E+00	0.00E+00	0.00E+00	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
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
558	760918.65	4070337.95	7.36E-08	6.31E-08	2.55E-09	0.00E+00	1.39E-07	1.12E-08	9.73E-09	3.87E-10	0.00E+00	2.13E-08	5.69E-09	4.24E-09	1.40E-10	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	760910.34	4070316.81	7.15E-08	6.13E-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	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	760902.02	4070295.67	6.91E-08	5.93E-08	2.40E-09	0.00E+00	1.31E-07	1.05E-08	9.14E-09	3.64E-10	0.00E+00	2.00E-08	5.34E-09	3.99E-09	1.32E-10	0.00E+00	9.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	761934.82	4071379.73	1.01E-08	8.64E-09	3.50E-10	0.00E+00	1.91E-08	1.53E-09	1.33E-09	5.30E-11	0.00E+00	2.92E-09	7.79E-10	5.81E-10	1.92E-11	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	761958.15	4071380.98	9.79E-09	8.39E-09	3.40E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.15E-11	0.00E+00	2.84E-09	7.57E-10	5.65E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	761981.47	4071382.23	9.52E-09	8.17E-09	3.31E-10	0.00E+00	1.80E-08	1.45E-09	1.26E-09	5.01E-11	0.00E+00	2.76E-09	7.36E-10	5.49E-10	1.82E-11	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	762004.8	4071383.48	9.26E-09	7.94E-09	3.21E-10	0.00E+00	1.75E-08	1.41E-09	1.22E-09	4.87E-11	0.00E+00	2.68E-09	7.16E-10	5.34E-10	1.76E-11	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	762028.12	4071384.73	9.03E-09	7.74E-09	3.13E-10	0.00E+00	1.71E-08	1.38E-09	1.19E-09	4.75E-11	0.00E+00	2.62E-09	6.98E-10	5.21E-10	1.72E-11	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	761908.72	4071469.96	9.29E-09	7.97E-09	3.23E-10	0.00E+00	1.76E-08	1.42E-09	1.23E-09	4.89E-11	0.00E+00	2.69E-09	7.18E-10	5.36E-10	1.77E-11	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	761887.97	4071460.34	9.63E-09	8.26E-09	3.34E-10	0.00E+00	1.82E-08	1.47E-09	1.27E-09	5.07E-11	0.00E+00	2.79E-09	7.44E-10	5.55E-10	1.84E-11	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	761867.22	4071450.71	9.98E-09	8.56E-09	3.47E-10	0.00E+00	1.89E-08	1.52E-09	1.32E-09	5.25E-11	0.00E+00	2.89E-09	7.72E-10	5.76E-10	1.90E-11	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	761846.47	4071441.08	1.04E-08	8.90E-09	3.60E-10	0.00E+00	1.96E-08	1.58E-09	1.37E-09	5.46E-11	0.00E+00	3.01E-09	8.02E-10	5.98E-10	1.98E-11	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	761825.72	4071431.46	1.08E-08	9.26E-09	3.75E-10	0.00E+00	2.04E-08	1.65E-09	1.43E-09	5.68E-11	0.00E+00	3.13E-09	8.35E-10	6.23E-10	2.06E-11	0.00E+00	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	761804.97	4071421.83	1.12E-08	9.64E-09	3.90E-10	0.00E+00	2.13E-08	1.71E-09	1.49E-09	5.91E-11	0.00E+00	3.26E-09	8.69E-10	6.49E-10	2.14E-11	0.00E+00	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	761784.22	4071412.2	1.18E-08	1.01E-08	4.08E-10	0.00E+00	2.22E-08	1.79E-09	1.55E-09	6.19E-11	0.00E+00	3.41E-09	9.09E-10	6.78E-10	2.24E-11	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	761763.47	4071402.57	1.23E-08	1.05E-08	4.27E-10	0.00E+00	2.33E-08	1.87E-09	1.62E-09	6.47E-11	0.00E+00	3.56E-09	9.50E-10	7.09E-10	2.34E-11	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	761742.72	4071392.95	1.29E-08	1.11E-08	4.48E-10	0.00E+00	2.44E-08	1.96E-09	1.70E-09	6.78E-11	0.00E+00	3.74E-09	9.97E-10	7.44E-10	2.46E-11	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	761721.97	4071383.32	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	0.00E+00
576	761701.22	4071373.69	1.43E-08	1.22E-08	4.95E-10	0.00E+00	2.70E-08	2.17E-09	1.89E-09	7.50E-11	0.00E+00	4.13E-09	1.10E-09	8.23E-10	2.72E-11	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	761680.47	4071364.07	1.51E-08	1.29E-08	5.23E-10	0.00E+00	2.85E-08	2.29E-09	1.99E-09	7.92E-11	0.00E+00	4.36E-09	1.16E-09	8.69E-10	2.87E-11	0.00E+00	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	761659.72	4071354.44	1.59E-08	1.37E-08	5.53E-10	0.00E+00	3.01E-08	2.43E-09	2.11E-09	8.38E-11	0.00E+00	4.62E-09	1.23E-09	9.19E-10	3.04E-11	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	761638.97	4071344.81	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	0.00E+00
580	761618.22	4071335.18	1.79E-08	1.54E-08	6.22E-10	0.00E+00	3.39E-08	2.73E-09	2.37E-09	9.43E-11	0.00E+00	5.20E-09	1.39E-09	1.03E-09	3.42E-11	0.00E+00	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	761597.47	4071325.56	1.91E-08	1.63E-08	6.62E-10	0.00E+00	3.61E-08	2.90E-09	2.52E-09	1.00E-10	0.00E+00	5.53E-09	1.47E-09	1.10E-09	3.63E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	761576.72	4071315.93	2.03E-08	1.74E-08	7.05E-10	0.00E+00	3.85E-08	3.10E-09	2.69E-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	0.00E+00
583	761555.97	4071306.3	2.17E-08	1.86E-08	7.53E-10	0.00E+00	4.11E-08	3.31E-09	2.87E-09	1.14E-10	0.00E+00	6.29E-09	1.68E-09	1.25E-09	4.14E-11	0.00E+00	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	761535.22	4071296.68	2.32E-08	1.99E-08	8.05E-10	0.00E+00	4.39E-08	3.53E-09	3.06E-09	1.22E-10	0.00E+00	6.72E-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	0.00E+00
585	761514.47	4071287.05	2.48E-08	2.12E-08	8.59E-10	0.00E+00	4.68E-08	3.77E-09	3.27E-09	1.30E-10	0.00E+00	7.18E-09	1.91E-09	1.43E-09	4.72E-11	0.00E+00	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	761493.72	4071277.42	2.64E-08	2.27E-08	9.18E-10	0.00E+00	5.00E-08	4.03E-09	3.50E-09	1.39E-10	0.00E+00	7.66E-09	2.04E-09	1.53E-09	5.04E-11	0.00E+00	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	761472.97	4071267.79	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	0.00E+00
588	761452.22	4071258.17	3.01E-08	2.58E-08	1.04E-09	0.00E+00	5.69E-08	4.58E-09	3.98E-09	1.58E-10	0.00E+00	8.72E-09	2.32E-09	1.74E-09	5.73E-11	0.00E+00	4.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	761431.47	4071248.54	3.20E-08	2.74E-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	2.47E-09	1.85E-09	6.10E-11	0.00E+00	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	761410.72	4071238.91	3.40E-08	2.91E-08	1.18E-09	0.00E+00	6.43E-08	5.18E-09	4.49E-09	1.79E-10	0.00E+00	9.85E-09	2.63E-09	1.96E-09	6.48E-11	0.00E+00	4.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	761389.97	4071229.29	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.80E-08	5.48E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.07E-09	6.85E-11	0.00E+00	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	761369.22	4071219.66	3.79E-08	3.25E-08	1.32E-09	0.00E+00	7.17E-08	5.77E-09	5.01E-09	1.99E-10	0.00E+00	1.10E-08	2.93E-09	2.19E-09	7.22E-11	0.00E+00	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	761348.47	4071210.03	3.99E-08	3.42E-08	1.38E-09	0.00E+00	7.54E-08	6.07E-09	5.27E-09	2.10E-10	0.00E+00	1.16E-08	3.08E-09	2.30E-09	7.60E-11	0.00E+00	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	761327.72	4071200.4	4.18E-08	3.58E-08	1.45E-09	0.00E+00	7.91E-08	6.37E-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	5.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	761306.97	4071190.78	4.37E-08	3.74E-08	1.52E-09	0.00E+00	8.26E-08	6.65E-09	5.77E-09	2.30E-10	0.00E+00	1.27E-08	3.37E-09	2.52E-09	8.32E-11	0.00E+00	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	761286.22	4071181.15	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	0.00E+00
597	761265.47	4071171.52	4.73E-08	4.05E-08	1.64E-09	0.00E+00	8.95E-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
598	761244.71	4071161.9	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	0.00E+00
599	761223.96	4071152.27	5.05E-08	4.33E-08	1.75E-09	0.00E+00	9.56E-08	7.70E-09	6.68E-09	2.66E-10	0.00E+00	1.46E-08	3.90E-09	2.91E-09	9.63E-11	0.00E+00	6.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	761203.21	4071142.64	5.21E-08	4.47E-08	1.81E-09	0.00E+00	9.86E-08	7.94E-09	6.89E-09	2.74E-10	0.00E+00	1.51E-08	4.03E-09	3.00E-09	9.93E-11	0.00E+00	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	761182.46	4071133.01	5.37E-08	4.60E-08	1.86E-09	0.00E+00	1.02E-07	8.18E-09	7.10E-09	2.82E-10	0.00E+00	1.56E-08	4.15E-09	3.10E-09	1.02E-10	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	761161.71	4071123.39	5.53E-08	4.74E-08	1.92E-09	0.00E+00	1.05E-07	8.43E-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	0.00E+00
603	761140.96	4071113.76	5.67E-08	4.86E-08	1.97E-09	0.00E+00	1.07E-07	8.64E-09	7.49E-09	2.98E-10	0.00E+00	1.64E-08	4.38E-09	3.27E-09	1.08E-10	0.00E+00	7.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	761111.84	4071082.85	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	0.00E+00
605	761103.47	4071061.56	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	0.00E+00
606	761095.1	4071040.27	6.57E-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	1.90E-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	0.00E+00
607	761086.73	4071018.98	6.84E-08	5.87E-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	5.29E-09	3.95E-09	1.30E-10	0.00E+00	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	761078.35	4070997.69	7.08E-08	6.07E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.36E-09	3.73E-10	0.00E+00	2.05E-08	5.47E-09	4.08E-09	1.35E-10	0.00E+00	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	761069.98	4070976.41	7.32E-08	6.27E-08	2.54E-09	0.00E+00	1.38E-07	1.11E-08	9.67E-09	3.85E-10	0.00E+00	2.12E-08	5.65E-09	4.22E-09	1.39E-10	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	761061.61	4070955.12	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	0.00E+00
611	761053.24	4070933.83	7.76E-08	6.66E-08	2.69E-09	0.00E+00	1.47E-07	1.18E-08	1.03E-08	4.08E-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	0.00E+00
612	761044.87	4070912.54	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	0.00E+00
613	761036.5	4070891.26	8.06E-08	6.91E-08	2.80E-09	0.00E+00	1.53E-07	1.23E-08	1.07E-08	4.24E-10	0.00E+00	2.34E-08	6.23E-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
614	761028.12	4070869.97	8.17E-08	7.00E-08	2.83E-09	0.00E+00	1.55E-07	1.24E-08	1.08E-08	4.30E-10	0.00E+00	2.37E-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	0.00E+00
615	761019.75	4070848.68	8.24E-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	6.37E-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	0.00E+00
616	761011.38	4070827.39	8.25E-08	7.07E-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
617	761003.01	4070806.11	8.23E-08	7.05E-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	0.00E+00
618	760994.64	4070784.82	8.17E-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	0.00E+00
619	760986.26	4070763.53	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	4.67E-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
620	760977.89	4070742.24	8.02E-08	6.88E-08	2.79E-09	0.00E+00	1.52E-07	1.22E-08	1.06E-08	4.22E-10	0.00E+00	2.33E-08	6.20E-09	4.63E-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
621	760969.52	4070720.95	7.93E-08	6.80E-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	6.13E-09	4.57E-09	1.51E-10	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	760961.15	4070699.67	7.82E-08	6.71E-08	2.72E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.12E-10	0.00E+00	2.27E-08	6.05E-09	4.51E-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
623	760952.78	4070678.38	7.71E-08	6.61E-08	2.67E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.05E-10	0.00E+00	2.23E-08	5.96E-09	4.44E-09	1.47E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	760944.41	4070657.09	7.59E-08	6.51E-08	2.64E-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	0.00E+00
625	760936.03	4070635.8	7.49E-08	6.43E-08	2.60E-09	0.00E+00	1.42E-07	1.14E-08	9.91E-09	3.94E-10	0.00E+00	2.17E-08	5.79E-09	4.32E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	760927.66	4070614.52	7.41E-08	6.35E-08	2.57E-09	0.00E+00	1.40E-07	1.13E-08	9.80E-09	3.90E-10	0.00E+00	2.15E-08	5.73E-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	0.00E+00
627	760919.29	4070593.23	7.34E-08	6.30E-08	2.55E-09	0.00E+00	1.39E-07	1.12E-08	9.71E-09	3.86E-10	0.00E+00	2.13E-08	5.68E-09	4.24E-09	1.40E-10	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	760910.92	4070571.94	7.29E-08	6.25E-08	2.53E-09	0.00E+00	1.38E-07	1.11E-08	9.64E-09	3.84E-10	0.00E+00	2.11E-08	5.64E-09	4.21E-09	1.39E-10	0.00E+00	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	760902.55	4070550.65	7.25E-08	6.21E-08	2.52E-09	0.00E+00	1.37E-07	1.10E-08	9.58E-09	3.81E-10	0.00E+00	2.10E-08	5.60E-09	4.18E-09	1.38E-10	0.00E+00	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	760894.17	4070529.37	7.21E-08	6.18E-08	2.50E-09	0.00E+00	1.36E-07	1.10E-08	9.53E-09	3.79E-10	0.00E+00	2.09E-08	5.57E-09	4.16E-09	1.37E-10	0.00E+00	9.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	760885.8	4070508.08	7.18E-08	6.16E-08	2.49E-09	0.00E+00	1.36E-07	1.09E-08	9.50E-09	3.78E-10	0.00E+00	2.08E-08	5.55E-09	4.14E-09	1.37E-10	0.00E+00	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	760877.43	4070486.79	7.16E-08	6.14E-08	2.49E-09	0.00E+00	1.36E-07	1.09E-08	9.47E-09	3.77E-10	0.00E+00	2.08E-08	5.54E-09	4.13E-09	1.37E-10	0.00E+00	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	760869.06	4070465.5	7.13E-08	6.12E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.43E-09	3.75E-10	0.00E+00	2.07E-08	5.51E-09	4.11E-09	1.36E-10	0.00E+00	9.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	760860.69	4070444.21	7.07E-08	6.06E-08	2.45E-09	0.00E+00	1.34E-07	1.08E-08	9.35E-09	3.72E-10	0.00E+00	2.05E-08	5.47E-09	4.08E-09	1.35E-10	0.00E+00	9.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	760852.32	4070422.93	6.98E-08	5.99E-08	2.42E-09	0.00E+00	1.32E-07	1.06E-08	9.23E-09	3.67E-10	0.00E+00	2.02E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	760843.94	4070401.64	6.89E-08	5.91E-08	2.39E-09	0.00E+00	1.30E-07	1.05E-08	9.11E-09	3.62E-10	0.00E+00	2.00E-08	5.32E-09	3.97E-09	1.31E-10	0.00E+00	9.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	760835.57	4070380.35	6.76E-08	5.80E-08	2.35E-09	0.00E+00	1.28E-07	1.03E-08	8.94E-09	3.56E-10	0.00E+00	1.96E-08	5.23E-09	3.90E-09	1.29E-10	0.00E+00	9.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	760827.2	4070359.06	6.60E-08	5.66E-08	2.29E-09	0.00E+00	1.25E-07	1.01E-08	8.73E-09	3.47E-10	0.00E+00	1.91E-08	5.10E-09	3.81E-09	1.26E-10	0.00E+00	9.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	760818.83	4070337.78	6.43E-08	5.52E-08	2.23E-09	0.00E+00	1.22E-07	9.80E-09	8.50E-09	3.38E-10	0.00E+00	1.86E-08	4.97E-09	3.71E-09	1.23E-10	0.00E+00	8.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	760810.46	4070316.49	6.24E-08	5.35E-08	2.16E-09	0.00E+00	1.18E-07	9.50E-09	8.25E-09	3.28E-10	0.00E+00	1.81E-08	4.82E-09	3.60E-09	1.19E-10	0.00E+00	8.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	760802.08	4070295.2	6.01E-08	5.16E-08	2.09E-09	0.00E+00	1.14E-07	9.16E-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	0.00E+00
642	761929.47	4071479.59	8.97E-09	7.69E-09	3.11E-10	0.00E+00	1.70E-08	1.37E-09	1.19E-09	4.72E-11	0.00E+00	2.60E-09	6.94E-10	5.18E-10	1.71E-11	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	761952.8	4071480.84	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	0.00E+00
644	761976.12	4071482.09	8.53E-09	7.31E-09	2.96E-10	0.00E+00	1.61E-08	1.30E-09	1.13E-09	4.49E-11	0.00E+00	2.47E-09	6.59E-10	4.92E-10	1.63E-11	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	761999.45	4071483.34	8.32E-09	7.13E-09	2.89E-10	0.00E+00	1.57E-08	1.27E-09	1.10E-09	4.38E-11	0.00E+00	2.41E-09	6.43E-10	4.80E-10	1.59E-11	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	762022.77	4071484.59	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	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	0.00E+00	0.00E+00
690	762213.4	4070240.52	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	0.00E+00
691	762214.13	4070215.78	8.12E-07	6.96E-07	2.82E-08	0.00E+00	1.54E-06	1.24E-07	1.07E-07	4.27E-09	0.00E+00	2.35E-07	6.28E-08	4.68E-08	1.55E-09	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	762214.86	4070191.03	1.17E-06	9.99E-07	4.05E-08	0.00E+00	2.21E-06	1.78E-07	1.54E-07	6.13E-09	0.00E+00	3.38E-07	9.01E-08	6.72E-08	2.22E-09	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	762215.59	4070166.29	1.63E-06	1.40E-06	5.67E-08	0.00E+00	3.09E-06	2.49E-07	2.16E-07	8.59E-09	0.00E+00	4.73E-07	1.26E-07	9.42E-08	3.11E-09	0.00E+00	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	762216.32	4070141.55	2.32E-06	1.99E-06	8.05E-08	0.00E+00	4.39E-06	3.53E-07	3.07E-07	1.22E-08	0.00E+00	6.72E-07	1.79E-07	1.34E-07	4.42E-09	0.00E+00	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	762217.05	4070116.81	3.65E-06	3.13E-06	1.27E-07	0.00E+00	6.91E-06	5.56E-07	4.83E-07	1.92E-08	0.00E+00	1.06E-06	2.82E-07	2.11E-07	6.96E-09	0.00E+00	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	762227.25	4070311.93	1.99E-07	1.70E-07	6.90E-09	0.00E+00	3.76E-07	3.03E-08	2.63E-08	1.05E-09	0.00E+00	5.76E-08	1.54E-08	1.15E-08	3.79E-10	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	762217.58	4070333.12	1.67E-07	1.43E-07	5.78E-09	0.00E+00	3.15E-07	2.54E-08	2.20E-08	8.76E-10	0.00E+00	4.83E-08	1.29E-08	9.61E-09	3.18E-10	0.00E+00	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	762207.91	4070354.31	1.41E-07	1.21E-07	4.89E-09	0.00E+00	2.67E-07	2.15E-08	1.86E-08	7.42E-10	0.00E+00	4.09E-08	1.09E-08	8.13E-09	2.69E-10	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	762198.23	4070375.5	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	9.33E-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	0.00E+00
700	762166.64	4070404.57	1.11E-07	9.47E-08	3.84E-09	0.00E+00	2.09E-07	1.68E-08	1.46E-08	5.81E-10	0.00E+00	3.20E-08	8.54E-09	6.37E-09	2.11E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	762144.72	4070412.45	1.16E-07	9.97E-08	4.04E-09	0.00E+00	2.20E-07	1.77E-08	1.54E-08	6.12E-10	0.00E+00	3.37E-08	8.99E-09	6.71E-09	2.22E-10	0.00E+00	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	762122.8	4070420.33	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	2.34E-10	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	762100.88	4070428.21	1.31E-07	1.12E-07	4.54E-09	0.00E+00	2.48E-07	1.99E-08	1.73E-08	6.88E-10	0.00E+00	3.79E-08	1.01E-08	7.55E-09	2.49E-10	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	762236.92	4070290.74	2.41E-07	2.07E-07	8.38E-09	0.00E+00	4.57E-07	3.68E-08	3.19E-08	1.27E-09	0.00E+00	7.00E-08	1.87E-08	1.39E-08	4.60E-10	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	762237.66	4070266	3.26E-07	2.80E-07	1.13E-08	0.00E+00	6.18E-07	4.97E-08	4.32E-08	1.72E-09	0.00E+00	9.46E-08	2.52E-08	1.88E-08	6.22E-10	0.00E+00	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	762238.39	4070241.26	4.46E-07	3.83E-07	1.55E-08	0.00E+00	8.44E-07	6.80E-08	5.90E-08	2.35E-09	0.00E+00	1.29E-07	3.45E-08	2.57E-08	8.51E-10	0.00E+00	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	762239.12	4070216.51	6.22E-07	5.34E-07	2.16E-08	0.00E+00	1.18E-06	9.48E-08	8.23E-08	3.27E-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
708	762239.85	4070191.77	8.44E-07	7.24E-07	2.93E-08	0.00E+00	1.60E-06	1.29E-07	1.12E-07	4.44E-09	0.00E+00	2.45E-07	6.53E-08	4.87E-08	1.61E-09	0.00E+00	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	762240.58	4070167.03	1.20E-06	1.03E-06	4.15E-08	0.00E+00	2.26E-06	1.82E-07	1.58E-07	6.29E-09	0.00E+00	3.47E-07	9.24E-08	6.90E-08	2.28E-09	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	762241.31	4070142.29	1.73E-06	1.48E-06	6.01E-08	0.00E+00	3.28E-06	2.64E-07	2.29E-07	9.11E-09	0.00E+00	5.02E-07	1.34E-07	9.99E-08	3.30E-09	0.00E+00	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	762242.04	4070117.54	2.87E-06	2.46E-06	9.98E-08	0.00E+00	5.44E-06	4.38E-07	3.80E-07	1.51E-08	0.00E+00	8.33E-07	2.22E-07	1.66E-07	5.48E-09	0.00E+00	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	762252.51	4070312.08	1.72E-07	1.47E-07	5.96E-09	0.00E+00	3.25E-07	2.61E-08	2.27E-08	9.03E-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	0.00E+00	0.00E+00
713	762243.11	4070332.68	1.46E-07	1.25E-07	5.07E-09	0.00E+00	2.76E-07	2.23E-08	1.93E-08	7.68E-10	0.00E+00	4.23E-08	1.13E-08	8.43E-09	2.78E-10	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	762233.7	4070353.28	1.26E-07	1.08E-07	4.37E-09	0.00E+00	2.38E-07	1.92E-08	1.66E-08	6.62E-10	0.00E+00	3.65E-08	9.72E-09	7.26E-09	2.40E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	762224.3	4070373.88	1.10E-07	9.44E-08	3.82E-09	0.00E+00	2.08E-07	1.68E-08	1.46E-08	5.79E-10	0.00E+00	3.19E-08	8.51E-09	6.35E-09	2.10E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	762214.89	4070394.49	9.88E-08	8.47E-08	3.43E-09	0.00E+00	1.87E-07	1.50E-08	1.31E-08	5.20E-10	0.00E+00	2.86E-08	7.63E-09	5.70E-09	1.88E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	762184.18	4070422.75	9.07E-08	7.78E-08	3.15E-09	0.00E+00	1.72E-07	1.38E-08	1.20E-08	4.77E-10	0.00E+00	2.63E-08	7.01E-09	5.23E-09	1.73E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	762162.87	4070430.41	9.45E-08	8.10E-08	3.28E-09	0.00E+00	1.79E-07	1.44E-08	1.25E-08	4.97E-10	0.00E+00	2.74E-08	7.30E-09	5.45E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	762141.56	4070438.07	9.91E-08	8.49E-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	5.71E-09	1.89E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	762120.25	4070445.73	1.05E-07	8.98E-08	3.64E-09	0.00E+00	1.98E-07	1.60E-08	1.38E-08	5.51E-10	0.00E+00	3.04E-08	8.10E-09	6.04E-09	2.00E-10	0.00E+00	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	762098.94	4070453.4	1.09E-07	9.37E-08	3.79E-09	0.00E+00	2.07E-07	1.67E-08	1.44E-08	5.75E-10	0.00E+00	3.17E-08	8.45E-09	6.30E-09	2.08E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	762261.91	4070291.48	2.03E-07	1.74E-07	7.06E-09	0.00E+00	3.85E-07	3.10E-08	2.69E-08	1.07E-09	0.00E+00	5.89E-08	1.57E-08	1.17E-08	3.88E-10	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	762262.64	4070266.74	2.71E-07	2.33E-07	9.41E-09	0.00E+00	5.13E-07	4.13E-08	3.58E-08	1.43E-09	0.00E+00	7.86E-08	2.10E-08	1.56E-08	5.17E-10	0.00E+00	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	762263.38	4070241.99	3.61E-07	3.10E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.78E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.89E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	762264.11	4070217.25	4.82E-07	4.14E-07	1.67E-08	0.00E+00	9.13E-07	7.35E-08	6.38E-08	2.54E-09	0.00E+00	1.40E-07	3.73E-08	2.78E-08	9.20E-10	0.00E+00	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	762264.84	4070192.51	6.49E-07	5.57E-07	2.25E-08	0.00E+00	1.23E-06	9.89E-08	8.58E-08	3.41E-09	0.00E+00	1.88E-07	5.02E-08	3.74E-08	1.24E-09	0.00E+00	8.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	762265.57	4070167.77	8.85E-07	7.59E-07	3.07E-08	0.00E+00	1.67E-06	1.35E-07	1.17E-07	4.66E-09	0.00E+00	2.56E-07	6.84E-08	5.10E-08	1.69E-09	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	762266.3	4070143.02	1.26E-06	1.08E-06	4.38E-08	0.00E+00	2.39E-06	1.92E-07	1.67E-07	6.63E-09	0.00E+00	3.65E-07	9.74E-08	7.27E-08	2.40E-09	0.00E+00	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	762267.03	4070118.28	2.11E-06	1.81E-06	7.33E-08	0.00E+00	4.00E-06	3.22E-07	2.79E-07	1.11E-08	0.00E+00	6.12E-07	1.63E-07	1.22E-07	4.03E-09	0.00E+00	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	762277.69	4070312.4	1.52E-07	1.30E-07	5.26E-09	0.00E+00	2.87E-07	2.31E-08	2.00E-08	7.98E-10	0.00E+00	4.39E-08	1.17E-08	8.75E-09	2.89E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	762259.27	4070352.76	1.14E-07	9.77E-08	3.95E-09	0.00E+00	2.16E-07	1.74E-08	1.51E-08	5.99E-10	0.00E+00	3.30E-08	8.81E-09	6.57E-09	2.17E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	762240.84	4070393.12	9.14E-08	7.83E-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
733	762201.54	4070440.99	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	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	762159.79	4070456	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
735	762118.04	4070471.01	8.94E-08	7.66E-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	5.15E-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
736	762287.63	4070267.48	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	0.00E+00
737	762288.37	4070242.73	2.98E-07	2.56E-07	1.03E-08	0.00E+00	5.64E-07	4.54E-08	3.94E-08	1.57E-09	0.00E+00	8.64E-08	2.30E-08	1.72E-08	5.68E-10	0.00E+00	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	762289.1	4070217.99	3.88E-07	3.33E-07	1.35E-08	0.00E+00	7.34E-07	5.91E-08	5.13E-08	2.04E-09	0.00E+00	1.12E-07	3.00E-08	2.24E-08	7.39E-10	0.00E+00	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	762289.83	4070193.25	5.10E-07	4.37E-07	1.77E-08	0.00E+00	9.65E-07	7.77E-08	6.74E-08	2.68E-09	0.00E+00	1.48E-07	3.94E-08	2.94E-08	9.72E-10	0.00E+00	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	762290.56	4070168.51	6.80E-07	5.83E-07	2.36E-08	0.00E+00	1.29E-06	1.04E-07	8.99E-08	3.58E-09	0.00E+00	1.97E-07	5.26E-08	3.92E-08	1.30E-09	0.00E+00	9.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	762291.29	4070143.76	9.41E-07	8.07E-07	3.27E-08	0.00E+00	1.78E-06	1.43E-07	1.24E-07	4.95E-09	0.00E+00	2.73E-07	7.28E-08	5.43E-08	1.79E-09	0.00E+00	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	762292.02	4070119.02	1.43E-06	1.23E-06	4.97E-08	0.00E+00	2.71E-06	2.18E-07	1.89E-07	7.54E-09	0.00E+00	4.15E-07	1.11E-07	8.26E-08	2.73E-09	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	762326.8	4070315.77	1.22E-07	1.04E-07	4.23E-09	0.00E+00	2.30E-07	1.86E-08	1.61E-08	6.41E-10	0.00E+00	3.53E-08	9.41E-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	0.00E+00
744	762316.73	4070337.84	1.05E-07	9.02E-08	3.65E-09	0.00E+00	1.99E-07	1.60E-08	1.39E-08	5.53E-10	0.00E+00	3.05E-08	8.13E-09	6.07E-09	2.00E-10	0.00E+00	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	762306.65	4070359.91	9.30E-08	7.98E-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	5.37E-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
746	762296.58	4070381.99	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
747	762286.5	4070404.06	7.51E-08	6.44E-08	2.61E-09	0.00E+00	1.42E-07	1.14E-08	9.93E-09	3.95E-10	0.00E+00	2.18E-08	5.81E-09	4.33E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	762276.42	4070426.13	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
749	762266.35	4070448.2	6.16E-08	5.28E-08	2.14E-09	0.00E+00	1.17E-07	9.39E-09	8.15E-09	3.24E-10	0.00E+00	1.79E-08	4.76E-09	3.55E-09	1.17E-10	0.00E+00	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	762233.44	4070478.49	5.69E-08	4.88E-08	1.98E-09	0.00E+00	1.08E-07	8.67E-09	7.53E-09	2.99E-10	0.00E+00	1.65E-08	4.40E-09	3.28E-09	1.09E-10	0.00E+00	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	762210.61	4070486.69	5.84E-08	5.01E-08	2.03E-09	0.00E+00	1.11E-07	8.90E-09	7.72E-09	3.07E-10	0.00E+00	1.69E-08	4.51E-09	3.37E-09	1.11E-10	0.00E+00	7.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	762187.77	4070494.9	6.00E-08	5.14E-08	2.08E-09	0.00E+00	1.13E-07	9.14E-09	7.93E-09	3.16E-10	0.00E+00	1.74E-08	4.64E-09	3.46E-09	1.14E-10	0.00E+00	8.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	762164.94	4070503.11	6.20E-08	5.31E-08	2.15E-09	0.00E+00	1.17E-07	9.44E-09	8.19E-09	3.26E-10	0.00E+00	1.80E-08	4.79E-09	3.57E-09	1.18E-10	0.00E+00	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	762142.11	4070511.32	6.39E-08	5.48E-08	2.22E-09	0.00E+00	1.21E-07	9.74E-09	8.45E-09	3.36E-10	0.00E+00	1.85E-08	4.94E-09	3.69E-09	1.22E-10	0.00E+00	8.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	762119.28	4070519.53	6.61E-08	5.67E-08	2.30E-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	0.00E+00
756	762096.44	4070527.74	6.85E-08	5.88E-08	2.38E-09	0.00E+00	1.30E-07	1.04E-08	9.06E-09	3.60E-10	0.00E+00	1.99E-08	5.30E-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	0.00E+00
757	762336.88	4070293.7	1.41E-07	1.21E-07	4.89E-09	0.00E+00	2.66E-07	2.15E-08	1.86E-08	7.41E-10	0.00E+00	4.08E-08	1.09E-08	8.12E-09	2.68E-10	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	762337.61	4070268.95	1.74E-07	1.49E-07	6.04E-09	0.00E+00	3.29E-07	2.65E-08	2.30E-08	9.15E-10	0.00E+00	5.04E-08	1.34E-08	1.00E-08	3.32E-10	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	762338.34	4070244.21	2.16E-07	1.85E-07	7.50E-09	0.00E+00	4.09E-07	3.29E-08	2.86E-08	1.14E-09	0.00E+00	6.26E-08	1.67E-08	1.25E-08	4.12E-10	0.00E+00	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	762339.07	4070219.47	2.71E-07	2.32E-07	9.40E-09	0.00E+00	5.12E-07	4.13E-08	3.58E-08	1.42E-09	0.00E+00	7.85E-08	2.09E-08	1.56E-08	5.16E-10	0.00E+00	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	762339.81	4070194.73	3.43E-07	2.94E-07	1.19E-08	0.00E+00	6.49E-07	5.23E-08	4.54E-08	1.81E-09	0.00E+00	9.95E-08	2.65E-08	1.98E-08	6.54E-10	0.00E+00	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	762340.54	4070169.98	4.42E-07	3.79E-07	1.53E-08	0.00E+00	8.36E-07	6.73E-08	5.84E-08	2.32E-09	0.00E+00	1.28E-07	3.42E-08	2.55E-08	8.42E-10	0.00E+00	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	762341.27	4070145.24	5.85E-07	5.01E-07	2.03E-08	0.00E+00	1.11E-06	8.91E-08	7.73E-08	3.08E-09	0.00E+00	1.69E-07	4.52E-08	3.37E-08	1.11E-09	0.00E+00	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	762342	4070120.5	8.10E-07	6.95E-07	2.81E-08	0.00E+00	1.53E-06	1.23E-07	1.07E-07	4.26E-09	0.00E+00	2.35E-07	6.26E-08	4.67E-08	1.54E-09	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	762342.73	4070095.76	1.24E-06	1.06E-06	4.30E-08	0.00E+00	2.34E-06	1.89E-07	1.64E-07	6.51E-09	0.00E+00	3.59E-07	9.57E-08	7.14E-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
766	762377.19	4070316.36	9.93E-08	8.52E-08	3.45E-09	0.00E+00	1.88E-07	1.51E-08	1.31E-08	5.23E-10	0.00E+00	2.88E-08	7.68E-09	5.73E-09	1.89E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	762367.51	4070337.55	8.85E-08	7.59E-08	3.07E-09	0.00E+00	1.68E-07	1.35E-08	1.17E-08	4.66E-10	0.00E+00	2.57E-08	6.84E-09	5.11E-09	1.69E-10	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	762357.84	4070358.74	7.96E-08	6.83E-08	2.76E-09	0.00E+00	1.51E-07	1.21E-08	1.05E-08	4.19E-10	0.00E+00	2.31E-08	6.15E-09	4.59E-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
769	762348.17	4070379.93	7.19E-08	6.17E-08	2.50E-09	0.00E+00	1.36E-07	1.10E-08	9.51E-09	3.78E-10	0.00E+00	2.09E-08	5.56E-09	4.15E-09	1.37E-10	0.00E+00	9.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	762338.49	4070401.12	6.58E-08	5.64E-08	2.28E-09	0.00E+00	1.24E-07	1.00E-08	8.70E-09	3.46E-10	0.00E+00	1.91E-08	5.09E-09	3.80E-09	1.25E-10	0.00E+00	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	762328.82	4070422.31	6.03E-08	5.17E-08	2.09E-09	0.00E+00	1.14E-07	9.18E-09	7.97E-09	3.17E-10	0.00E+00	1.75E-08	4.66E-09	3.48E-09	1.15E-10	0.00E+00	8.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	762319.15	4070443.5	5.48E-08	4.70E-08	1.90E-09	0.00E+00	1.04E-07	8.35E-09	7.24E-09	2.88E-10	0.00E+00	1.59E-08	4.24E-09	3.16E-09	1.04E-10	0.00E+00	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	762309.48	4070464.69	5.00E-08	4.28E-08	1.73E-09	0.00E+00	9.45E-08	7.61E-09	6.60E-09	2.63E-10	0.00E+00	1.45E-08	3.86E-09	2.88E-09	9.52E-11	0.00E+00	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	762299.8	4070485.88	4.59E-08	3.94E-08	1.59E-09	0.00E+00	8.69E-08	7.00E-09	6.07E-09	2.42E-10	0.00E+00	1.33E-08	3.55E-09	2.65E-09	8.75E-11	0.00E+00	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	762268.21	4070514.95	4.38E-08	3.75E-08	1.52E-09	0.00E+00	8.28E-08	6.67E-09	5.78E-09	2.30E-10	0.00E+00	1.27E-08	3.38E-09	2.52E-09	8.34E-11	0.00E+00	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	762246.29	4070522.83	4.47E-08	3.84E-08	1.55E-09	0.00E+00	8.46E-08	6.81E-09	5.91E-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	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
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	762440.49	4070172.94	2.34E-07	2.01E-07	8.13E-09	0.00E+00	4.43E-07	3.57E-08	3.10E-08	1.23E-09	0.00E+00	6.79E-08	1.81E-08	1.35E-08	4.46E-10	0.00E+00	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	762441.22	4070148.19	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	8.43E-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
820	762441.96	4070123.45	3.63E-07	3.12E-07	1.26E-08	0.00E+00	6.87E-07	5.54E-08	4.80E-08	1.91E-09	0.00E+00	1.05E-07	2.81E-08	2.10E-08	6.93E-10	0.00E+00	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	762442.69	4070098.71	4.60E-07	3.95E-07	1.60E-08	0.00E+00	8.71E-07	7.01E-08	6.09E-08	2.42E-09	0.00E+00	1.33E-07	3.56E-08	2.66E-08	8.78E-10	0.00E+00	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	762476.89	4070319.86	7.28E-08	6.24E-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
823	762466.97	4070341.59	6.52E-08	5.59E-08	2.26E-09	0.00E+00	1.23E-07	9.93E-09	8.62E-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	0.00E+00
824	762457.05	4070363.33	5.89E-08	5.05E-08	2.05E-09	0.00E+00	1.12E-07	8.98E-09	7.79E-09	3.10E-10	0.00E+00	1.71E-08	4.56E-09	3.40E-09	1.12E-10	0.00E+00	8.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	762447.13	4070385.06	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	4.14E-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	0.00E+00
826	762437.21	4070406.79	4.89E-08	4.19E-08	1.70E-09	0.00E+00	9.25E-08	7.45E-09	6.46E-09	2.57E-10	0.00E+00	1.42E-08	3.78E-09	2.82E-09	9.32E-11	0.00E+00	6.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	762427.29	4070428.52	4.47E-08	3.83E-08	1.55E-09	0.00E+00	8.45E-08	6.81E-09	5.91E-09	2.35E-10	0.00E+00	1.29E-08	3.45E-09	2.58E-09	8.52E-11	0.00E+00	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	762417.37	4070450.26	4.14E-08	3.55E-08	1.44E-09	0.00E+00	7.84E-08	6.31E-09	5.47E-09	2.18E-10	0.00E+00	1.20E-08	3.20E-09	2.39E-09	7.89E-11	0.00E+00	5.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	762407.45	4070471.99	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	7.35E-11	0.00E+00	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	762397.53	4070493.72	3.62E-08	3.10E-08	1.26E-09	0.00E+00	6.85E-08	5.51E-09	4.78E-09	1.90E-10	0.00E+00	1.05E-08	2.80E-09	2.09E-09	6.90E-11	0.00E+00	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	762387.61	4070515.46	3.41E-08	2.93E-08	1.18E-09	0.00E+00	6.46E-08	5.20E-09	4.51E-09	1.80E-10	0.00E+00	9.89E-09	2.64E-09	1.97E-09	6.50E-11	0.00E+00	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	762377.68	4070537.19	3.21E-08	2.75E-08	1.11E-09	0.00E+00	6.07E-08	4.89E-09	4.24E-09	1.69E-10	0.00E+00	9.29E-09	2.48E-09	1.85E-09	6.11E-11	0.00E+00	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	762367.76	4070558.92	3.02E-08	2.59E-08	1.05E-09	0.00E+00	5.71E-08	4.60E-09	3.99E-09	1.59E-10	0.00E+00	8.75E-09	2.33E-09	1.74E-09	5.76E-11	0.00E+00	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	762335.36	4070588.74	2.89E-08	2.47E-08	1.00E-09	0.00E+00	5.46E-08	4.40E-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	0.00E+00
835	762312.88	4070596.82	2.93E-08	2.51E-08	1.02E-09	0.00E+00	5.55E-08	4.47E-09	3.88E-09	1.54E-10	0.00E+00	8.50E-09	2.27E-09	1.69E-09	5.59E-11	0.00E+00	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	762290.4	4070604.9	2.98E-08	2.55E-08	1.03E-09	0.00E+00	5.63E-08	4.54E-09	3.94E-09	1.57E-10	0.00E+00	8.63E-09	2.30E-09	1.72E-09	5.68E-11	0.00E+00	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	762267.92	4070612.99	3.04E-08	2.60E-08	1.05E-09	0.00E+00	5.75E-08	4.63E-09	4.02E-09	1.60E-10	0.00E+00	8.80E-09	2.35E-09	1.75E-09	5.79E-11	0.00E+00	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	762245.44	4070621.07	3.10E-08	2.66E-08	1.08E-09	0.00E+00	5.86E-08	4.72E-09	4.10E-09	1.63E-10	0.00E+00	8.98E-09	2.39E-09	1.79E-09	5.91E-11	0.00E+00	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	762222.95	4070629.15	3.16E-08	2.71E-08	1.10E-09	0.00E+00	5.98E-08	4.81E-09	4.18E-09	1.66E-10	0.00E+00	9.15E-09	2.44E-09	1.82E-09	6.02E-11	0.00E+00	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	762200.47	4070637.24	3.22E-08	2.76E-08	1.12E-09	0.00E+00	6.09E-08	4.90E-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	0.00E+00
841	762177.99	4070645.32	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	0.00E+00
842	762155.51	4070653.4	3.34E-08	2.87E-08	1.16E-09	0.00E+00	6.33E-08	5.10E-09	4.42E-09	1.76E-10	0.00E+00	9.69E-09	2.59E-09	1.93E-09	6.38E-11	0.00E+00	4.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	762133.03	4070661.49	3.41E-08	2.93E-08	1.18E-09	0.00E+00	6.46E-08	5.20E-09	4.51E-09	1.80E-10	0.00E+00	9.89E-09	2.64E-09	1.97E-09	6.50E-11	0.00E+00	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	762110.55	4070669.57	3.48E-08	2.99E-08	1.21E-09	0.00E+00	6.59E-08	5.31E-09	4.60E-09	1.83E-10	0.00E+00	1.01E-08	2.69E-09	2.01E-09	6.64E-11	0.00E+00	4.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	762088.07	4070677.65	3.56E-08	3.05E-08	1.23E-09	0.00E+00	6.73E-08	5.42E-09	4.70E-09	1.87E-10	0.00E+00	1.03E-08	2.75E-09	2.05E-09	6.78E-11	0.00E+00	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	762486.82	4070298.13	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
847	762487.55	4070273.38	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	5.43E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	762488.28	4070248.64	1.08E-07	9.27E-08	3.75E-09	0.00E+00	2.04E-07	1.65E-08	1.43E-08	5.69E-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	0.00E+00
849	762489.01	4070223.9	1.26E-07	1.08E-07	4.38E-09	0.00E+00	2.39E-07	1.92E-08	1.67E-08	6.65E-10	0.00E+00	3.66E-08	9.76E-09	7.29E-09	2.41E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	762489.74	4070199.16	1.50E-07	1.29E-07	5.22E-09	0.00E+00	2.85E-07	2.29E-08	1.99E-08	7.91E-10	0.00E+00	4.36E-08	1.16E-08	8.68E-09	2.87E-10	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	762490.47	4070174.41	1.80E-07	1.54E-07	6.25E-09	0.00E+00	3.41E-07	2.74E-08	2.38E-08	9.47E-10	0.00E+00	5.22E-08	1.39E-08	1.04E-08	3.43E-10	0.00E+00	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	762491.2	4070149.67	2.17E-07	1.86E-07	7.55E-09	0.00E+00	4.11E-07	3.31E-08	2.87E-08	1.14E-09	0.00E+00	6.30E-08	1.68E-08	1.25E-08	4.15E-10	0.00E+00	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	762491.93	4070124.93	2.66E-07	2.28E-07	9.24E-09	0.00E+00	5.04E-07	4.06E-08	3.52E-08	1.40E-09	0.00E+00	7.72E-08	2.06E-08	1.54E-08	5.08E-10	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	762492.67	4070100.19	3.27E-07	2.80E-07	1.14E-08	0.00E+00	6.19E-07	4.98E-08	4.32E-08	1.72E-09	0.00E+00	9.48E-08	2.53E-08	1.89E-08	6.23E-10	0.00E+00	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	762527.12	4070320.79	6.53E-08	5.60E-08	2.27E-09	0.00E+00	1.24E-07	9.95E-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	8.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	762517.45	4070341.98	5.94E-08	5.10E-08	2.06E-09	0.00E+00	1.12E-07	9.06E-09	7.86E-09	3.13E-10	0.00E+00	1.72E-08	4.59E-09	3.43E-09	1.13E-10	0.00E+00	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	762507.77	4070363.17	5.39E-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	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	762498.1	4070384.36	4.90E-08	4.20E-08	1.70E-09	0.00E+00	9.28E-08	7.47E-09	6.48E-09	2.58E-10	0.00E+00	1.42E-08	3.79E-09	2.83E-09	9.35E-11	0.00E+00	6.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	762488.43	4070405.55	4.50E-08	3.86E-08	1.56E-09	0.00E+00	8.51E-08	6.85E-09	5.95E-09	2.37E-10	0.00E+00	1.30E-08	3.48E-09	2.59E-09	8.57E-11	0.00E+00	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	762478.76	4070426.74	4.13E-08	3.54E-08	1.43E-09	0.00E+00	7.82E-08	6.30E-09	5.46E-09	2.17E-10	0.00E+00	1.20E-08	3.19E-09	2.38E-09	7.88E-11	0.00E+00	5.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	762469.08	4070447.93	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	0.00E+00
862	762459.41	4070469.12	3.56E-08	3.05E-08	1.24E-09	0.00E+00	6.74E-08	5.43E-09	4.71E-09	1.87E-10	0.00E+00	1.03E-08	2.75E-09	2.06E-09	6.79E-11	0.00E+00	4.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	762449.74	4070490.31	3.33E-08	2.85E-08	1.15E-09	0.00E+00	6.29E-08	5.07E-09	4.40E-09	1.75E-10	0.00E+00	9.64E-09	2.57E-09	1.92E-09	6.34E-11	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	762440.06	4070511.5	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	9.13E-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	0.00E+00
865	762430.39	4070532.69	2.98E-08	2.56E-08	1.04E-09	0.00E+00	5.65E-08	4.55E-09	3.95E-09	1.57E-10	0.00E+00	8.65E-09	2.31E-09	1.72E-09	5.69E-11	0.00E+00	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	762420.72	4070553.88	2.83E-08	2.43E-08	9.82E-10	0.00E+00	5.36E-08	4.31E-09	3.74E-09	1.49E-10	0.00E+00	8.20E-09	2.19E-09	1.63E-09	5.40E-11	0.00E+00	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	762411.04	4070575.07	2.67E-08	2.29E-08	9.27E-10	0.00E+00	5.05E-08	4.07E-09	3.53E-09	1.41E-10	0.00E+00	7.74E-09	2.06E-09	1.54E-09	5.09E-11	0.00E+00	3.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	762401.37	4070596.26	2.53E-08	2.17E-08	8.78E-10	0.00E+00	4.79E-08	3.85E-09	3.34E-09	1.33E-10	0.00E+00	7.33E-09	1.95E-09	1.46E-09	4.82E-11	0.00E+00	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	762369.78	4070625.33	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	0.00E+00
870	762347.86	4070633.21	2.46E-08	2.11E-08	8.54E-10	0.00E+00	4.65E-08	3.75E-09	3.25E-09	1.29E-10	0.00E+00	7.13E-09	1.90E-09	1.42E-09	4.69E-11	0.00E+00	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	762325.94	4070641.09	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	0.00E+00
872	762304.02	4070648.97	2.54E-08	2.17E-08	8.80E-10	0.00E+00	4.80E-08	3.86E-09	3.35E-09	1.33E-10	0.00E+00	7.35E-09	1.96E-09	1.46E-09	4.83E-11	0.00E+00	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	762282.1	4070656.85	2.58E-08	2.21E-08	8.94E-10	0.00E+00	4.88E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.47E-09	1.99E-09	1.49E-09	4.91E-11	0.00E+00	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	762260.18	4070664.74	2.62E-08	2.24E-08	9.09E-10	0.00E+00	4.95E-08	3.99E-09	3.46E-09	1.38E-10	0.00E+00	7.59E-09	2.02E-09	1.51E-09	4.99E-11	0.00E+00	3.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	762238.26	4070672.62	2.66E-08	2.28E-08	9.23E-10	0.00E+00	5.03E-08	4.05E-09	3.51E-09	1.40E-10	0.00E+00	7.70E-09	2.05E-09	1.53E-09	5.07E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	762216.34	4070680.5	2.69E-08	2.31E-08	9.34E-10	0.00E+00	5.09E-08	4.10E-09	3.56E-09	1.42E-10	0.00E+00	7.80E-09	2.08E-09	1.55E-09	5.13E-11	0.00E+00	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	762194.42	4070688.38	2.74E-08	2.35E-08	9.52E-10	0.00E+00	5.19E-08	4.18E-09	3.63E-09	1.44E-10	0.00E+00	7.95E-09	2.12E-09	1.58E-09	5.23E-11	0.00E+00	3.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	762172.51	4070696.26	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	0.00E+00
879	762150.59	4070704.14	2.84E-08	2.44E-08	9.86E-10	0.00E+00	5.38E-08	4.33E-09	3.76E-09	1.49E-10	0.00E+00	8.23E-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	0.00E+00
880	762128.67	4070712.02	2.89E-08	2.48E-08	1.00E-09	0.00E+00	5.47E-08	4.40E-09	3.82E-09	1.52E-10	0.00E+00	8.37E-09	2.23E-09	1.67E-09	5.51E-11	0.00E+00	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	762106.75	4070719.9	2.94E-08	2.52E-08	1.02E-09	0.00E+00	5.56E-08	4.48E-09	3.89E-09	1.55E-10	0.00E+00	8.52E-09	2.27E-09	1.70E-09	5.61E-11	0.00E+00	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	762084.83	4070727.78	3.00E-08	2.57E-08	1.04E-09	0.00E+00	5.67E-08	4.57E-09	3.96E-09	1.58E-10	0.00E+00	8.69E-09	2.32E-09	1.73E-09	5.72E-11	0.00E+00	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	762536.79	4070299.6	7.19E-08	6.17E-08	2.50E-09	0.00E+00	1.36E-07	1.10E-08	9.51E-09	3.78E-10	0.00E+00	2.08E-08	5.56E-09	4.15E-09	1.37E-10	0.00E+00	9.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	762537.52	4070274.86	8.27E-08	7.09E-08	2.87E-09	0.00E+00	1.56E-07	1.26E-08	1.09E-08	4.35E-10	0.00E+00	2.40E-08	6.39E-09	4.77E-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
885	762538.26	4070250.12	9.46E-08	8.11E-08	3.28E-09	0.00E+00	1.79E-07	1.44E-08	1.25E-08	4.97E-10	0.00E+00	2.74E-08	7.31E-09	5.45E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	762538.99	4070225.38	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	0.00E+00
887	762539.72	4070200.63	1.28E-07	1.10E-07	4.45E-09	0.00E+00	2.42E-07	1.95E-08	1.69E-08	6.74E-10	0.00E+00	3.71E-08	9.90E-09	7.39E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	762540.45	4070175.89	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	8.73E-09	2.88E-10	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	762541.18	4070151.15	1.79E-07	1.53E-07	6.21E-09	0.00E+00	3.39E-07	2.73E-08	2.37E-08	9.41E-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	0.00E+00
890	762541.91	4070126.41	2.11E-07	1.81E-07	7.31E-09	0.00E+00	3.99E-07	3.21E-08	2.78E-08	1.11E-09	0.00E+00	6.10E-08	1.63E-08	1.22E-08	4.02E-10	0.00E+00	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	762542.64	4070101.66	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
892	762576.7	4070323.15	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	0.00E+00
893	762566.62	4070345.23	5.32E-08	4.56E-08	1.84E-09	0.00E+00	1.01E-07	8.10E-09	7.03E-09	2.80E-10	0.00E+00	1.54E-08	4.11E-09	3.07E-09	1.01E-10	0.00E+00	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	762556.54	4070367.3	4.87E-08	4.17E-08	1.69E-09	0.00E+00	9.21E-08	7.41E-09	6.43E-09	2.56E-10	0.00E+00	1.41E-08	3.76E-09	2.81E-09	9.28E-11	0.00E+00	6.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	762546.47	4070389.37	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	0.00E+00
896	762536.39	4070411.44	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	0.00E+00
897	762526.32	4070433.52	3.73E-08	3.19E-08	1.29E-09	0.00E+00	7.05E-08	5.68E-09	4.93E-09	1.96E-10	0.00E+00	1.08E-08	2.88E-09	2.15E-09	7.10E-11	0.00E+00	5.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	762516.24	4070455.59	3.47E-08	2.98E-08	1.20E-09	0.00E+00	6.57E-08	5.29E-09	4.59E-09	1.83E-10	0.00E+00	1.01E-08	2.68E-09	2.00E-09	6.62E-11	0.00E+00	4.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	762506.16	4070477.66	3.25E-08	2.78E-08	1.13E-09	0.00E+00	6.14E-08	4.95E-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+00	0.00E+00	0.00E+00	0.00E+00
900	762496.09	4070499.73	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	0.00E+00
901	762486.01	4070521.81	2.88E-08	2.47E-08	1.00E-09	0.00E+00	5.45E-08	4.39E-09	3.81E-09	1.52E-10	0.00E+00	8.35E-09	2.23E-09	1.66E-09	5.49E-11	0.00E+00	3.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	762475.94	4070543.88	2.71E-08	2.32E-08	9.41E-10	0.00E+00	5.13E-08	4.13E-09	3.58E-09	1.43E-10	0.00E+00	7.85E-09	2.09E-09	1.56E-09	5.17E-11	0.00E+00	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	762465.86	4070565.95	2.55E-08	2.19E-08	8.86E-10	0.00E+00	4.83E-08	3.89E-09	3.38E-09	1.34E-10	0.00E+00	7.40E-09	1.97E-09	1.47E-09	4.87E-11	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	762455.78	4070588.02	2.41E-08	2.07E-08	8.37E-10	0.00E+00	4.56E-08	3.67E-09	3.19E-09	1.27E-10	0.00E+00	6.99E-09	1.86E-09	1.39E-09	4.59E-11	0.00E+00	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	762445.71	4070610.1	2.28E-08	1.96E-08	7.92E-10	0.00E+00	4.32E-08	3.48E-09	3.02E-09	1.20E-10	0.00E+00	6.61E-09	1.76E-09	1.32E-09	4.35E-11	0.00E+00	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	762435.63	4070632.17	2.17E-08	1.86E-08	7.52E-10	0.00E+00	4.10E-08	3.30E-09	2.86E-09	1.14E-10	0.00E+00	6.28E-09	1.67E-09	1.25E-09	4.13E-11	0.00E+00	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	7.34E-09	2.43E-10	0.00E+00	1.74E-08	0.00E+00	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	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	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	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	7.22E-09	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	4.38E-11	0.00E+00	3.14E-09	0.00E+00	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	4.15E-11	0.00E+00	2.98E-09	0.00E+00	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	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	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	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	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	0.00E+00	0.00E+00	0.00E+00
950	762392.44	4070715.12	1.86E-08	1.59E-08	6.45E-10	0.00E+00	3.52E-08	2.83E-09	2.46E-09	9.78E-11	0.00E+00	5.39E-09	1.44E-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	0.00E+00
951	762370.11	4070723.14	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	0.00E+00
952	762347.79	4070731.17	1.91E-08	1.63E-08	6.62E-10	0.00E+00	3.61E-08	2.90E-09	2.52E-09	1.00E-10	0.00E+00	5.53E-09	1.47E-09	1.10E-09	3.63E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	762325.46	4070739.2	1.93E-08	1.65E-08	6.70E-10	0.00E+00	3.65E-08	2.94E-09	2.55E-09	1.02E-10	0.00E+00	5.59E-09	1.49E-09	1.11E-09	3.68E-11	0.00E+00	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	762303.13	4070747.22	1.94E-08	1.67E-08	6.75E-10	0.00E+00	3.68E-08	2.96E-09	2.57E-09	1.02E-10	0.00E+00	5.63E-09	1.50E-09	1.12E-09	3.71E-11	0.00E+00	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	762280.81	4070755.25	1.97E-08	1.69E-08	6.85E-10	0.00E+00	3.73E-08	3.01E-09	2.61E-09	1.04E-10	0.00E+00	5.72E-09	1.53E-09	1.14E-09	3.76E-11	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	762258.48	4070763.28	2.00E-08	1.72E-08	6.95E-10	0.00E+00	3.79E-08	3.05E-09	2.65E-09	1.05E-10	0.00E+00	5.80E-09	1.55E-09	1.16E-09	3.82E-11	0.00E+00	2.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	762236.16	4070771.31	2.03E-08	1.74E-08	7.04E-10	0.00E+00	3.84E-08	3.09E-09	2.68E-09	1.07E-10	0.00E+00	5.88E-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	0.00E+00
958	762213.83	4070779.33	2.06E-08	1.76E-08	7.14E-10	0.00E+00	3.89E-08	3.13E-09	2.72E-09	1.08E-10	0.00E+00	5.96E-09	1.59E-09	1.19E-09	3.92E-11	0.00E+00	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	762191.51	4070787.36	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
960	762169.18	4070795.39	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	0.00E+00
961	762146.86	4070803.41	2.14E-08	1.83E-08	7.42E-10	0.00E+00	4.04E-08	3.26E-09	2.83E-09	1.12E-10	0.00E+00	6.19E-09	1.65E-09	1.23E-09	4.07E-11	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	762124.53	4070811.44	2.17E-08	1.86E-08	7.52E-10	0.00E+00	4.10E-08	3.30E-09	2.87E-09	1.14E-10	0.00E+00	6.28E-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	0.00E+00
963	762102.21	4070819.47	2.20E-08	1.88E-08	7.63E-10	0.00E+00	4.16E-08	3.35E-09	2.90E-09	1.16E-10	0.00E+00	6.37E-09	1.70E-09	1.27E-09	4.19E-11	0.00E+00	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	762079.88	4070827.49	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	6.45E-09	1.72E-09	1.28E-09	4.24E-11	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	762636.75	4070302.56	5.74E-08	4.92E-08	1.99E-09	0.00E+00	1.09E-07	8.74E-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
966	762637.48	4070277.82	6.45E-08	5.53E-08	2.24E-09	0.00E+00	1.22E-07	9.83E-09	8.53E-09	3.39E-10	0.00E+00	1.87E-08	4.99E-09	3.72E-09	1.23E-10	0.00E+00	8.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	762638.21	4070253.07	7.29E-08	6.25E-08	2.53E-09	0.00E+00	1.38E-07	1.11E-08	9.64E-09	3.83E-10	0.00E+00	2.11E-08	5.63E-09	4.20E-09	1.39E-10	0.00E+00	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	762638.94	4070228.33	8.32E-08	7.13E-08	2.89E-09	0.00E+00	1.57E-07	1.27E-08	1.10E-08	4.38E-10	0.00E+00	2.41E-08	6.43E-09	4.80E-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
969	762639.67	4070203.59	9.59E-08	8.23E-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	7.41E-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	0.00E+00
970	762640.41	4070178.85	1.09E-07	9.39E-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	6.32E-09	2.09E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	762641.14	4070154.1	1.25E-07	1.08E-07	4.35E-09	0.00E+00	2.37E-07	1.91E-08	1.66E-08	6.60E-10	0.00E+00	3.64E-08	9.70E-09	7.24E-09	2.39E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	762641.87	4070129.36	1.44E-07	1.24E-07	5.00E-09	0.00E+00	2.73E-07	2.20E-08	1.91E-08	7.58E-10	0.00E+00	4.18E-08	1.11E-08	8.32E-09	2.75E-10	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	762642.6	4070104.62	1.66E-07	1.42E-07	5.76E-09	0.00E+00	3.14E-07	2.53E-08	2.20E-08	8.73E-10	0.00E+00	4.81E-08	1.28E-08	9.58E-09	3.17E-10	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	762676.55	4070326.34	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	0.00E+00
975	762666.36	4070348.64	4.50E-08	3.85E-08	1.56E-09	0.00E+00	8.51E-08	6.85E-09	5.94E-09	2.37E-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	0.00E+00
976	762656.18	4070370.95	4.14E-08	3.55E-08	1.44E-09	0.00E+00	7.84E-08	6.31E-09	5.47E-09	2.18E-10	0.00E+00	1.20E-08	3.20E-09	2.39E-09	7.89E-11	0.00E+00	5.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	762646	4070393.25	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	7.29E-11	0.00E+00	5.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	762635.82	4070415.56	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	0.00E+00
979	762625.64	4070437.86	3.29E-08	2.82E-08	1.14E-09	0.00E+00	6.22E-08	5.01E-09	4.34E-09	1.73E-10	0.00E+00	9.52E-09	2.54E-09	1.90E-09	6.26E-11	0.00E+00	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	762615.45	4070460.17	3.04E-08	2.61E-08	1.06E-09	0.00E+00	5.75E-08	4.63E-09	4.02E-09	1.60E-10	0.00E+00	8.81E-09	2.35E-09	1.75E-09	5.79E-11	0.00E+00	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	762605.27	4070482.47	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	0.00E+00
982	762595.09	4070504.78	2.67E-08	2.29E-08	9.26E-10	0.00E+00	5.05E-08	4.07E-09	3.53E-09	1.40E-10	0.00E+00	7.74E-09	2.06E-09	1.54E-09	5.09E-11	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	762584.91	4070527.08	2.51E-08	2.15E-08	8.71E-10	0.00E+00	4.75E-08	3.82E-09	3.32E-09	1.32E-10	0.00E+00	7.27E-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	0.00E+00
984	762574.72	4070549.39	2.37E-08	2.03E-08	8.21E-10	0.00E+00	4.48E-08	3.60E-09	3.13E-09	1.24E-10	0.00E+00	6.86E-09	1.83E-09	1.36E-09	4.51E-11	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	762564.54	4070571.69	2.24E-08	1.92E-08	7.77E-10	0.00E+00	4.23E-08	3.41E-09	2.96E-09	1.18E-10	0.00E+00	6.49E-09	1.73E-09	1.29E-09	4.27E-11	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	762554.36	4070594	2.12E-08	1.82E-08	7.36E-10	0.00E+00	4.01E-08	3.23E-09	2.80E-09	1.12E-10	0.00E+00	6.15E-09	1.64E-09	1.22E-09	4.04E-11	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	762544.18	4070616.3	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	5.83E-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
988	762534	4070638.61	1.91E-08	1.64E-08	6.63E-10	0.00E+00	3.61E-08	2.91E-09	2.53E-09	1.00E-10	0.00E+00	5.54E-09	1.48E-09	1.10E-09	3.64E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	762523.81	4070660.91	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
990	762513.63	4070683.22	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
991	762503.45	4070705.52	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	0.00E+00
992	762470.2	4070736.12	1.61E-08	1.38E-08	5.58E-10	0.00E+00	3.04E-08	2.45E-09	2.12E-09	8.45E-11	0.00E+00	4.66E-09	1.24E-09	9.27E-10	3.06E-11	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	762447.12	4070744.42	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	0.00E+00
994	762424.05	4070752.72	1.64E-08	1.41E-08	5.70E-10	0.00E+00	3.11E-08	2.50E-09	2.17E-09	8.64E-11	0.00E+00	4.76E-09	1.27E-09	9.47E-10	3.13E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	762400.98	4070761.01	1.66E-08	1.42E-08	5.77E-10	0.00E+00	3.14E-08	2.53E-09	2.20E-09	8.74E-11	0.00E+00	4.82E-09	1.28E-09	9.59E-10	3.17E-11	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	762377.9	4070769.31	1.68E-08	1.44E-08	5.84E-10	0.00E+00	3.18E-08	2.56E-09	2.22E-09	8.84E-11	0.00E+00	4.87E-09	1.30E-09	9.70E-10	3.20E-11	0.00E+00	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	762354.83	4070777.6	1.69E-08	1.45E-08	5.87E-10	0.00E+00	3.20E-08	2.58E-09	2.24E-09	8.90E-11	0.00E+00	4.90E-09	1.31E-09	9.76E-10	3.23E-11	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	762331.76	4070785.9	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	0.00E+00
999	762308.68	4070794.2	1.72E-08	1.48E-08	5.98E-10	0.00E+00	3.26E-08	2.63E-09	2.28E-09	9.07E-11	0.00E+00	5.00E-09	1.33E-09	9.94E-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
1000	762285.61	4070802.49	1.75E-08	1.50E-08	6.08E-10	0.00E+00	3.32E-08	2.67E-09	2.32E-09	9.22E-11	0.00E+00	5.08E-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	0.00E+00
1001	762262.54	4070810.79	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	0.00E+00
1002	762239.47	4070819.08	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	0.00E+00
1003	762216.39	4070827.38	1.82E-08	1.56E-08	6.33E-10	0.00E+00	3.45E-08	2.78E-09	2.41E-09	9.59E-11	0.00E+00	5.28E-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	0.00E+00
1004	762193.32	4070835.67	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
1005	762170.25	4070843.97	1.85E-08	1.58E-08	6.41E-10	0.00E+00	3.50E-08	2.82E-09	2.44E-09	9.72E-11	0.00E+00	5.36E-09	1.43E-09	1.07E-09	3.52E-11	0.00E+00	2.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	762147.17	4070852.27	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
1007	762124.1	4070860.56	1.90E-08	1.63E-08	6.60E-10	0.00E+00	3.60E-08	2.90E-09	2.51E-09	1.00E-10	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
1008	762101.03	4070868.86	1.93E-08	1.66E-08	6.71E-10	0.00E+00	3.66E-08	2.95E-09	2.56E-09	1.02E-10	0.00E+00	5.60E-09	1.49E-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
1009	762077.95	4070877.15	1.97E-08	1.69E-08	6.85E-10	0.00E+00	3.73E-08	3.01E-09	2.61E-09	1.04E-10	0.00E+00	5.72E-09	1.53E-09	1.14E-09	3.76E-11	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	762686.73	4070304.03	5.30E-08	4.54E-08	1.84E-09	0.00E+00	1.00E-07	8.07E-09	7.01E-09	2.79E-10	0.00E+00	1.54E-08	4.10E-09	3.06E-09	1.01E-10	0.00E+00	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	762687.46	4070279.29	5.94E-08	5.09E-08	2.06E-09	0.00E+00	1.12E-07	9.04E-09	7.85E-09	3.12E-10	0.00E+00	1.72E-08	4.59E-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	0.00E+00
1012	762688.19	4070254.55	6.70E-08	5.74E-08	2.32E-09	0.00E+00	1.27E-07	1.02E-08	8.85E-09	3.52E-10	0.00E+00	1.94E-08	5.18E-09	3.86E-09	1.28E-10	0.00E+00	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	762688.92	4070229.81	7.53E-08	6.46E-08	2.61E-09	0.00E+00	1.43E-07	1.15E-08	9.96E-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
1014	762689.65	4070205.06	8.49E-08	7.28E-08	2.95E-09	0.00E+00	1.61E-07	1.29E-08	1.12E-08	4.47E-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	0.00E+00
1015	762690.38	4070180.32	9.59E-08	8.22E-08	3.33E-09	0.00E+00	1.81E-07	1.46E-08	1.27E-08	5.05E-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	0.00E+00
1016	762691.12	4070155.58	1.09E-07	9.32E-08	3.77E-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	6.27E-09	2.07E-10	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	762691.85	4070130.84	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	0.00E+00
1018	762692.58	4070106.09	1.41E-07	1.21E-07	4.88E-09	0.00E+00	2.66E-07	2.14E-08	1.86E-08	7.39E-10	0.00E+00	4.07E-08	1.09E-08	8.11E-09	2.68E-10	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	762776.43	4070329.46	4.24E-08	3.64E-08	1.47E-09	0.00E+00	8.03E-08	6.47E-09	5.61E-09	2.23E-10	0.00E+00	1.23E-08	3.28E-09	2.45E-09	8.09E-11	0.00E+00	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	762766.17	4070351.94	3.93E-08	3.37E-08	1.36E-09	0.00E+00	7.44E-08	5.99E-09	5.20E-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	0.00E+00
1021	762755.91	4070374.41	3.65E-08	3.13E-08	1.27E-09	0.00E+00	6.90E-08	5.56E-09	4.82E-09	1.92E-10	0.00E+00	1.06E-08	2.82E-09	2.10E-09	6.95E-11	0.00E+00	4.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	762745.65	4070396.88	3.39E-08	2.91E-08	1.18E-09	0.00E+00	6.42E-08	5.17E-09	4.49E-09	1.78E-10	0.00E+00	9.83E-09	2.62E-09	1.96E-09	6.47E-11	0.00E+00	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	762735.39	4070419.36	3.16E-08	2.71E-08	1.10E-09	0.00E+00	5.98E-08	4.82E-09	4.18E-09	1.66E-10	0.00E+00	9.16E-09	2.44E-09	1.82E-09	6.03E-11	0.00E+00	4.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	762725.13	4070441.83	2.95E-08	2.53E-08	1.03E-09	0.00E+00	5.59E-08	4.50E-09	3.91E-09	1.55E-10	0.00E+00	8.56E-09	2.28E-09	1.70E-09	5.63E-11	0.00E+00	4.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	762714.87	4070464.31	2.76E-08	2.37E-08	9.59E-10	0.00E+00	5.23E-08	4.21E-09	3.65E-09	1.45E-10	0.00E+00	8.01E-09	2.14E-09	1.59E-09	5.27E-11	0.00E+00	3.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	762704.61	4070486.78	2.58E-08	2.22E-08	8.97E-10	0.00E+00	4.89E-08	3.94E-09	3.42E-09	1.36E-10	0.00E+00	7.49E-09	2.00E-09	1.49E-09	4.93E-11	0.00E+00	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	762694.35	4070509.25	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	0.00E+00
1028	762684.09	4070531.73	2.24E-08	1.92E-08	7.77E-10	0.00E+00	4.24E-08	3.41E-09	2.96E-09	1.18E-10	0.00E+00	6.49E-09	1.73E-09	1.29E-09	4.27E-11	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	762673.83	4070554.2	2.12E-08	1.82E-08	7.36E-10	0.00E+00	4.01E-08	3.23E-09	2.80E-09	1.11E-10	0.00E+00	6.14E-09	1.64E-09	1.22E-09	4.04E-11	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	762663.57	4070576.68	2.01E-08	1.72E-08	6.98E-10	0.00E+00	3.81E-08	3.06E-09	2.66E-09	1.06E-10	0.00E+00	5.83E-09	1.55E-09	1.16E-09	3.83E-11	0.00E+00	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	762653.31	4070599.15	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	0.00E+00
1032	762643.06	4070621.62	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	0.00E+00
1033	762632.8	4070644.1	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	0.00E+00
1034	762622.54	4070666.57	1.66E-08	1.42E-08	5.76E-10	0.00E+00	3.14E-08	2.53E-09	2.19E-09	8.73E-11	0.00E+00	4.81E-09	1.28E-09	9.58E-10	3.16E-11	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	762612.28	4070689.04	1.57E-08	1.35E-08	5.47E-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	9.08E-10	3.00E-11	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	762602.02	4070711.52	1.50E-08	1.28E-08	5.19E-10	0.00E+00	2.83E-08	2.28E-09	1.98E-09	7.86E-11	0.00E+00	4.33E-09	1.16E-09	8.62E-10	2.85E-11	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	762777.51	4070549.01	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	0.00E+00
1081	762767.59	4070570.74	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
1082	762757.67	4070592.47	1.83E-08	1.57E-08	6.34E-10	0.00E+00	3.46E-08	2.78E-09	2.41E-09	9.61E-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	0.00E+00
1083	762747.75	4070614.2	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	0.00E+00
1084	762737.83	4070635.94	1.67E-08	1.43E-08	5.78E-10	0.00E+00	3.15E-08	2.54E-09	2.20E-09	8.76E-11	0.00E+00	4.83E-09	1.29E-09	9.61E-10	3.17E-11	0.00E+00	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	762727.9	4070657.67	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	0.00E+00
1086	762717.98	4070679.4	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	0.00E+00
1087	762708.06	4070701.14	1.47E-08	1.26E-08	5.11E-10	0.00E+00	2.79E-08	2.24E-09	1.95E-09	7.74E-11	0.00E+00	4.27E-09	1.14E-09	8.49E-10	2.81E-11	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	762698.14	4070722.87	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	0.00E+00
1089	762688.22	4070744.6	1.35E-08	1.16E-08	4.68E-10	0.00E+00	2.55E-08	2.06E-09	1.78E-09	7.10E-11	0.00E+00	3.91E-09	1.04E-09	7.79E-10	2.57E-11	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	762678.3	4070766.34	1.29E-08	1.11E-08	4.49E-10	0.00E+00	2.45E-08	1.97E-09	1.71E-09	6.80E-11	0.00E+00	3.75E-09	9.99E-10	7.46E-10	2.46E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	762668.38	4070788.07	1.24E-08	1.06E-08	4.30E-10	0.00E+00	2.35E-08	1.89E-09	1.64E-09	6.52E-11	0.00E+00	3.59E-09	9.58E-10	7.15E-10	2.36E-11	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	762658.46	4070809.8	1.19E-08	1.02E-08	4.12E-10	0.00E+00	2.25E-08	1.81E-09	1.57E-09	6.25E-11	0.00E+00	3.44E-09	9.18E-10	6.85E-10	2.27E-11	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	762648.54	4070831.53	1.14E-08	9.81E-09	3.97E-10	0.00E+00	2.16E-08	1.74E-09	1.51E-09	6.02E-11	0.00E+00	3.32E-09	8.84E-10	6.60E-10	2.18E-11	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	762638.62	4070853.27	1.11E-08	9.49E-09	3.84E-10	0.00E+00	2.09E-08	1.69E-09	1.46E-09	5.82E-11	0.00E+00	3.21E-09	8.55E-10	6.38E-10	2.11E-11	0.00E+00	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	762606.21	4070883.08	1.08E-08	9.29E-09	3.76E-10	0.00E+00	2.05E-08	1.65E-09	1.43E-09	5.70E-11	0.00E+00	3.14E-09	8.38E-10	6.25E-10	2.07E-11	0.00E+00	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	762583.73	4070891.17	1.09E-08	9.35E-09	3.79E-10	0.00E+00	2.06E-08	1.66E-09	1.44E-09	5.74E-11	0.00E+00	3.16E-09	8.43E-10	6.29E-10	2.08E-11	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	762561.25	4070899.25	1.10E-08	9.43E-09	3.82E-10	0.00E+00	2.08E-08	1.68E-09	1.45E-09	5.78E-11	0.00E+00	3.19E-09	8.50E-10	6.34E-10	2.10E-11	0.00E+00	1.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	762538.77	4070907.33	1.11E-08	9.55E-09	3.87E-10	0.00E+00	2.11E-08	1.70E-09	1.47E-09	5.86E-11	0.00E+00	3.23E-09	8.61E-10	6.42E-10	2.12E-11	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	762516.29	4070915.42	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	0.00E+00
1100	762493.81	4070923.5	1.13E-08	9.69E-09	3.92E-10	0.00E+00	2.14E-08	1.72E-09	1.49E-09	5.94E-11	0.00E+00	3.27E-09	8.73E-10	6.52E-10	2.15E-11	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	762471.32	4070931.58	1.14E-08	9.75E-09	3.95E-10	0.00E+00	2.15E-08	1.73E-09	1.50E-09	5.98E-11	0.00E+00	3.29E-09	8.79E-10	6.56E-10	2.17E-11	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	762448.84	4070939.67	1.14E-08	9.81E-09	3.97E-10	0.00E+00	2.16E-08	1.74E-09	1.51E-09	6.02E-11	0.00E+00	3.32E-09	8.84E-10	6.60E-10	2.18E-11	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	762426.36	4070947.75	1.15E-08	9.90E-09	4.01E-10	0.00E+00	2.18E-08	1.76E-09	1.53E-09	6.07E-11	0.00E+00	3.35E-09	8.92E-10	6.66E-10	2.20E-11	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	762403.88	4070955.83	1.16E-08	9.96E-09	4.03E-10	0.00E+00	2.20E-08	1.77E-09	1.54E-09	6.11E-11	0.00E+00	3.37E-09	8.98E-10	6.70E-10	2.21E-11	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	762381.4	4070963.92	1.17E-08	1.00E-08	4.06E-10	0.00E+00	2.21E-08	1.78E-09	1.55E-09	6.15E-11	0.00E+00	3.39E-09	9.03E-10	6.74E-10	2.23E-11	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	762358.92	4070972	1.18E-08	1.01E-08	4.09E-10	0.00E+00	2.23E-08	1.79E-09	1.56E-09	6.19E-11	0.00E+00	3.41E-09	9.10E-10	6.79E-10	2.24E-11	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	762336.44	4070980.08	1.19E-08	1.02E-08	4.12E-10	0.00E+00	2.25E-08	1.81E-09	1.57E-09	6.25E-11	0.00E+00	3.44E-09	9.18E-10	6.85E-10	2.27E-11	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	762313.96	4070988.17	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	0.00E+00
1109	762291.47	4070996.25	1.21E-08	1.04E-08	4.19E-10	0.00E+00	2.29E-08	1.84E-09	1.60E-09	6.35E-11	0.00E+00	3.50E-09	9.33E-10	6.97E-10	2.30E-11	0.00E+00	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	762268.99	4071004.33	1.21E-08	1.04E-08	4.21E-10	0.00E+00	2.30E-08	1.85E-09	1.60E-09	6.38E-11	0.00E+00	3.52E-09	9.38E-10	7.00E-10	2.31E-11	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	762246.51	4071012.41	1.22E-08	1.05E-08	4.24E-10	0.00E+00	2.31E-08	1.86E-09	1.62E-09	6.43E-11	0.00E+00	3.54E-09	9.44E-10	7.05E-10	2.33E-11	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	762224.03	4071020.5	1.23E-08	1.06E-08	4.27E-10	0.00E+00	2.33E-08	1.88E-09	1.63E-09	6.47E-11	0.00E+00	3.57E-09	9.51E-10	7.10E-10	2.35E-11	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	762201.55	4071028.58	1.24E-08	1.07E-08	4.31E-10	0.00E+00	2.35E-08	1.89E-09	1.64E-09	6.54E-11	0.00E+00	3.60E-09	9.61E-10	7.17E-10	2.37E-11	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	762179.07	4071036.66	1.26E-08	1.08E-08	4.36E-10	0.00E+00	2.38E-08	1.91E-09	1.66E-09	6.61E-11	0.00E+00	3.64E-09	9.70E-10	7.24E-10	2.39E-11	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	762156.59	4071044.75	1.27E-08	1.09E-08	4.40E-10	0.00E+00	2.40E-08	1.93E-09	1.68E-09	6.67E-11	0.00E+00	3.68E-09	9.80E-10	7.31E-10	2.42E-11	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	762134.1	4071052.83	1.28E-08	1.10E-08	4.45E-10	0.00E+00	2.43E-08	1.95E-09	1.70E-09	6.75E-11	0.00E+00	3.72E-09	9.91E-10	7.40E-10	2.44E-11	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	762111.62	4071060.91	1.30E-08	1.11E-08	4.50E-10	0.00E+00	2.45E-08	1.98E-09	1.71E-09	6.82E-11	0.00E+00	3.76E-09	1.00E-09	7.48E-10	2.47E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	762089.14	4071069	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	0.00E+00
1119	762066.66	4071077.08	1.33E-08	1.14E-08	4.63E-10	0.00E+00	2.52E-08	2.03E-09	1.76E-09	7.02E-11	0.00E+00	3.87E-09	1.03E-09	7.69E-10	2.54E-11	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	762886.64	4070309.94	4.07E-08	3.49E-08	1.41E-09	0.00E+00	7.69E-08	6.20E-09	5.38E-09	2.14E-10	0.00E+00	1.18E-08	3.14E-09	2.35E-09	7.75E-11	0.00E+00	5.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	762887.37	4070285.2	4.47E-08	3.84E-08	1.55E-09	0.00E+00	8.46E-08	6.81E-09	5.91E-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	0.00E+00
1122	762888.1	4070260.46	4.88E-08	4.18E-08	1.69E-09	0.00E+00	9.23E-08	7.43E-09	6.45E-09	2.57E-10	0.00E+00	1.41E-08	3.77E-09	2.81E-09	9.30E-11	0.00E+00	6.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	762888.83	4070235.72	5.33E-08	4.57E-08	1.85E-09	0.00E+00	1.01E-07	8.12E-09	7.05E-09	2.80E-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	0.00E+00
1124	762889.57	4070210.97	5.85E-08	5.02E-08	2.03E-09	0.00E+00	1.11E-07	8.92E-09	7.74E-09	3.08E-10	0.00E+00	1.70E-08	4.52E-09	3.38E-09	1.12E-10	0.00E+00	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	762890.3	4070186.23	6.44E-08	5.52E-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	0.00E+00
1126	762891.03	4070161.49	7.08E-08	6.07E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.36E-09	3.73E-10	0.00E+00	2.05E-08	5.47E-09	4.08E-09	1.35E-10	0.00E+00	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	762891.76	4070136.75	7.82E-08	6.71E-08	2.72E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.12E-10	0.00E+00	2.27E-08	6.05E-09	4.51E-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
1128	762892.49	4070112	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
1129	762976.59	4070334.82	3.46E-08	2.97E-08	1.20E-09	0.00E+00	6.55E-08	5.27E-09	4.57E-09	1.82E-10	0.00E+00	1.00E-08	2.67E-09	2.00E-09	6.60E-11	0.00E+00	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	762966.58	4070356.74	3.24E-08	2.78E-08	1.13E-09	0.00E+00	6.13E-08	4.94E-09	4.29E-09	1.71E-10	0.00E+00	9.40E-09	2.51E-09	1.87E-09	6.18E-11	0.00E+00	4.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	762956.58	4070378.66	3.03E-08	2.60E-08	1.05E-09	0.00E+00	5.74E-08	4.62E-09	4.01E-09	1.60E-10	0.00E+00	8.79E-09	2.34E-09	1.75E-09	5.78E-11	0.00E+00	4.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	762946.57	4070400.58	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	0.00E+00
1133	762936.56	4070422.5	2.65E-08	2.27E-08	9.18E-10	0.00E+00	5.01E-08	4.03E-09	3.50E-09	1.39E-10	0.00E+00	7.67E-09	2.05E-09	1.53E-09	5.04E-11	0.00E+00	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	762926.56	4070444.42	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	0.00E+00
1135	762916.55	4070466.34	2.36E-08	2.03E-08	8.21E-10	0.00E+00	4.47E-08	3.60E-09	3.13E-09	1.24E-10	0.00E+00	6.85E-09	1.83E-09	1.36E-09	4.51E-11	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	762906.54	4070488.26	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	0.00E+00
1137	762896.54	4070510.18	2.16E-08	1.85E-08	7.49E-10	0.00E+00	4.08E-08	3.29E-09	2.85E-09	1.13E-10	0.00E+00	6.25E-09	1.67E-09	1.24E-09	4.11E-11	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	762886.53	4070532.1	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	0.00E+00
1139	762876.53	4070554.02	1.96E-08	1.68E-08	6.81E-10	0.00E+00	3.71E-08	2.99E-09	2.60E-09	1.03E-10	0.00E+00	5.69E-09	1.52E-09	1.13E-09	3.74E-11	0.00E+00	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	762866.52	4070575.94	1.86E-08	1.59E-08	6.45E-10	0.00E+00	3.52E-08	2.83E-09	2.46E-09	9.78E-11	0.00E+00	5.39E-09	1.44E-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	0.00E+00
1141	762856.51	4070597.86	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
1142	762846.51	4070619.78	1.68E-08	1.44E-08	5.83E-10	0.00E+00	3.18E-08	2.56E-09	2.22E-09	8.84E-11	0.00E+00	4.87E-09	1.30E-09	9.69E-10	3.20E-11	0.00E+00	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	762836.5	4070641.7	1.59E-08	1.37E-08	5.53E-10	0.00E+00	3.02E-08	2.43E-09	2.11E-09	8.39E-11	0.00E+00	4.62E-09	1.23E-09	9.20E-10	3.04E-11	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	762826.49	4070663.62	1.52E-08	1.31E-08	5.29E-10	0.00E+00	2.88E-08	2.32E-09	2.01E-09	8.01E-11	0.00E+00	4.42E-09	1.18E-09	8.79E-10	2.90E-11	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	762816.49	4070685.54	1.46E-08	1.25E-08	5.07E-10	0.00E+00	2.76E-08	2.22E-09	1.93E-09	7.68E-11	0.00E+00	4.23E-09	1.13E-09	8.42E-10	2.78E-11	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	762806.48	4070707.46	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	0.00E+00
1147	762796.47	4070729.38	1.35E-08	1.15E-08	4.67E-10	0.00E+00	2.55E-08	2.05E-09	1.78E-09	7.08E-11	0.00E+00	3.90E-09	1.04E-09	7.76E-10	2.57E-11	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	762786.47	4070751.3	1.29E-08	1.11E-08	4.48E-10	0.00E+00	2.44E-08	1.97E-09	1.71E-09	6.79E-11	0.00E+00	3.74E-09	9.98E-10	7.45E-10	2.46E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	762776.46	4070773.22	1.24E-08	1.06E-08	4.30E-10	0.00E+00	2.35E-08	1.89E-09	1.64E-09	6.52E-11	0.00E+00	3.59E-09	9.58E-10	7.15E-10	2.36E-11	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	762766.45	4070795.14	1.19E-08	1.02E-08	4.13E-10	0.00E+00	2.25E-08	1.81E-09	1.57E-09	6.26E-11	0.00E+00	3.45E-09	9.20E-10	6.86E-10	2.27E-11	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	762756.45	4070817.06	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	0.00E+00
1152	762746.44	4070838.99	1.10E-08	9.40E-09	3.80E-10	0.00E+00	2.07E-08	1.67E-09	1.45E-09	5.77E-11	0.00E+00	3.18E-09	8.47E-10	6.32E-10	2.09E-11	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	762736.43	4070860.91	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	0.00E+00
1154	762726.43	4070882.83	1.01E-08	8.70E-09	3.52E-10	0.00E+00	1.92E-08	1.55E-09	1.34E-09	5.34E-11	0.00E+00	2.94E-09	7.84E-10	5.85E-10	1.93E-11	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	762716.42	4070904.75	9.82E-09	8.42E-09	3.41E-10	0.00E+00	1.86E-08	1.50E-09	1.30E-09	5.17E-11	0.00E+00	2.85E-09	7.59E-10	5.67E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	762706.41	4070926.67	9.54E-09	8.18E-09	3.31E-10	0.00E+00	1.81E-08	1.45E-09	1.26E-09	5.02E-11	0.00E+00	2.77E-09	7.37E-10	5.50E-10	1.82E-11	0.00E+00	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	762673.73	4070956.74	9.36E-09	8.03E-09	3.25E-10	0.00E+00	1.77E-08	1.43E-09	1.24E-09	4.93E-11	0.00E+00	2.71E-09	7.24E-10	5.40E-10	1.79E-11	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	762651.06	4070964.89	9.40E-09	8.06E-09	3.26E-10	0.00E+00	1.78E-08	1.43E-09	1.24E-09	4.94E-11	0.00E+00	2.72E-09	7.26E-10	5.42E-10	1.79E-11	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	762628.38	4070973.05	9.45E-09	8.10E-09	3.28E-10	0.00E+00	1.79E-08	1.44E-09	1.25E-09	4.97E-11	0.00E+00	2.74E-09	7.31E-10	5.45E-10	1.80E-11	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	762605.71	4070981.2	9.52E-09	8.17E-09	3.31E-10	0.00E+00	1.80E-08	1.45E-09	1.26E-09	5.01E-11	0.00E+00	2.76E-09	7.36E-10	5.49E-10	1.82E-11	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	762583.03	4070989.35	9.61E-09	8.24E-09	3.34E-10	0.00E+00	1.82E-08	1.46E-09	1.27E-09	5.06E-11	0.00E+00	2.79E-09	7.43E-10	5.54E-10	1.83E-11	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	762560.36	4070997.5	9.68E-09	8.30E-09	3.36E-10	0.00E+00	1.83E-08	1.48E-09	1.28E-09	5.09E-11	0.00E+00	2.81E-09	7.48E-10	5.59E-10	1.85E-11	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	762537.68	4071005.66	9.75E-09	8.36E-09	3.39E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.13E-11	0.00E+00	2.83E-09	7.54E-10	5.63E-10	1.86E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	762515.01	4071013.81	9.79E-09	8.39E-09	3.40E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.15E-11	0.00E+00	2.84E-09	7.57E-10	5.65E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	762492.33	4071021.96	9.81E-09	8.41E-09	3.40E-10	0.00E+00	1.86E-08	1.49E-09	1.30E-09	5.16E-11	0.00E+00	2.84E-09	7.58E-10	5.66E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	762469.66	4071030.12	9.84E-09	8.44E-09	3.42E-10	0.00E+00	1.86E-08	1.50E-09	1.30E-09	5.18E-11	0.00E+00	2.85E-09	7.61E-10	5.68E-10	1.88E-11	0.00E+00	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	9.81E-10	3.24E-11	0.00E+00	2.33E-09	0.00E+00	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	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	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	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	762915.26	4070691.08	1.41E-08	1.21E-08	4.88E-10	0.00E+00	2.66E-08	2.14E-09	1.86E-09	7.40E-11	0.00E+00	4.08E-09	1.09E-09	8.11E-10	2.68E-11	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	762905.18	4070713.16	1.35E-08	1.16E-08	4.68E-10	0.00E+00	2.55E-08	2.05E-09	1.78E-09	7.09E-11	0.00E+00	3.91E-09	1.04E-09	7.78E-10	2.57E-11	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	762895.11	4070735.23	1.30E-08	1.11E-08	4.50E-10	0.00E+00	2.45E-08	1.98E-09	1.71E-09	6.82E-11	0.00E+00	3.76E-09	1.00E-09	7.48E-10	2.47E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	762885.03	4070757.3	1.25E-08	1.07E-08	4.33E-10	0.00E+00	2.36E-08	1.90E-09	1.65E-09	6.57E-11	0.00E+00	3.62E-09	9.65E-10	7.20E-10	2.38E-11	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	762874.96	4070779.38	1.20E-08	1.03E-08	4.17E-10	0.00E+00	2.27E-08	1.83E-09	1.59E-09	6.32E-11	0.00E+00	3.48E-09	9.28E-10	6.93E-10	2.29E-11	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	762864.88	4070801.45	1.16E-08	9.91E-09	4.01E-10	0.00E+00	2.19E-08	1.76E-09	1.53E-09	6.08E-11	0.00E+00	3.35E-09	8.94E-10	6.67E-10	2.20E-11	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	762854.8	4070823.52	1.11E-08	9.52E-09	3.85E-10	0.00E+00	2.10E-08	1.69E-09	1.47E-09	5.84E-11	0.00E+00	3.22E-09	8.58E-10	6.40E-10	2.12E-11	0.00E+00	1.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	762844.73	4070845.59	1.06E-08	9.12E-09	3.69E-10	0.00E+00	2.01E-08	1.62E-09	1.41E-09	5.60E-11	0.00E+00	3.08E-09	8.22E-10	6.14E-10	2.03E-11	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	762834.65	4070867.67	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	0.00E+00
1219	762824.58	4070889.74	9.81E-09	8.41E-09	3.40E-10	0.00E+00	1.86E-08	1.49E-09	1.30E-09	5.16E-11	0.00E+00	2.84E-09	7.58E-10	5.66E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	762814.5	4070911.81	9.45E-09	8.10E-09	3.28E-10	0.00E+00	1.79E-08	1.44E-09	1.25E-09	4.97E-11	0.00E+00	2.74E-09	7.31E-10	5.45E-10	1.80E-11	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	762804.42	4070933.88	9.17E-09	7.86E-09	3.18E-10	0.00E+00	1.73E-08	1.40E-09	1.21E-09	4.82E-11	0.00E+00	2.66E-09	7.09E-10	5.29E-10	1.75E-11	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	762794.35	4070955.96	8.89E-09	7.62E-09	3.08E-10	0.00E+00	1.68E-08	1.35E-09	1.17E-09	4.67E-11	0.00E+00	2.58E-09	6.87E-10	5.13E-10	1.69E-11	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	762784.27	4070978.03	8.65E-09	7.42E-09	3.00E-10	0.00E+00	1.64E-08	1.32E-09	1.14E-09	4.55E-11	0.00E+00	2.51E-09	6.69E-10	4.99E-10	1.65E-11	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	762774.2	4071000.1	8.44E-09	7.24E-09	2.93E-10	0.00E+00	1.60E-08	1.29E-09	1.12E-09	4.44E-11	0.00E+00	2.45E-09	6.52E-10	4.87E-10	1.61E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	762741.29	4071030.38	8.25E-09	7.07E-09	2.86E-10	0.00E+00	1.56E-08	1.26E-09	1.09E-09	4.34E-11	0.00E+00	2.39E-09	6.37E-10	4.76E-10	1.57E-11	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	762718.45	4071038.59	8.26E-09	7.09E-09	2.87E-10	0.00E+00	1.56E-08	1.26E-09	1.09E-09	4.35E-11	0.00E+00	2.40E-09	6.39E-10	4.77E-10	1.58E-11	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	762695.62	4071046.8	8.30E-09	7.12E-09	2.88E-10	0.00E+00	1.57E-08	1.26E-09	1.10E-09	4.37E-11	0.00E+00	2.41E-09	6.41E-10	4.79E-10	1.58E-11	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	762672.79	4071055.01	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	0.00E+00
1229	762649.96	4071063.22	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	0.00E+00
1230	762627.12	4071071.43	8.46E-09	7.25E-09	2.94E-10	0.00E+00	1.60E-08	1.29E-09	1.12E-09	4.45E-11	0.00E+00	2.45E-09	6.54E-10	4.88E-10	1.61E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	762604.29	4071079.64	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	0.00E+00
1232	762581.46	4071087.85	8.55E-09	7.33E-09	2.97E-10	0.00E+00	1.62E-08	1.30E-09	1.13E-09	4.50E-11	0.00E+00	2.48E-09	6.61E-10	4.93E-10	1.63E-11	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	762558.63	4071096.06	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	0.00E+00
1234	762535.79	4071104.27	8.62E-09	7.39E-09	2.99E-10	0.00E+00	1.63E-08	1.31E-09	1.14E-09	4.53E-11	0.00E+00	2.50E-09	6.66E-10	4.97E-10	1.64E-11	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	762512.96	4071112.48	8.64E-09	7.41E-09	3.00E-10	0.00E+00	1.63E-08	1.32E-09	1.14E-09	4.54E-11	0.00E+00	2.50E-09	6.68E-10	4.98E-10	1.65E-11	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	762490.13	4071120.69	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	0.00E+00
1237	762467.3	4071128.9	8.73E-09	7.48E-09	3.03E-10	0.00E+00	1.65E-08	1.33E-09	1.15E-09	4.59E-11	0.00E+00	2.53E-09	6.74E-10	5.03E-10	1.66E-11	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	762444.46	4071137.11	8.76E-09	7.51E-09	3.04E-10	0.00E+00	1.66E-08	1.33E-09	1.16E-09	4.61E-11	0.00E+00	2.54E-09	6.77E-10	5.05E-10	1.67E-11	0.00E+00	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	762421.63	4071145.32	8.81E-09	7.56E-09	3.06E-10	0.00E+00	1.67E-08	1.34E-09	1.17E-09	4.64E-11	0.00E+00	2.55E-09	6.81E-10	5.08E-10	1.68E-11	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	762398.8	4071153.53	8.87E-09	7.60E-09	3.08E-10	0.00E+00	1.68E-08	1.35E-09	1.17E-09	4.66E-11	0.00E+00	2.57E-09	6.85E-10	5.12E-10	1.69E-11	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	762375.97	4071161.73	8.94E-09	7.66E-09	3.10E-10	0.00E+00	1.69E-08	1.36E-09	1.18E-09	4.70E-11	0.00E+00	2.59E-09	6.91E-10	5.16E-10	1.70E-11	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	762353.13	4071169.94	8.99E-09	7.71E-09	3.12E-10	0.00E+00	1.70E-08	1.37E-09	1.19E-09	4.73E-11	0.00E+00	2.61E-09	6.95E-10	5.19E-10	1.71E-11	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	762330.3	4071178.15	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	0.00E+00
1244	762307.47	4071186.36	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	0.00E+00
1245	762284.64	4071194.57	9.15E-09	7.85E-09	3.18E-10	0.00E+00	1.73E-08	1.39E-09	1.21E-09	4.81E-11	0.00E+00	2.65E-09	7.07E-10	5.28E-10	1.74E-11	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	762261.8	4071202.78	9.17E-09	7.86E-09	3.18E-10	0.00E+00	1.73E-08	1.40E-09	1.21E-09	4.82E-11	0.00E+00	2.66E-09	7.09E-10	5.29E-10	1.75E-11	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	762238.97	4071210.99	9.20E-09	7.89E-09	3.19E-10	0.00E+00	1.74E-08	1.40E-09	1.22E-09	4.84E-11	0.00E+00	2.67E-09	7.11E-10	5.31E-10	1.75E-11	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	762216.14	4071219.2	9.24E-09	7.92E-09	3.21E-10	0.00E+00	1.75E-08	1.41E-09	1.22E-09	4.86E-11	0.00E+00	2.68E-09	7.14E-10	5.33E-10	1.76E-11	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	762193.3	4071227.41	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	0.00E+00
1250	762170.47	4071235.62	9.38E-09	8.04E-09	3.26E-10	0.00E+00	1.78E-08	1.43E-09	1.24E-09	4.94E-11	0.00E+00	2.72E-09	7.25E-10	5.41E-10	1.79E-11	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	762147.64	4071243.83	9.49E-09	8.14E-09	3.29E-10	0.00E+00	1.80E-08	1.45E-09	1.25E-09	4.99E-11	0.00E+00	2.75E-09	7.33E-10	5.47E-10	1.81E-11	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	762124.81	4071252.04	9.61E-09	8.24E-09	3.34E-10	0.00E+00	1.82E-08	1.46E-09	1.27E-09	5.06E-11	0.00E+00	2.79E-09	7.43E-10	5.54E-10	1.83E-11	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	762101.97	4071260.25	9.74E-09	8.35E-09	3.38E-10	0.00E+00	1.84E-08	1.48E-09	1.29E-09	5.12E-11	0.00E+00	2.82E-09	7.53E-10	5.62E-10	1.86E-11	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	762079.14	4071268.46	9.88E-09	8.47E-09	3.43E-10	0.00E+00	1.87E-08	1.51E-09	1.31E-09	5.20E-11	0.00E+00	2.86E-09	7.63E-10	5.70E-10	1.88E-11	0.00E+00	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	762056.31	4071276.67	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	0.00E+00
1256	763086.55	4070315.85	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	6.49E-11	0.00E+00	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	763087.28	4070291.11	3.67E-08	3.15E-08	1.27E-09	0.00E+00	6.95E-08	5.59E-09	4.85E-09	1.93E-10	0.00E+00	1.06E-08	2.84E-09	2.12E-09	7.00E-11	0.00E+00	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	763088.02	4070266.37	3.98E-08	3.41E-08	1.38E-09	0.00E+00	7.53E-08	6.06E-09	5.26E-09	2.09E-10	0.00E+00	1.15E-08	3.07E-09	2.29E-09	7.58E-11	0.00E+00	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	763088.75	4070241.62	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
1260	763089.48	4070216.88	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	0.00E+00
1261	763090.21	4070192.14	5.06E-08	4.34E-08	1.76E-09	0.00E+00	9.57E-08	7.71E-09	6.69E-09	2.66E-10	0.00E+00	1.47E-08	3.91E-09	2.92E-09	9.64E-11	0.00E+00	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	763090.94	4070167.4	5.47E-08	4.69E-08	1.90E-09	0.00E+00	1.03E-07	8.33E-09	7.23E-09	2.88E-10	0.00E+00	1.58E-08	4.23E-09	3.15E-09	1.04E-10	0.00E+00	7.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	763091.67	4070142.65	5.93E-08	5.08E-08	2.06E-09	0.00E+00	1.12E-07	9.04E-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	0.00E+00
1264	763092.4	4070117.91	6.42E-08	5.51E-08	2.23E-09	0.00E+00	1.22E-07	9.78E-09	8.49E-09	3.38E-10	0.00E+00	1.86E-08	4.96E-09	3.70E-09	1.22E-10	0.00E+00	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	763176.38	4070341	2.98E-08	2.56E-08	1.03E-09	0.00E+00	5.64E-08	4.54E-09	3.94E-09	1.57E-10	0.00E+00	8.64E-09	2.30E-09	1.72E-09	5.68E-11	0.00E+00	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	763166.24	4070363.2	2.82E-08	2.41E-08	9.77E-10	0.00E+00	5.33E-08	4.29E-09	3.72E-09	1.48E-10	0.00E+00	8.16E-09	2.18E-09	1.62E-09	5.37E-11	0.00E+00	3.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	763156.11	4070385.4	2.66E-08	2.28E-08	9.23E-10	0.00E+00	5.03E-08	4.05E-09	3.52E-09	1.40E-10	0.00E+00	7.71E-09	2.06E-09	1.53E-09	5.07E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	763145.98	4070407.6	2.51E-08	2.15E-08	8.72E-10	0.00E+00	4.75E-08	3.83E-09	3.32E-09	1.32E-10	0.00E+00	7.28E-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	0.00E+00
1269	763135.84	4070429.8	2.36E-08	2.02E-08	8.19E-10	0.00E+00	4.47E-08	3.60E-09	3.12E-09	1.24E-10	0.00E+00	6.84E-09	1.82E-09	1.36E-09	4.50E-11	0.00E+00	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	763125.71	4070452	2.22E-08	1.90E-08	7.70E-10	0.00E+00	4.20E-08	3.38E-09	2.93E-09	1.17E-10	0.00E+00	6.43E-09	1.71E-09	1.28E-09	4.23E-11	0.00E+00	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	763115.57	4070474.2	2.10E-08	1.80E-08	7.29E-10	0.00E+00	3.98E-08	3.20E-09	2.78E-09	1.11E-10	0.00E+00	6.09E-09	1.62E-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
1272	763105.44	4070496.4	2.00E-08	1.72E-08	6.96E-10	0.00E+00	3.79E-08	3.05E-09	2.65E-09	1.05E-10	0.00E+00	5.81E-09	1.55E-09	1.16E-09	3.82E-11	0.00E+00	2.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	763095.31	4070518.59	1.92E-08	1.65E-08	6.66E-10	0.00E+00	3.63E-08	2.92E-09	2.54E-09	1.01E-10	0.00E+00	5.56E-09	1.48E-09	1.11E-09	3.66E-11	0.00E+00	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	763085.17	4070540.79	1.83E-08	1.57E-08	6.36E-10	0.00E+00	3.47E-08	2.79E-09	2.42E-09	9.65E-11	0.00E+00	5.31E-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	0.00E+00
1275	763075.04	4070562.99	1.76E-08	1.51E-08	6.12E-10	0.00E+00	3.34E-08	2.69E-09	2.33E-09	9.27E-11	0.00E+00	5.11E-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
1276	763064.91	4070585.19	1.70E-08	1.46E-08	5.89E-10	0.00E+00	3.21E-08	2.59E-09	2.24E-09	8.93E-11	0.00E+00	4.92E-09	1.31E-09	9.79E-10	3.24E-11	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	763054.77	4070607.39	1.64E-08	1.40E-08	5.68E-10	0.00E+00	3.09E-08	2.49E-09	2.16E-09	8.60E-11	0.00E+00	4.74E-09	1.26E-09	9.43E-10	3.12E-11	0.00E+00	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	763044.64	4070629.59	1.57E-08	1.35E-08	5.45E-10	0.00E+00	2.97E-08	2.39E-09	2.08E-09	8.27E-11	0.00E+00	4.55E-09	1.21E-09	9.06E-10	3.00E-11	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	763034.51	4070651.79	1.51E-08	1.29E-08	5.24E-10	0.00E+00	2.86E-08	2.30E-09	2.00E-09	7.94E-11	0.00E+00	4.37E-09	1.17E-09	8.71E-10	2.88E-11	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	763024.37	4070673.98	1.45E-08	1.24E-08	5.04E-10	0.00E+00	2.74E-08	2.21E-09	1.92E-09	7.63E-11	0.00E+00	4.20E-09	1.12E-09	8.37E-10	2.77E-11	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	763014.24	4070696.18	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
1282	763004.1	4070718.38	1.33E-08	1.14E-08	4.63E-10	0.00E+00	2.52E-08	2.03E-09	1.76E-09	7.02E-11	0.00E+00	3.87E-09	1.03E-09	7.69E-10	2.54E-11	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	762993.97	4070740.58	1.27E-08	1.09E-08	4.42E-10	0.00E+00	2.41E-08	1.94E-09	1.68E-09	6.70E-11	0.00E+00	3.69E-09	9.84E-10	7.35E-10	2.43E-11	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	762983.84	4070762.78	1.22E-08	1.05E-08	4.23E-10	0.00E+00	2.31E-08	1.86E-09	1.61E-09	6.42E-11	0.00E+00	3.54E-09	9.43E-10	7.04E-10	2.33E-11	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	762973.7	4070784.98	1.18E-08	1.01E-08	4.08E-10	0.00E+00	2.22E-08	1.79E-09	1.55E-09	6.19E-11	0.00E+00	3.41E-09	9.09E-10	6.78E-10	2.24E-11	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	762963.57	4070807.18	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	0.00E+00
1287	762953.44	4070829.38	1.09E-08	9.34E-09	3.78E-10	0.00E+00	2.06E-08	1.66E-09	1.44E-09	5.73E-11	0.00E+00	3.16E-09	8.42E-10	6.28E-10	2.08E-11	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	762943.3	4070851.57	1.05E-08	8.97E-09	3.63E-10	0.00E+00	1.98E-08	1.59E-09	1.38E-09	5.50E-11	0.00E+00	3.03E-09	8.09E-10	6.04E-10	1.99E-11	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	762933.17	4070873.77	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	0.00E+00
1290	762923.04	4070895.97	9.72E-09	8.33E-09	3.37E-10	0.00E+00	1.84E-08	1.48E-09	1.28E-09	5.11E-11	0.00E+00	2.82E-09	7.51E-10	5.61E-10	1.85E-11	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	762912.9	4070918.17	9.36E-09	8.03E-09	3.25E-10	0.00E+00	1.77E-08	1.43E-09	1.24E-09	4.93E-11	0.00E+00	2.71E-09	7.24E-10	5.40E-10	1.79E-11	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	762902.77	4070940.37	9.03E-09	7.74E-09	3.13E-10	0.00E+00	1.71E-08	1.38E-09	1.19E-09	4.75E-11	0.00E+00	2.62E-09	6.98E-10	5.21E-10	1.72E-11	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	762892.63	4070962.57	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	0.00E+00
1294	762882.5	4070984.77	8.44E-09	7.24E-09	2.93E-10	0.00E+00	1.60E-08	1.29E-09	1.12E-09	4.44E-11	0.00E+00	2.45E-09	6.52E-10	4.87E-10	1.61E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	762872.37	4071006.96	8.18E-09	7.01E-09	2.84E-10	0.00E+00	1.55E-08	1.25E-09	1.08E-09	4.30E-11	0.00E+00	2.37E-09	6.32E-10	4.72E-10	1.56E-11	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	762862.23	4071029.16	7.95E-09	6.81E-09	2.76E-10	0.00E+00	1.50E-08	1.21E-09	1.05E-09	4.18E-11	0.00E+00	2.30E-09	6.14E-10	4.58E-10	1.51E-11	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	6.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	763191.63	4070145.61	5.37E-08	4.60E-08	1.86E-09	0.00E+00	1.02E-07	8.18E-09	7.10E-09	2.82E-10	0.00E+00	1.56E-08	4.15E-09	3.10E-09	1.02E-10	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	763192.36	4070120.87	5.76E-08	4.94E-08	2.00E-09	0.00E+00	1.09E-07	8.78E-09	7.62E-09	3.03E-10	0.00E+00	1.67E-08	4.45E-09	3.32E-09	1.10E-10	0.00E+00	7.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	763276.28	4070344.06	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	0.00E+00
1343	763266.1	4070366.37	2.62E-08	2.25E-08	9.10E-10	0.00E+00	4.96E-08	4.00E-09	3.47E-09	1.38E-10	0.00E+00	7.60E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	763255.92	4070388.67	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	7.21E-09	1.92E-09	1.44E-09	4.74E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	763245.74	4070410.98	2.37E-08	2.03E-08	8.22E-10	0.00E+00	4.48E-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	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	763235.56	4070433.28	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	0.00E+00
1347	763225.37	4070455.59	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	0.00E+00
1348	763215.19	4070477.89	2.03E-08	1.74E-08	7.06E-10	0.00E+00	3.85E-08	3.10E-09	2.69E-09	1.07E-10	0.00E+00	5.90E-09	1.57E-09	1.17E-09	3.88E-11	0.00E+00	2.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	763205.01	4070500.2	1.93E-08	1.66E-08	6.71E-10	0.00E+00	3.66E-08	2.95E-09	2.56E-09	1.02E-10	0.00E+00	5.60E-09	1.49E-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
1350	763194.83	4070522.5	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	3.51E-11	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	763184.65	4070544.81	1.76E-08	1.51E-08	6.09E-10	0.00E+00	3.32E-08	2.68E-09	2.32E-09	9.24E-11	0.00E+00	5.09E-09	1.36E-09	1.01E-09	3.35E-11	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	763174.46	4070567.11	1.68E-08	1.44E-08	5.83E-10	0.00E+00	3.18E-08	2.56E-09	2.22E-09	8.84E-11	0.00E+00	4.87E-09	1.30E-09	9.69E-10	3.20E-11	0.00E+00	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	763164.28	4070589.42	1.61E-08	1.38E-08	5.58E-10	0.00E+00	3.04E-08	2.45E-09	2.13E-09	8.46E-11	0.00E+00	4.66E-09	1.24E-09	9.28E-10	3.07E-11	0.00E+00	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	763154.1	4070611.72	1.55E-08	1.33E-08	5.37E-10	0.00E+00	2.93E-08	2.36E-09	2.04E-09	8.14E-11	0.00E+00	4.48E-09	1.20E-09	8.92E-10	2.95E-11	0.00E+00	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	763143.92	4070634.03	1.49E-08	1.28E-08	5.18E-10	0.00E+00	2.82E-08	2.27E-09	1.97E-09	7.85E-11	0.00E+00	4.32E-09	1.15E-09	8.60E-10	2.84E-11	0.00E+00	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	763133.73	4070656.33	1.44E-08	1.24E-08	5.01E-10	0.00E+00	2.73E-08	2.20E-09	1.91E-09	7.59E-11	0.00E+00	4.18E-09	1.12E-09	8.33E-10	2.75E-11	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	763123.55	4070678.64	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	0.00E+00
1358	763113.37	4070700.94	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	0.00E+00
1359	763103.19	4070723.25	1.31E-08	1.12E-08	4.54E-10	0.00E+00	2.48E-08	1.99E-09	1.73E-09	6.89E-11	0.00E+00	3.79E-09	1.01E-09	7.55E-10	2.49E-11	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	763093.01	4070745.55	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	0.00E+00
1361	763082.82	4070767.86	1.22E-08	1.04E-08	4.22E-10	0.00E+00	2.30E-08	1.85E-09	1.61E-09	6.40E-11	0.00E+00	3.53E-09	9.40E-10	7.02E-10	2.32E-11	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	763072.64	4070790.16	1.17E-08	1.01E-08	4.07E-10	0.00E+00	2.22E-08	1.79E-09	1.55E-09	6.17E-11	0.00E+00	3.40E-09	9.06E-10	6.76E-10	2.23E-11	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	763062.46	4070812.47	1.13E-08	9.69E-09	3.92E-10	0.00E+00	2.14E-08	1.72E-09	1.49E-09	5.94E-11	0.00E+00	3.27E-09	8.73E-10	6.52E-10	2.15E-11	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	763052.28	4070834.77	1.09E-08	9.34E-09	3.78E-10	0.00E+00	2.06E-08	1.66E-09	1.44E-09	5.73E-11	0.00E+00	3.16E-09	8.42E-10	6.28E-10	2.08E-11	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	763042.1	4070857.08	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	0.00E+00
1366	763031.91	4070879.38	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	0.00E+00
1367	763021.73	4070901.69	9.75E-09	8.36E-09	3.39E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.13E-11	0.00E+00	2.83E-09	7.54E-10	5.63E-10	1.86E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	763011.55	4070923.99	9.36E-09	8.03E-09	3.25E-10	0.00E+00	1.77E-08	1.43E-09	1.24E-09	4.93E-11	0.00E+00	2.71E-09	7.24E-10	5.40E-10	1.79E-11	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	763001.37	4070946.3	8.99E-09	7.71E-09	3.12E-10	0.00E+00	1.70E-08	1.37E-09	1.19E-09	4.73E-11	0.00E+00	2.61E-09	6.95E-10	5.19E-10	1.71E-11	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	762991.19	4070968.6	8.64E-09	7.41E-09	3.00E-10	0.00E+00	1.63E-08	1.32E-09	1.14E-09	4.54E-11	0.00E+00	2.50E-09	6.68E-10	4.98E-10	1.65E-11	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	762981	4070990.91	8.30E-09	7.12E-09	2.88E-10	0.00E+00	1.57E-08	1.26E-09	1.10E-09	4.37E-11	0.00E+00	2.41E-09	6.41E-10	4.79E-10	1.58E-11	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	762970.82	4071013.21	8.00E-09	6.86E-09	2.78E-10	0.00E+00	1.51E-08	1.22E-09	1.06E-09	4.21E-11	0.00E+00	2.32E-09	6.18E-10	4.61E-10	1.52E-11	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	762960.64	4071035.52	7.75E-09	6.65E-09	2.69E-10	0.00E+00	1.47E-08	1.18E-09	1.02E-09	4.08E-11	0.00E+00	2.25E-09	5.99E-10	4.47E-10	1.48E-11	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	762950.46	4071057.82	7.54E-09	6.46E-09	2.62E-10	0.00E+00	1.43E-08	1.15E-09	9.96E-10	3.97E-11	0.00E+00	2.18E-09	5.83E-10	4.35E-10	1.44E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	762940.27	4071080.13	7.34E-09	6.30E-09	2.55E-10	0.00E+00	1.39E-08	1.12E-09	9.71E-10	3.86E-11	0.00E+00	2.13E-09	5.67E-10	4.24E-10	1.40E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	762930.09	4071102.43	7.16E-09	6.14E-09	2.49E-10	0.00E+00	1.36E-08	1.09E-09	9.47E-10	3.77E-11	0.00E+00	2.08E-09	5.54E-10	4.13E-10	1.37E-11	0.00E+00	9.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	762919.91	4071124.74	6.99E-09	5.99E-09	2.43E-10	0.00E+00	1.32E-08	1.06E-09	9.24E-10	3.68E-11	0.00E+00	2.03E-09	5.40E-10	4.03E-10	1.33E-11	0.00E+00	9.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	762909.73	4071147.04	6.83E-09	5.85E-09	2.37E-10	0.00E+00	1.29E-08	1.04E-09	9.03E-10	3.59E-11	0.00E+00	1.98E-09	5.28E-10	3.94E-10	1.30E-11	0.00E+00	9.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	762876.47	4071177.64	6.67E-09	5.72E-09	2.31E-10	0.00E+00	1.26E-08	1.02E-09	8.82E-10	3.51E-11	0.00E+00	1.93E-09	5.15E-10	3.85E-10	1.27E-11	0.00E+00	9.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	762853.4	4071185.94	6.67E-09	5.72E-09	2.31E-10	0.00E+00	1.26E-08	1.02E-09	8.82E-10	3.51E-11	0.00E+00	1.93E-09	5.15E-10	3.85E-10	1.27E-11	0.00E+00	9.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	762830.33	4071194.23	6.69E-09	5.73E-09	2.32E-10	0.00E+00	1.27E-08	1.02E-09	8.84E-10	3.52E-11	0.00E+00	1.94E-09	5.17E-10	3.86E-10	1.27E-11	0.00E+00	9.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	762807.25	4071202.53	6.70E-09	5.75E-09	2.33E-10	0.00E+00	1.27E-08	1.02E-09	8.86E-10	3.53E-11	0.00E+00	1.94E-09	5.18E-10	3.87E-10	1.28E-11	0.00E+00	9.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	762784.18	4071210.83	6.74E-09	5.78E-09	2.34E-10	0.00E+00	1.28E-08	1.03E-09	8.91E-10	3.55E-11	0.00E+00	1.95E-09	5.21E-10	3.89E-10	1.28E-11	0.00E+00	9.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	762761.11	4071219.12	6.76E-09	5.79E-09	2.35E-10	0.00E+00	1.28E-08	1.03E-09	8.93E-10	3.55E-11	0.00E+00	1.96E-09	5.22E-10	3.90E-10	1.29E-11	0.00E+00	9.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	762738.04	4071227.42	6.77E-09	5.81E-09	2.35E-10	0.00E+00	1.28E-08	1.03E-09	8.96E-10	3.56E-11	0.00E+00	1.96E-09	5.24E-10	3.91E-10	1.29E-11	0.00E+00	9.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	762714.96	4071235.71	6.77E-09	5.81E-09	2.35E-10	0.00E+00	1.28E-08	1.03E-09	8.96E-10	3.56E-11	0.00E+00	1.96E-09	5.24E-10	3.91E-10	1.29E-11	0.00E+00	9.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	762691.89	4071244.01	6.77E-09	5.81E-09	2.35E-10	0.00E+00	1.28E-08	1.03E-09	8.96E-10	3.56E-11	0.00E+00	1.96E-09	5.24E-10	3.91E-10	1.29E-11	0.00E+00	9.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	762668.82	4071252.31	6.79E-09	5.82E-09	2.36E-10	0.00E+00	1.29E-08	1.03E-09	8.98E-10	3.57E-11	0.00E+00	1.97E-09	5.25E-10	3.92E-10	1.29E-11	0.00E+00	9.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	762645.74	4071260.6	6.81E-09	5.84E-09	2.36E-10	0.00E+00	1.29E-08	1.04E-09	9.00E-10	3.58E-11	0.00E+00	1.97E-09	5.26E-10	3.93E-10	1.30E-11	0.00E+00	9.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	762622.67	4071268.9	6.83E-09	5.85E-09	2.37E-10	0.00E+00	1.29E-08	1.04E-09	9.03E-10	3.59E-11	0.00E+00	1.98E-09	5.28E-10	3.94E-10	1.30E-11	0.00E+00	9.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	762599.6	4071277.19	6.88E-09	5.90E-09	2.39E-10	0.00E+00	1.30E-08	1.05E-09	9.10E-10	3.62E-11	0.00E+00	1.99E-09	5.32E-10	3.97E-10	1.31E-11	0.00E+00	9.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	762576.52	4071285.49	6.88E-09	5.90E-09	2.39E-10	0.00E+00	1.30E-08	1.05E-09	9.10E-10	3.62E-11	0.00E+00	1.99E-09	5.32E-10	3.97E-10	1.31E-11	0.00E+00	9.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	762553.45	4071293.78	6.90E-09	5.92E-09	2.39E-10	0.00E+00	1.31E-08	1.05E-09	9.12E-10	3.63E-11	0.00E+00	2.00E-09	5.33E-10	3.98E-10	1.32E-11	0.00E+00	9.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	762530.38	4071302.08	6.92E-09	5.93E-09	2.40E-10	0.00E+00	1.31E-08	1.05E-09	9.14E-10	3.64E-11	0.00E+00	2.00E-09	5.35E-10	3.99E-10	1.32E-11	0.00E+00	9.47E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	762507.31	4071310.38	6.93E-09	5.95E-09	2.41E-10	0.00E+00	1.31E-08	1.06E-09	9.17E-10	3.65E-11	0.00E+00	2.01E-09	5.36E-10	4.00E-10	1.32E-11	0.00E+00	9.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	762484.23	4071318.67	6.97E-09	5.98E-09	2.42E-10	0.00E+00	1.32E-08	1.06E-09	9.21E-10	3.67E-11	0.00E+00	2.02E-09	5.39E-10	4.02E-10	1.33E-11	0.00E+00	9.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	762461.16	4071326.97	7.04E-09	6.04E-09	2.44E-10	0.00E+00	1.33E-08	1.07E-09	9.31E-10	3.70E-11	0.00E+00	2.04E-09	5.44E-10	4.06E-10	1.34E-11	0.00E+00	9.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	762438.09	4071335.26	7.11E-09	6.10E-09	2.47E-10	0.00E+00	1.35E-08	1.08E-09	9.40E-10	3.74E-11	0.00E+00	2.06E-09	5.50E-10	4.10E-10	1.36E-11	0.00E+00	9.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	762415.01	4071343.56	7.15E-09	6.13E-09	2.48E-10	0.00E+00	1.35E-08	1.09E-09	9.45E-10	3.76E-11	0.00E+00	2.07E-09	5.52E-10	4.12E-10	1.36E-11	0.00E+00	9.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	762391.94	4071351.86	7.18E-09	6.16E-09	2.49E-10	0.00E+00	1.36E-08	1.09E-09	9.50E-10	3.78E-11	0.00E+00	2.08E-09	5.55E-10	4.14E-10	1.37E-11	0.00E+00	9.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	762368.87	4071360.15	7.22E-09	6.19E-09	2.51E-10	0.00E+00	1.37E-08	1.10E-09	9.54E-10	3.80E-11	0.00E+00	2.09E-09	5.58E-10	4.16E-10	1.38E-11	0.00E+00	9.88E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	762345.79	4071368.45	7.24E-09	6.20E-09	2.51E-10	0.00E+00	1.37E-08	1.10E-09	9.57E-10	3.81E-11	0.00E+00	2.10E-09	5.59E-10	4.17E-10	1.38E-11	0.00E+00	9.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	762322.72	4071376.74	7.25E-09	6.22E-09	2.52E-10	0.00E+00	1.37E-08	1.11E-09	9.59E-10	3.82E-11	0.00E+00	2.10E-09	5.61E-10	4.18E-10	1.38E-11	0.00E+00	9.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	762299.65	4071385.04	7.29E-09	6.25E-09	2.53E-10	0.00E+00	1.38E-08	1.11E-09	9.64E-10	3.83E-11	0.00E+00	2.11E-09	5.63E-10	4.20E-10	1.39E-11	0.00E+00	9.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	762276.58	4071393.34	7.34E-09	6.30E-09	2.55E-10	0.00E+00	1.39E-08	1.12E-09	9.71E-10	3.86E-11	0.00E+00	2.13E-09	5.67E-10	4.24E-10	1.40E-11	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	762253.5	4071401.63	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	0.00E+00
1407	762230.43	4071409.93	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	0.00E+00
1408	762207.36	4071418.22	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	0.00E+00
1409	762184.28	4071426.52	7.52E-09	6.45E-09	2.61E-10	0.00E+00	1.42E-08	1.15E-09	9.94E-10	3.96E-11	0.00E+00	2.18E-09	5.81E-10	4.34E-10	1.43E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	762161.21	4071434.82	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	0.00E+00
1411	762138.14	4071443.11	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	0.00E+00
1412	762115.07	4071451.41	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
1413	762091.99	4071459.7	7.82E-09	6.71E-09	2.71E-10	0.00E+00	1.48E-08	1.19E-09	1.03E-09	4.11E-11	0.00E+00	2.27E-09	6.04E-10	4.51E-10	1.49E-11	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	762068.92	4071468	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	0.00E+00
1415	762045.85	4071476.29	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	0.00E+00
1416	763286.47	4070321.76	2.92E-08	2.50E-08	1.01E-09	0.00E+00	5.52E-08	4.45E-09	3.86E-09	1.54E-10	0.00E+00	8.46E-09	2.26E-09	1.68E-09	5.56E-11	0.00E+00	4.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	763287.2	4070297.02	3.13E-08	2.68E-08	1.09E-09	0.00E+00	5.92E-08	4.76E-09	4.13E-09	1.64E-10	0.00E+00	9.06E-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	0.00E+00	0.00E+00
1418	763287.93	4070272.27	3.36E-08	2.88E-08	1.17E-09	0.00E+00	6.35E-08	5.12E-09	4.44E-09	1.77E-10	0.00E+00	9.73E-09	2.59E-09	1.94E-09	6.40E-11	0.00E+00	4.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	763288.66	4070247.53	3.60E-08	3.09E-08	1.25E-09	0.00E+00	6.82E-08	5.49E-09	4.76E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.08E-09	6.87E-11	0.00E+00	4.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	763289.39	4070222.79	3.87E-08	3.32E-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	0.00E+00
1421	763290.12	4070198.05	4.16E-08	3.57E-08	1.44E-09	0.00E+00	7.88E-08	6.34E-09	5.50E-09	2.19E-10	0.00E+00	1.21E-08	3.22E-09	2.40E-09	7.93E-11	0.00E+00	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	763290.85	4070173.3	4.47E-08	3.83E-08	1.55E-09	0.00E+00	8.45E-08	6.80E-09	5.90E-09	2.35E-10	0.00E+00	1.29E-08	3.45E-09	2.58E-09	8.51E-11	0.00E+00	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	763291.59	4070148.56	4.78E-08	4.10E-08	1.66E-09	0.00E+00	9.05E-08	7.29E-09	6.33E-09	2.52E-10	0.00E+00	1.39E-08	3.70E-09	2.76E-09	9.12E-11	0.00E+00	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	763292.32	4070123.82	5.12E-08	4.39E-08	1.78E-09	0.00E+00	9.68E-08	7.80E-09	6.76E-09	2.69E-10	0.00E+00	1.48E-08	3.95E-09	2.95E-09	9.75E-11	0.00E+00	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	762286.12	4070347.26	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	8.38E-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	0.00E+00
1426	762236.23	4070445.13	6.81E-08	5.84E-08	2.36E-09	0.00E+00	1.29E-07	1.04E-08	9.00E-09	3.58E-10	0.00E+00	1.97E-08	5.26E-09	3.93E-09	1.30E-10	0.00E+00	9.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	762349.85	4069950.18	6.57E-06	5.63E-06	2.28E-07	0.00E+00	1.24E-05	1.00E-06	8.68E-07	3.46E-08	0.00E+00	1.90E-06	5.08E-07	3.79E-07	1.25E-08	0.00E+00	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	762350.28	4069925.48	7.03E-06	6.03E-06	2.44E-07	0.00E+00	1.33E-05	1.07E-06	9.29E-07	3.70E-08	0.00E+00	2.04E-06	5.43E-07	4.06E-07	1.34E-08	0.00E+00	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	762350.71	4069900.78	7.23E-06	6.20E-06	2.51E-07	0.00E+00	1.37E-05	1.10E-06	9.55E-07	3.80E-08	0.00E+00	2.09E-06	5.58E-07	4.17E-07	1.38E-08	0.00E+00	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	762364.4	4070116.6	7.00E-07	6.01E-07	2.43E-08	0.00E+00	1.33E-06	1.07E-07	9.26E-08	3.69E-09	0.00E+00	2.03E-07	5.41E-08	4.04E-08	1.34E-09	0.00E+00	9.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	762372.71	4070074.11	1.20E-06	1.02E-06	4.15E-08	0.00E+00	2.26E-06	1.82E-07	1.58E-07	6.29E-09	0.00E+00	3.46E-07	9.24E-08	6.89E-08	2.28E-09	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	762373.14	4070049.41	1.74E-06	1.50E-06	6.05E-08	0.00E+00	3.30E-06	2.66E-07	2.31E-07	9.17E-09	0.00E+00	5.05E-07	1.35E-07	1.01E-07	3.32E-09	0.00E+00	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	762373.56	4070024.71	2.44E-06	2.10E-06	8.48E-08	0.00E+00	4.62E-06	3.72E-07	3.23E-07	1.29E-08	0.00E+00	7.08E-07	1.89E-07	1.41E-07	4.66E-09	0.00E+00	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	762373.99	4070000.01	3.19E-06	2.73E-06	1.11E-07	0.00E+00	6.03E-06	4.85E-07	4.21E-07	1.68E-08	0.00E+00	9.23E-07	2.46E-07	1.84E-07	6.07E-09	0.00E+00	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	762374.42	4069975.31	3.88E-06	3.33E-06	1.35E-07	0.00E+00	7.34E-06	5.91E-07	5.13E-07	2.04E-08	0.00E+00	1.12E-06	3.00E-07	2.24E-07	7.39E-09	0.00E+00	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	762374.85	4069950.61	4.48E-06	3.84E-06	1.55E-07	0.00E+00	8.47E-06	6.82E-07	5.92E-07	2.35E-08	0.00E+00	1.30E-06	3.46E-07	2.58E-07	8.53E-09	0.00E+00	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	762375.28	4069925.91	4.95E-06	4.24E-06	1.72E-07	0.00E+00	9.36E-06	7.54E-07	6.54E-07	2.60E-08	0.00E+00	1.43E-06	3.82E-07	2.85E-07	9.43E-09	0.00E+00	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	762375.71	4069901.21	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	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	762397.7	4070074.55	8.85E-07	7.59E-07	3.07E-08	0.00E+00	1.67E-06	1.35E-07	1.17E-07	4.65E-09	0.00E+00	2.56E-07	6.84E-08	5.10E-08	1.69E-09	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	762398.13	4070049.85	1.21E-06	1.04E-06	4.22E-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	7.01E-08	2.32E-09	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	762398.56	4070025.15	1.65E-06	1.41E-06	5.72E-08	0.00E+00	3.12E-06	2.51E-07	2.18E-07	8.67E-09	0.00E+00	4.78E-07	1.27E-07	9.51E-08	3.14E-09	0.00E+00	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	762398.99	4070000.45	2.15E-06	1.85E-06	7.47E-08	0.00E+00	4.07E-06	3.28E-07	2.85E-07	1.13E-08	0.00E+00	6.24E-07	1.66E-07	1.24E-07	4.10E-09	0.00E+00	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	762399.42	4069975.75	2.68E-06	2.29E-06	9.28E-08	0.00E+00	5.06E-06	4.08E-07	3.54E-07	1.41E-08	0.00E+00	7.75E-07	2.07E-07	1.54E-07	5.10E-09	0.00E+00	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	762399.85	4069951.05	3.17E-06	2.71E-06	1.10E-07	0.00E+00	5.99E-06	4.82E-07	4.19E-07	1.67E-08	0.00E+00	9.18E-07	2.45E-07	1.83E-07	6.03E-09	0.00E+00	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	762400.28	4069926.35	3.59E-06	3.08E-06	1.25E-07	0.00E+00	6.79E-06	5.47E-07	4.74E-07	1.89E-08	0.00E+00	1.04E-06	2.77E-07	2.07E-07	6.84E-09	0.00E+00	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	762400.7	4069901.65	3.91E-06	3.36E-06	1.36E-07	0.00E+00	7.41E-06	5.96E-07	5.17E-07	2.06E-08	0.00E+00	1.13E-06	3.03E-07	2.26E-07	7.46E-09	0.00E+00	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	762314.5	4070213.94	3.36E-07	2.88E-07	1.17E-08	0.00E+00	6.35E-07	5.12E-08	4.44E-08	1.77E-09	0.00E+00	9.73E-08	2.60E-08	1.94E-08	6.40E-10	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	762422.7	4070074.98	6.91E-07	5.93E-07	2.40E-08	0.00E+00	1.31E-06	1.05E-07	9.14E-08	3.64E-09	0.00E+00	2.00E-07	5.34E-08	3.99E-08	1.32E-09	0.00E+00	9.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	762423.13	4070050.28	9.10E-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
1493	762423.56	4070025.58	1.19E-06	1.02E-06	4.15E-08	0.00E+00	2.26E-06	1.82E-07	1.58E-07	6.29E-09	0.00E+00	3.46E-07	9.23E-08	6.89E-08	2.28E-09	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	762423.99	4070000.88	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
1495	762424.41	4069976.18	1.92E-06	1.65E-06	6.67E-08	0.00E+00	3.63E-06	2.93E-07	2.54E-07	1.01E-08	0.00E+00	5.57E-07	1.48E-07	1.11E-07	3.66E-09	0.00E+00	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	762424.84	4069951.48	2.28E-06	1.96E-06	7.92E-08	0.00E+00	4.32E-06	3.48E-07	3.02E-07	1.20E-08	0.00E+00	6.62E-07	1.76E-07	1.32E-07	4.35E-09	0.00E+00	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	762425.27	4069926.78	2.64E-06	2.26E-06	9.17E-08	0.00E+00	5.00E-06	4.02E-07	3.49E-07	1.39E-08	0.00E+00	7.65E-07	2.04E-07	1.52E-07	5.03E-09	0.00E+00	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	762425.7	4069902.08	2.98E-06	2.55E-06	1.03E-07	0.00E+00	5.63E-06	4.53E-07	3.93E-07	1.57E-08	0.00E+00	8.62E-07	2.30E-07	1.72E-07	5.67E-09	0.00E+00	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	762418.92	4070164.13	2.86E-07	2.45E-07	9.93E-09	0.00E+00	5.41E-07	4.36E-08	3.78E-08	1.50E-09	0.00E+00	8.29E-08	2.21E-08	1.65E-08	5.45E-10	0.00E+00	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	762312.48	4070239.25	2.64E-07	2.26E-07	9.15E-09	0.00E+00	4.99E-07	4.02E-08	3.48E-08	1.39E-09	0.00E+00	7.64E-08	2.04E-08	1.52E-08	5.02E-10	0.00E+00	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	762447.7	4070075.41	5.59E-07	4.79E-07	1.94E-08	0.00E+00	1.06E-06	8.52E-08	7.39E-08	2.94E-09	0.00E+00	1.62E-07	4.32E-08	3.23E-08	1.07E-09	0.00E+00	7.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	762448.12	4070050.71	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	5.52E-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	0.00E+00
1503	762448.55	4070026.01	9.11E-07	7.82E-07	3.16E-08	0.00E+00	1.72E-06	1.39E-07	1.21E-07	4.79E-09	0.00E+00	2.64E-07	7.04E-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	0.00E+00
1504	762448.98	4070001.31	1.15E-06	9.90E-07	4.01E-08	0.00E+00	2.18E-06	1.76E-07	1.53E-07	6.07E-09	0.00E+00	3.35E-07	8.92E-08	6.66E-08	2.20E-09	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	762449.41	4069976.61	1.43E-06	1.23E-06	4.97E-08	0.00E+00	2.71E-06	2.18E-07	1.89E-07	7.54E-09	0.00E+00	4.15E-07	1.11E-07	8.26E-08	2.73E-09	0.00E+00	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	762449.84	4069951.91	1.71E-06	1.47E-06	5.94E-08	0.00E+00	3.24E-06	2.61E-07	2.26E-07	9.01E-09	0.00E+00	4.96E-07	1.32E-07	9.87E-08	3.26E-09	0.00E+00	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	762450.27	4069927.21	2.00E-06	1.72E-06	6.95E-08	0.00E+00	3.79E-06	3.05E-07	2.65E-07	1.05E-08	0.00E+00	5.80E-07	1.55E-07	1.15E-07	3.82E-09	0.00E+00	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	762450.7	4069902.51	2.29E-06	1.96E-06	7.95E-08	0.00E+00	4.34E-06	3.49E-07	3.03E-07	1.21E-08	0.00E+00	6.64E-07	1.77E-07	1.32E-07	4.37E-09	0.00E+00	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	762310.75	4070264.45	2.09E-07	1.79E-07	7.24E-09	0.00E+00	3.95E-07	3.18E-08	2.76E-08	1.10E-09	0.00E+00	6.05E-08	1.61E-08	1.20E-08	3.98E-10	0.00E+00	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	762472.69	4070075.85	4.63E-07	3.97E-07	1.61E-08	0.00E+00	8.76E-07	7.05E-08	6.12E-08	2.43E-09	0.00E+00	1.34E-07	3.58E-08	2.67E-08	8.82E-10	0.00E+00	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	762473.12	4070051.15	5.77E-07	4.95E-07	2.00E-08	0.00E+00	1.09E-06	8.79E-08	7.62E-08	3.03E-09	0.00E+00	1.67E-07	4.46E-08	3.33E-08	1.10E-09	0.00E+00	7.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	762473.55	4070026.45	7.20E-07	6.18E-07	2.50E-08	0.00E+00	1.36E-06	1.10E-07	9.52E-08	3.79E-09	0.00E+00	2.09E-07	5.57E-08	4.15E-08	1.37E-09	0.00E+00	9.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	762473.98	4070001.75	8.96E-07	7.68E-07	3.11E-08	0.00E+00	1.70E-06	1.37E-07	1.18E-07	4.71E-09	0.00E+00	2.60E-07	6.93E-08	5.17E-08	1.71E-09	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	762474.41	4069977.05	1.09E-06	9.37E-07	3.79E-08	0.00E+00	2.07E-06	1.66E-07	1.44E-07	5.75E-09	0.00E+00	3.17E-07	8.44E-08	6.30E-08	2.08E-09	0.00E+00	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	762474.84	4069952.35	1.30E-06	1.11E-06	4.50E-08	0.00E+00	2.45E-06	1.98E-07	1.72E-07	6.82E-09	0.00E+00	3.76E-07	1.00E-07	7.48E-08	2.47E-09	0.00E+00	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	762475.26	4069927.65	1.52E-06	1.30E-06	5.26E-08	0.00E+00	2.87E-06	2.31E-07	2.01E-07	7.98E-09	0.00E+00	4.40E-07	1.17E-07	8.75E-08	2.89E-09	0.00E+00	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	762475.69	4069902.95	1.74E-06	1.49E-06	6.05E-08	0.00E+00	3.30E-06	2.65E-07	2.30E-07	9.16E-09	0.00E+00	5.05E-07	1.35E-07	1.00E-07	3.32E-09	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	762470.26	4070161.95	2.17E-07	1.86E-07	7.54E-09	0.00E+00	4.11E-07	3.31E-08	2.87E-08	1.14E-09	0.00E+00	6.29E-08	1.68E-08	1.25E-08	4.14E-10	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	762413.41	4070250.97	1.43E-07	1.23E-07	4.97E-09	0.00E+00	2.71E-07	2.18E-08	1.89E-08	7.54E-10	0.00E+00	4.15E-08	1.11E-08	8.26E-09	2.73E-10	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	762309.2	4070289.59	1.65E-07	1.41E-07	5.72E-09	0.00E+00	3.12E-07	2.51E-08	2.18E-08	8.67E-10	0.00E+00	4.77E-08	1.27E-08	9.50E-09	3.14E-10	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	762497.69	4070076.28	3.90E-07	3.35E-07	1.35E-08	0.00E+00	7.38E-07	5.94E-08	5.16E-08	2.05E-09	0.00E+00	1.13E-07	3.02E-08	2.25E-08	7.44E-10	0.00E+00	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	762498.12	4070051.58	4.75E-07	4.07E-07	1.65E-08	0.00E+00	8.99E-07	7.24E-08	6.28E-08	2.50E-09	0.00E+00	1.38E-07	3.67E-08	2.74E-08	9.06E-10	0.00E+00	6.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	762498.55	4070026.88	5.85E-07	5.01E-07	2.03E-08	0.00E+00	1.11E-06	8.91E-08	7.73E-08	3.08E-09	0.00E+00	1.69E-07	4.52E-08	3.37E-08	1.11E-09	0.00E+00	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	762498.97	4070002.18	7.19E-07	6.16E-07	2.49E-08	0.00E+00	1.36E-06	1.10E-07	9.50E-08	3.78E-09	0.00E+00	2.08E-07	5.56E-08	4.15E-08	1.37E-09	0.00E+00	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	762499.4	4069977.48	8.61E-07	7.38E-07	2.99E-08	0.00E+00	1.63E-06	1.31E-07	1.14E-07	4.53E-09	0.00E+00	2.50E-07	6.65E-08	4.97E-08	1.64E-09	0.00E+00	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	762499.83	4069952.78	1.02E-06	8.75E-07	3.54E-08	0.00E+00	1.93E-06	1.55E-07	1.35E-07	5.37E-09	0.00E+00	2.96E-07	7.89E-08	5.89E-08	1.95E-09	0.00E+00	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	762500.26	4069928.08	1.19E-06	1.02E-06	4.14E-08	0.00E+00	2.26E-06	1.82E-07	1.58E-07	6.27E-09	0.00E+00	3.46E-07	9.22E-08	6.88E-08	2.27E-09	0.00E+00	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	762500.69	4069903.38	1.37E-06	1.18E-06	4.76E-08	0.00E+00	2.59E-06	2.09E-07	1.81E-07	7.21E-09	0.00E+00	3.97E-07	1.06E-07	7.91E-08	2.61E-09	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	762517.72	4070168.54	1.71E-07	1.46E-07	5.92E-09	0.00E+00	3.23E-07	2.60E-08	2.26E-08	8.98E-10	0.00E+00	4.95E-08	1.32E-08	9.85E-09	3.25E-10	0.00E+00	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	762547.68	4070077.15	2.94E-07	2.52E-07	1.02E-08	0.00E+00	5.56E-07	4.48E-08	3.89E-08	1.55E-09	0.00E+00	8.52E-08	2.27E-08	1.70E-08	5.60E-10	0.00E+00	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	762548.11	4070052.45	3.50E-07	3.00E-07	1.22E-08	0.00E+00	6.62E-07	5.33E-08	4.63E-08	1.84E-09	0.00E+00	1.01E-07	2.71E-08	2.02E-08	6.67E-10	0.00E+00	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	762548.54	4070027.75	4.17E-07	3.58E-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	2.41E-08	7.95E-10	0.00E+00	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	762548.97	4070003.05	4.96E-07	4.25E-07	1.72E-08	0.00E+00	9.39E-07	7.56E-08	6.56E-08	2.61E-09	0.00E+00	1.44E-07	3.84E-08	2.86E-08	9.46E-10	0.00E+00	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	762549.4	4069978.35	5.89E-07	5.05E-07	2.04E-08	0.00E+00	1.11E-06	8.97E-08	7.78E-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	0.00E+00
1535	762549.82	4069953.65	6.89E-07	5.90E-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	0.00E+00
1536	762550.25	4069928.95	7.96E-07	6.83E-07	2.76E-08	0.00E+00	1.51E-06	1.21E-07	1.05E-07	4.19E-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	0.00E+00
1537	762550.68	4069904.25	9.12E-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	0.00E+00
1538	762568.89	4070166.74	1.46E-07	1.25E-07	5.06E-09	0.00E+00	2.76E-07	2.22E-08	1.93E-08	7.67E-10	0.00E+00	4.23E-08	1.13E-08	8.41E-09	2.78E-10	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	762512.19	4070294.78	7.84E-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	6.06E-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	0.00E+00
1540	762597.67	4070078.02	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	0.00E+00
1541	762598.1	4070053.32	2.66E-07	2.28E-07	9.24E-09	0.00E+00	5.04E-07	4.06E-08	3.52E-08	1.40E-09	0.00E+00	7.72E-08	2.06E-08	1.54E-08	5.08E-10	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	762598.53	4070028.62	3.09E-07	2.65E-07	1.07E-08	0.00E+00	5.84E-07	4.70E-08	4.08E-08	1.62E-09	0.00E+00	8.94E-08	2.39E-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
1543	762598.96	4070003.92	3.59E-07	3.08E-07	1.25E-08	0.00E+00	6.80E-07	5.47E-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	0.00E+00
1544	762599.39	4069979.22	4.17E-07	3.58E-07	1.45E-08	0.00E+00	7.90E-07	6.36E-08	5.52E-08	2.20E-09	0.00E+00	1.21E-07	3.23E-08	2.41E-08	7.96E-10	0.00E+00	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	762599.82	4069954.52	4.84E-07	4.15E-07	1.68E-08	0.00E+00	9.16E-07	7.38E-08	6.40E-08	2.55E-09	0.00E+00	1.40E-07	3.74E-08	2.79E-08	9.23E-10	0.00E+00	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	762600.25	4069929.82	5.63E-07	4.83E-07	1.96E-08	0.00E+00	1.07E-06	8.58E-08	7.45E-08	2.96E-09	0.00E+00	1.63E-07	4.35E-08	3.25E-08	1.07E-09	0.00E+00	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	762600.67	4069905.12	6.45E-07	5.53E-07	2.24E-08	0.00E+00	1.22E-06	9.83E-08	8.53E-08	3.39E-09	0.00E+00	1.87E-07	4.99E-08	3.72E-08	1.23E-09	0.00E+00	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	762619.67	4070165.83	1.25E-07	1.07E-07	4.34E-09	0.00E+00	2.36E-07	1.90E-08	1.65E-08	6.57E-10	0.00E+00	3.62E-08	9.65E-09	7.21E-09	2.38E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	762564.55	4070290.31	7.12E-08	6.11E-08	2.47E-09	0.00E+00	1.35E-07	1.08E-08	9.41E-09	3.75E-10	0.00E+00	2.06E-08	5.50E-09	4.11E-09	1.36E-10	0.00E+00	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	762647.67	4070078.88	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	3.56E-10	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	762648.09	4070054.18	2.12E-07	1.82E-07	7.35E-09	0.00E+00	4.01E-07	3.23E-08	2.80E-08	1.11E-09	0.00E+00	6.14E-08	1.64E-08	1.22E-08	4.04E-10	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	762648.52	4070029.48	2.41E-07	2.07E-07	8.38E-09	0.00E+00	4.57E-07	3.68E-08	3.19E-08	1.27E-09	0.00E+00	7.00E-08	1.87E-08	1.39E-08	4.60E-10	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	762648.95	4070004.78	2.77E-07	2.37E-07	9.60E-09	0.00E+00	5.23E-07	4.21E-08	3.66E-08	1.46E-09	0.00E+00	8.02E-08	2.14E-08	1.60E-08	5.27E-10	0.00E+00	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	762649.38	4069980.08	3.17E-07	2.72E-07	1.10E-08	0.00E+00	6.00E-07	4.83E-08	4.19E-08	1.67E-09	0.00E+00	9.19E-08	2.45E-08	1.83E-08	6.04E-10	0.00E+00	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	762649.81	4069955.38	3.65E-07	3.13E-07	1.27E-08	0.00E+00	6.90E-07	5.56E-08	4.82E-08	1.92E-09	0.00E+00	1.06E-07	2.82E-08	2.10E-08	6.95E-10	0.00E+00	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	762650.24	4069930.68	4.18E-07	3.58E-07	1.45E-08	0.00E+00	7.91E-07	6.37E-08	5.53E-08	2.20E-09	0.00E+00	1.21E-07	3.23E-08	2.41E-08	7.97E-10	0.00E+00	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	762659.4	4070417.4	3.43E-08	2.94E-08	1.19E-09	0.00E+00	6.48E-08	5.22E-09	4.53E-09	1.80E-10	0.00E+00	9.93E-09	2.65E-09	1.98E-09	6.53E-11	0.00E+00	4.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	762649.55	4070439.63	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	0.00E+00
1602	762457.33	4070529.43	2.90E-08	2.49E-08	1.01E-09	0.00E+00	5.49E-08	4.42E-09	3.84E-09	1.53E-10	0.00E+00	8.41E-09	2.24E-09	1.67E-09	5.53E-11	0.00E+00	3.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	762797.64	4070081.49	1.19E-07	1.02E-07	4.13E-09	0.00E+00	2.25E-07	1.81E-08	1.57E-08	6.25E-10	0.00E+00	3.45E-08	9.19E-09	6.86E-09	2.27E-10	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	762798.07	4070056.79	1.32E-07	1.13E-07	4.57E-09	0.00E+00	2.49E-07	2.01E-08	1.74E-08	6.93E-10	0.00E+00	3.82E-08	1.02E-08	7.60E-09	2.51E-10	0.00E+00	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	762798.5	4070032.09	1.45E-07	1.25E-07	5.05E-09	0.00E+00	2.75E-07	2.22E-08	1.92E-08	7.65E-10	0.00E+00	4.21E-08	1.12E-08	8.39E-09	2.77E-10	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	762798.93	4070007.39	1.60E-07	1.37E-07	5.54E-09	0.00E+00	3.02E-07	2.43E-08	2.11E-08	8.40E-10	0.00E+00	4.63E-08	1.23E-08	9.21E-09	3.04E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	762799.36	4069982.69	1.77E-07	1.52E-07	6.13E-09	0.00E+00	3.34E-07	2.69E-08	2.34E-08	9.30E-10	0.00E+00	5.12E-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
1608	762799.79	4069957.99	1.96E-07	1.68E-07	6.81E-09	0.00E+00	3.71E-07	2.99E-08	2.59E-08	1.03E-09	0.00E+00	5.68E-08	1.52E-08	1.13E-08	3.74E-10	0.00E+00	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	762800.22	4069933.29	2.18E-07	1.86E-07	7.55E-09	0.00E+00	4.12E-07	3.31E-08	2.88E-08	1.14E-09	0.00E+00	6.30E-08	1.68E-08	1.25E-08	4.15E-10	0.00E+00	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	762800.64	4069908.59	2.41E-07	2.06E-07	8.35E-09	0.00E+00	4.55E-07	3.67E-08	3.18E-08	1.27E-09	0.00E+00	6.97E-08	1.86E-08	1.39E-08	4.59E-10	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	762837.58	4070128.79	8.97E-08	7.69E-08	3.11E-09	0.00E+00	1.70E-07	1.37E-08	1.19E-08	4.72E-10	0.00E+00	2.60E-08	6.94E-09	5.18E-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
1612	762827.96	4070150.53	8.32E-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	6.43E-09	4.80E-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
1613	762818.33	4070172.26	7.75E-08	6.64E-08	2.69E-09	0.00E+00	1.47E-07	1.18E-08	1.02E-08	4.08E-10	0.00E+00	2.25E-08	5.99E-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	0.00E+00
1614	762760.58	4070302.67	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	0.00E+00
1615	762750.95	4070324.41	4.47E-08	3.83E-08	1.55E-09	0.00E+00	8.45E-08	6.80E-09	5.90E-09	2.35E-10	0.00E+00	1.29E-08	3.45E-09	2.58E-09	8.51E-11	0.00E+00	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	762741.33	4070346.14	4.13E-08	3.54E-08	1.43E-09	0.00E+00	7.82E-08	6.29E-09	5.46E-09	2.17E-10	0.00E+00	1.20E-08	3.19E-09	2.38E-09	7.87E-11	0.00E+00	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	762731.7	4070367.88	3.84E-08	3.29E-08	1.33E-09	0.00E+00	7.26E-08	5.85E-09	5.07E-09	2.02E-10	0.00E+00	1.11E-08	2.97E-09	2.21E-09	7.32E-11	0.00E+00	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	762722.08	4070389.62	3.57E-08	3.06E-08	1.24E-09	0.00E+00	6.75E-08	5.44E-09	4.72E-09	1.88E-10	0.00E+00	1.03E-08	2.76E-09	2.06E-09	6.80E-11	0.00E+00	4.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	762712.45	4070411.35	3.33E-08	2.85E-08	1.15E-09	0.00E+00	6.29E-08	5.07E-09	4.40E-09	1.75E-10	0.00E+00	9.64E-09	2.57E-09	1.92E-09	6.34E-11	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	762702.83	4070433.09	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	9.00E-09	2.40E-09	1.79E-09	5.92E-11	0.00E+00	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	762693.2	4070454.82	2.90E-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	0.00E+00
1622	762683.58	4070476.56	2.70E-08	2.31E-08	9.36E-10	0.00E+00	5.10E-08	4.11E-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	0.00E+00
1623	762651.66	4070506.55	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	0.00E+00
1624	762629.37	4070514.81	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	7.21E-09	1.92E-09	1.44E-09	4.74E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	762495.63	4070564.37	2.47E-08	2.12E-08	8.58E-10	0.00E+00	4.68E-08	3.77E-09	3.27E-09	1.30E-10	0.00E+00	7.17E-09	1.91E-09	1.43E-09	4.71E-11	0.00E+00	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	762428.76	4070589.15	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	7.21E-09	1.92E-09	1.44E-09	4.74E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	762847.21	4070107.06	9.65E-08	8.27E-08	3.35E-09	0.00E+00	1.83E-07	1.47E-08	1.28E-08	5.07E-10	0.00E+00	2.80E-08	7.46E-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	0.00E+00
1628	762847.64	4070082.36	1.07E-07	9.14E-08	3.70E-09	0.00E+00	2.02E-07	1.62E-08	1.41E-08	5.61E-10	0.00E+00	3.09E-08	8.24E-09	6.15E-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
1629	762848.06	4070057.66	1.18E-07	1.01E-07	4.08E-09	0.00E+00	2.23E-07	1.79E-08	1.56E-08	6.19E-10	0.00E+00	3.41E-08	9.09E-09	6.79E-09	2.24E-10	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	762848.49	4070032.96	1.29E-07	1.11E-07	4.49E-09	0.00E+00	2.45E-07	1.97E-08	1.71E-08	6.80E-10	0.00E+00	3.75E-08	1.00E-08	7.46E-09	2.47E-10	0.00E+00	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	762848.92	4070008.26	1.41E-07	1.21E-07	4.90E-09	0.00E+00	2.67E-07	2.15E-08	1.87E-08	7.43E-10	0.00E+00	4.09E-08	1.09E-08	8.15E-09	2.69E-10	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	762849.35	4069983.56	1.53E-07	1.32E-07	5.33E-09	0.00E+00	2.90E-07	2.34E-08	2.03E-08	8.07E-10	0.00E+00	4.45E-08	1.19E-08	8.85E-09	2.93E-10	0.00E+00	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	762849.78	4069958.86	1.68E-07	1.44E-07	5.82E-09	0.00E+00	3.18E-07	2.56E-08	2.22E-08	8.83E-10	0.00E+00	4.86E-08	1.30E-08	9.68E-09	3.20E-10	0.00E+00	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	762850.21	4069934.16	1.84E-07	1.57E-07	6.37E-09	0.00E+00	3.47E-07	2.80E-08	2.43E-08	9.66E-10	0.00E+00	5.32E-08	1.42E-08	1.06E-08	3.50E-10	0.00E+00	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	762850.64	4069909.46	2.02E-07	1.73E-07	7.00E-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
1636	762867.36	4070175.31	6.99E-08	6.00E-08	2.43E-09	0.00E+00	1.32E-07	1.07E-08	9.24E-09	3.68E-10	0.00E+00	2.03E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	762857.41	4070197.78	6.49E-08	5.56E-08	2.25E-09	0.00E+00	1.23E-07	9.88E-09	8.58E-09	3.41E-10	0.00E+00	1.88E-08	5.01E-09	3.74E-09	1.24E-10	0.00E+00	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	762847.46	4070220.24	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	0.00E+00
1639	762837.51	4070242.7	5.59E-08	4.79E-08	1.94E-09	0.00E+00	1.06E-07	8.51E-09	7.39E-09	2.94E-10	0.00E+00	1.62E-08	4.32E-09	3.22E-09	1.07E-10	0.00E+00	7.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	762827.57	4070265.17	5.18E-08	4.44E-08	1.80E-09	0.00E+00	9.80E-08	7.89E-09	6.84E-09	2.72E-10	0.00E+00	1.50E-08	4.00E-09	2.99E-09	9.87E-11	0.00E+00	7.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	762817.62	4070287.63	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	0.00E+00
1642	762757.93	4070422.41	3.07E-08	2.63E-08	1.06E-09	0.00E+00	5.81E-08	4.67E-09	4.06E-09	1.61E-10	0.00E+00	8.89E-09	2.37E-09	1.77E-09	5.85E-11	0.00E+00	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	762747.98	4070444.87	2.87E-08	2.46E-08	9.96E-10	0.00E+00	5.43E-08	4.37E-09	3.79E-09	1.51E-10	0.00E+00	8.32E-09	2.22E-09	1.66E-09	5.47E-11	0.00E+00	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	762738.04	4070467.34	2.69E-08	2.31E-08	9.34E-10	0.00E+00	5.09E-08	4.10E-09	3.56E-09	1.42E-10	0.00E+00	7.80E-09	2.08E-09	1.55E-09	5.13E-11	0.00E+00	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	762728.09	4070489.8	2.53E-08	2.17E-08	8.77E-10	0.00E+00	4.78E-08	3.85E-09	3.34E-09	1.33E-10	0.00E+00	7.32E-09	1.95E-09	1.46E-09	4.81E-11	0.00E+00	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	762718.14	4070512.26	2.35E-08	2.01E-08	8.15E-10	0.00E+00	4.44E-08	3.58E-09	3.10E-09	1.24E-10	0.00E+00	6.81E-09	1.81E-09	1.35E-09	4.48E-11	0.00E+00	3.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	762639.08	4070560.33	2.16E-08	1.85E-08	7.50E-10	0.00E+00	4.09E-08	3.29E-09	2.86E-09	1.14E-10	0.00E+00	6.26E-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
1648	762616.05	4070568.87	2.15E-08	1.85E-08	7.47E-10	0.00E+00	4.07E-08	3.28E-09	2.85E-09	1.13E-10	0.00E+00	6.24E-09	1.66E-09	1.24E-09	4.10E-11	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	762593.01	4070577.41	2.14E-08	1.84E-08	7.44E-10	0.00E+00	4.06E-08	3.27E-09	2.83E-09	1.13E-10	0.00E+00	6.21E-09	1.66E-09	1.24E-09	4.09E-11	0.00E+00	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	762523.9	4070603.02	2.13E-08	1.83E-08	7.40E-10	0.00E+00	4.03E-08	3.25E-09	2.82E-09	1.12E-10	0.00E+00	6.18E-09	1.65E-09	1.23E-09	4.06E-11	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	762897.63	4070083.22	9.58E-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	0.00E+00
1652	762898.06	4070058.52	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	8.16E-09	6.09E-09	2.01E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	762898.49	4070033.82	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	8.93E-09	6.66E-09	2.20E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	762898.91	4070009.12	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	0.00E+00
1655	762899.34	4069984.42	1.37E-07	1.17E-07	4.74E-09	0.00E+00	2.58E-07	2.08E-08	1.81E-08	7.18E-10	0.00E+00	3.96E-08	1.06E-08	7.88E-09	2.60E-10	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	762899.77	4069959.72	1.47E-07	1.26E-07	5.10E-09	0.00E+00	2.78E-07	2.24E-08	1.94E-08	7.73E-10	0.00E+00	4.26E-08	1.14E-08	8.48E-09	2.80E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	762900.2	4069935.02	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	0.00E+00
1658	762900.63	4069910.32	1.72E-07	1.47E-07	5.97E-09	0.00E+00	3.25E-07	2.62E-08	2.27E-08	9.04E-10	0.00E+00	4.98E-08	1.33E-08	9.92E-09	3.28E-10	0.00E+00	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	762968.42	4070174.61	6.10E-08	5.23E-08	2.12E-09	0.00E+00	1.15E-07	9.29E-09	8.06E-09	3.21E-10	0.00E+00	1.77E-08	4.71E-09	3.52E-09	1.16E-10	0.00E+00	8.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	762958.84	4070196.26	5.71E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.70E-09	7.54E-09	3.00E-10	0.00E+00	1.65E-08	4.41E-09	3.29E-09	1.09E-10	0.00E+00	7.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	762949.25	4070217.91	5.33E-08	4.57E-08	1.85E-09	0.00E+00	1.01E-07	8.12E-09	7.04E-09	2.80E-10	0.00E+00	1.54E-08	4.12E-09	3.07E-09	1.02E-10	0.00E+00	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	762939.66	4070239.56	4.99E-08	4.28E-08	1.73E-09	0.00E+00	9.44E-08	7.60E-09	6.59E-09	2.62E-10	0.00E+00	1.45E-08	3.85E-09	2.88E-09	9.51E-11	0.00E+00	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	762930.07	4070261.21	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	0.00E+00
1664	762920.49	4070282.85	4.37E-08	3.74E-08	1.52E-09	0.00E+00	8.26E-08	6.65E-09	5.77E-09	2.30E-10	0.00E+00	1.27E-08	3.37E-09	2.52E-09	8.32E-11	0.00E+00	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	762910.9	4070304.5	4.07E-08	3.49E-08	1.41E-09	0.00E+00	7.71E-08	6.21E-09	5.39E-09	2.14E-10	0.00E+00	1.18E-08	3.15E-09	2.35E-09	7.77E-11	0.00E+00	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	762853.38	4070434.4	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	0.00E+00
1667	762843.79	4070456.05	2.58E-08	2.21E-08	8.94E-10	0.00E+00	4.87E-08	3.92E-09	3.40E-09	1.35E-10	0.00E+00	7.46E-09	1.99E-09	1.49E-09	4.91E-11	0.00E+00	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	762834.2	4070477.7	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	0.00E+00
1669	762824.61	4070499.35	2.32E-08	1.99E-08	8.06E-10	0.00E+00	4.39E-08	3.54E-09	3.07E-09	1.22E-10	0.00E+00	6.73E-09	1.79E-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	0.00E+00
1670	762815.03	4070521	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	0.00E+00
1671	762805.44	4070542.65	2.08E-08	1.78E-08	7.21E-10	0.00E+00	3.93E-08	3.16E-09	2.75E-09	1.09E-10	0.00E+00	6.02E-09	1.61E-09	1.20E-09	3.96E-11	0.00E+00	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	762795.85	4070564.3	1.96E-08	1.68E-08	6.80E-10	0.00E+00	3.71E-08	2.99E-09	2.59E-09	1.03E-10	0.00E+00	5.68E-09	1.51E-09	1.13E-09	3.74E-11	0.00E+00	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	762786.26	4070585.95	1.85E-08	1.59E-08	6.43E-10	0.00E+00	3.51E-08	2.82E-09	2.45E-09	9.75E-11	0.00E+00	5.37E-09	1.43E-09	1.07E-09	3.53E-11	0.00E+00	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	762710.07	4070632.28	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
1675	762687.87	4070640.5	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	0.00E+00
1676	762665.67	4070648.73	1.69E-08	1.45E-08	5.87E-10	0.00E+00	3.20E-08	2.58E-09	2.24E-09	8.90E-11	0.00E+00	4.90E-09	1.31E-09	9.76E-10	3.23E-11	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	762576.86	4070681.64	1.65E-08	1.41E-08	5.71E-10	0.00E+00	3.11E-08	2.51E-09	2.18E-09	8.66E-11	0.00E+00	4.77E-09	1.27E-09	9.49E-10	3.14E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	762554.66	4070689.86	1.65E-08	1.41E-08	5.71E-10	0.00E+00	3.11E-08	2.51E-09	2.18E-09	8.66E-11	0.00E+00	4.77E-09	1.27E-09	9.49E-10	3.14E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	762532.45	4070698.09	1.64E-08	1.41E-08	5.71E-10	0.00E+00	3.11E-08	2.50E-09	2.17E-09	8.65E-11	0.00E+00	4.76E-09	1.27E-09	9.48E-10	3.13E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	762997.61	4070084.96	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
1681	762998.04	4070060.26	8.78E-08	7.52E-08	3.05E-09	0.00E+00	1.66E-07	1.34E-08	1.16E-08	4.62E-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
1682	762998.47	4070035.56	9.46E-08	8.11E-08	3.28E-09	0.00E+00	1.79E-07	1.44E-08	1.25E-08	4.98E-10	0.00E+00	2.74E-08	7.31E-09	5.46E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	762998.9	4070010.86	1.02E-07	8.71E-08	3.52E-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	0.00E+00
1684	762999.33	4069986.16	1.09E-07	9.35E-08	3.79E-09	0.00E+00	2.06E-07	1.66E-08	1.44E-08	5.74E-10	0.00E+00	3.16E-08	8.43E-09	6.29E-09	2.08E-10	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	762999.76	4069961.46	1.17E-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	3.40E-08	9.08E-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	0.00E+00
1686	763000.19	4069936.76	1.26E-07	1.08E-07	4.37E-09	0.00E+00	2.38E-07	1.92E-08	1.66E-08	6.62E-10	0.00E+00	3.65E-08	9.73E-09	7.26E-09	2.40E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2.08E-09	6.86E-11	0.00E+00	4.93E-09	0.00E+00	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	1.95E-09	6.45E-11	0.00E+00	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	763070.06	4070400.12	2.66E-08	2.28E-08	9.22E-10	0.00E+00	5.03E-08	4.05E-09	3.51E-09	1.40E-10	0.00E+00	7.70E-09	2.05E-09	1.53E-09	5.06E-11	0.00E+00	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	763060.29	4070422.19	2.50E-08	2.14E-08	8.67E-10	0.00E+00	4.73E-08	3.81E-09	3.30E-09	1.31E-10	0.00E+00	7.24E-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	0.00E+00
1732	763050.51	4070444.27	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	0.00E+00
1733	763040.74	4070466.35	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	6.46E-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	0.00E+00
1734	763030.96	4070488.42	2.12E-08	1.82E-08	7.35E-10	0.00E+00	4.01E-08	3.23E-09	2.80E-09	1.11E-10	0.00E+00	6.14E-09	1.64E-09	1.22E-09	4.04E-11	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	763021.18	4070510.5	2.02E-08	1.73E-08	7.02E-10	0.00E+00	3.83E-08	3.08E-09	2.67E-09	1.06E-10	0.00E+00	5.86E-09	1.56E-09	1.17E-09	3.85E-11	0.00E+00	2.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	763011.41	4070532.57	1.94E-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
1737	763001.63	4070554.65	1.85E-08	1.59E-08	6.43E-10	0.00E+00	3.51E-08	2.82E-09	2.45E-09	9.75E-11	0.00E+00	5.37E-09	1.43E-09	1.07E-09	3.53E-11	0.00E+00	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	762991.85	4070576.73	1.78E-08	1.52E-08	6.16E-10	0.00E+00	3.36E-08	2.70E-09	2.35E-09	9.34E-11	0.00E+00	5.15E-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	0.00E+00
1739	762982.08	4070598.8	1.70E-08	1.46E-08	5.91E-10	0.00E+00	3.22E-08	2.59E-09	2.25E-09	8.96E-11	0.00E+00	4.93E-09	1.32E-09	9.82E-10	3.25E-11	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	762972.3	4070620.88	1.63E-08	1.40E-08	5.66E-10	0.00E+00	3.09E-08	2.49E-09	2.16E-09	8.58E-11	0.00E+00	4.73E-09	1.26E-09	9.41E-10	3.11E-11	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	762962.53	4070642.96	1.56E-08	1.33E-08	5.40E-10	0.00E+00	2.94E-08	2.37E-09	2.06E-09	8.18E-11	0.00E+00	4.51E-09	1.20E-09	8.97E-10	2.96E-11	0.00E+00	2.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	762952.75	4070665.03	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	0.00E+00
1743	762942.97	4070687.11	1.41E-08	1.21E-08	4.91E-10	0.00E+00	2.67E-08	2.15E-09	1.87E-09	7.44E-11	0.00E+00	4.10E-09	1.09E-09	8.15E-10	2.69E-11	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	762933.2	4070709.18	1.35E-08	1.16E-08	4.68E-10	0.00E+00	2.55E-08	2.06E-09	1.78E-09	7.10E-11	0.00E+00	3.91E-09	1.04E-09	7.79E-10	2.57E-11	0.00E+00	1.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	762923.42	4070731.26	1.30E-08	1.11E-08	4.50E-10	0.00E+00	2.45E-08	1.98E-09	1.71E-09	6.82E-11	0.00E+00	3.76E-09	1.00E-09	7.48E-10	2.47E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	762845.73	4070778.5	1.21E-08	1.04E-08	4.20E-10	0.00E+00	2.29E-08	1.85E-09	1.60E-09	6.37E-11	0.00E+00	3.51E-09	9.36E-10	6.99E-10	2.31E-11	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	762823.09	4070786.89	1.20E-08	1.02E-08	4.15E-10	0.00E+00	2.26E-08	1.82E-09	1.58E-09	6.29E-11	0.00E+00	3.46E-09	9.24E-10	6.90E-10	2.28E-11	0.00E+00	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	762800.45	4070795.28	1.18E-08	1.01E-08	4.09E-10	0.00E+00	2.23E-08	1.80E-09	1.56E-09	6.20E-11	0.00E+00	3.42E-09	9.11E-10	6.80E-10	2.25E-11	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	762732.53	4070820.45	1.14E-08	9.79E-09	3.96E-10	0.00E+00	2.16E-08	1.74E-09	1.51E-09	6.01E-11	0.00E+00	3.31E-09	8.83E-10	6.59E-10	2.18E-11	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	762709.89	4070828.84	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	0.00E+00
1751	762687.25	4070837.22	1.12E-08	9.60E-09	3.88E-10	0.00E+00	2.12E-08	1.71E-09	1.48E-09	5.89E-11	0.00E+00	3.24E-09	8.65E-10	6.46E-10	2.13E-11	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	763197.58	4070088.43	6.25E-08	5.36E-08	2.17E-09	0.00E+00	1.18E-07	9.53E-09	8.26E-09	3.29E-10	0.00E+00	1.81E-08	4.83E-09	3.61E-09	1.19E-10	0.00E+00	8.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	763198.01	4070063.73	6.64E-08	5.69E-08	2.30E-09	0.00E+00	1.26E-07	1.01E-08	8.77E-09	3.49E-10	0.00E+00	1.92E-08	5.13E-09	3.83E-09	1.27E-10	0.00E+00	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	763198.44	4070039.03	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	2.04E-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	0.00E+00
1755	763198.87	4070014.33	7.45E-08	6.39E-08	2.59E-09	0.00E+00	1.41E-07	1.13E-08	9.85E-09	3.92E-10	0.00E+00	2.16E-08	5.76E-09	4.30E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	763199.3	4069989.63	7.84E-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	6.06E-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	0.00E+00
1757	763199.73	4069964.93	8.24E-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	6.37E-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	0.00E+00
1758	763200.16	4069940.23	8.67E-08	7.43E-08	3.01E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.56E-10	0.00E+00	2.51E-08	6.70E-09	5.00E-09	1.65E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	763200.58	4069915.53	9.13E-08	7.83E-08	3.17E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.80E-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
1760	763267.61	4070181.55	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	0.00E+00
1761	763257.76	4070203.78	4.22E-08	3.62E-08	1.47E-09	0.00E+00	7.99E-08	6.44E-09	5.58E-09	2.22E-10	0.00E+00	1.22E-08	3.27E-09	2.44E-09	8.05E-11	0.00E+00	5.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	763247.92	4070226.01	3.98E-08	3.41E-08	1.38E-09	0.00E+00	7.53E-08	6.06E-09	5.26E-09	2.09E-10	0.00E+00	1.15E-08	3.08E-09	2.30E-09	7.59E-11	0.00E+00	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	763238.07	4070248.24	3.77E-08	3.23E-08	1.31E-09	0.00E+00	7.13E-08	5.74E-09	4.98E-09	1.98E-10	0.00E+00	1.09E-08	2.91E-09	2.17E-09	7.19E-11	0.00E+00	5.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	763228.23	4070270.47	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	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	763218.39	4070292.7	3.33E-08	2.85E-08	1.15E-09	0.00E+00	6.29E-08	5.07E-09	4.40E-09	1.75E-10	0.00E+00	9.64E-09	2.57E-09	1.92E-09	6.34E-11	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	763159.32	4070426.08	2.37E-08	2.03E-08	8.24E-10	0.00E+00	4.49E-08	3.62E-09	3.14E-09	1.25E-10	0.00E+00	6.88E-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	0.00E+00
1767	763149.48	4070448.31	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	0.00E+00
1768	763139.63	4070470.54	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
1769	763129.79	4070492.76	2.01E-08	1.72E-08	6.96E-10	0.00E+00	3.80E-08	3.06E-09	2.65E-09	1.06E-10	0.00E+00	5.81E-09	1.55E-09	1.16E-09	3.82E-11	0.00E+00	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	763119.95	4070514.99	1.91E-08	1.64E-08	6.64E-10	0.00E+00	3.62E-08	2.92E-09	2.53E-09	1.01E-10	0.00E+00	5.55E-09	1.48E-09	1.10E-09	3.65E-11	0.00E+00	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	763110.1	4070537.22	1.83E-08	1.57E-08	6.34E-10	0.00E+00	3.46E-08	2.78E-09	2.41E-09	9.61E-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	0.00E+00
1772	763100.26	4070559.45	1.75E-08	1.50E-08	6.08E-10	0.00E+00	3.32E-08	2.67E-09	2.32E-09	9.22E-11	0.00E+00	5.08E-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	0.00E+00
1773	763090.41	4070581.68	1.69E-08	1.45E-08	5.87E-10	0.00E+00	3.20E-08	2.58E-09	2.23E-09	8.89E-11	0.00E+00	4.90E-09	1.31E-09	9.75E-10	3.22E-11	0.00E+00	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	763080.57	4070603.91	1.62E-08	1.39E-08	5.64E-10	0.00E+00	3.07E-08	2.48E-09	2.15E-09	8.55E-11	0.00E+00	4.71E-09	1.26E-09	9.37E-10	3.10E-11	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	763070.73	4070626.14	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	0.00E+00
1776	763060.88	4070648.37	1.51E-08	1.29E-08	5.24E-10	0.00E+00	2.86E-08	2.30E-09	2.00E-09	7.94E-11	0.00E+00	4.37E-09	1.17E-09	8.71E-10	2.88E-11	0.00E+00	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	763051.04	4070670.6	1.45E-08	1.24E-08	5.04E-10	0.00E+00	2.74E-08	2.21E-09	1.92E-09	7.63E-11	0.00E+00	4.20E-09	1.12E-09	8.37E-10	2.77E-11	0.00E+00	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	763041.19	4070692.83	1.40E-08	1.20E-08	4.84E-10	0.00E+00	2.64E-08	2.13E-09	1.85E-09	7.34E-11	0.00E+00	4.05E-09	1.08E-09	8.05E-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
1779	763031.35	4070715.06	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	0.00E+00
1780	763021.5	4070737.29	1.28E-08	1.10E-08	4.46E-10	0.00E+00	2.43E-08	1.96E-09	1.70E-09	6.75E-11	0.00E+00	3.72E-09	9.92E-10	7.41E-10	2.45E-11	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	763011.66	4070759.52	1.23E-08	1.05E-08	4.27E-10	0.00E+00	2.33E-08	1.87E-09	1.62E-09	6.47E-11	0.00E+00	3.56E-09	9.50E-10	7.09E-10	2.34E-11	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	763001.82	4070781.75	1.18E-08	1.01E-08	4.11E-10	0.00E+00	2.24E-08	1.80E-09	1.56E-09	6.22E-11	0.00E+00	3.43E-09	9.14E-10	6.82E-10	2.25E-11	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	762991.97	4070803.98	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	0.00E+00
1784	762913.74	4070851.55	1.05E-08	8.97E-09	3.63E-10	0.00E+00	1.98E-08	1.59E-09	1.38E-09	5.50E-11	0.00E+00	3.03E-09	8.09E-10	6.04E-10	1.99E-11	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	762890.94	4070859.99	1.03E-08	8.83E-09	3.58E-10	0.00E+00	1.95E-08	1.57E-09	1.36E-09	5.42E-11	0.00E+00	2.99E-09	7.96E-10	5.94E-10	1.96E-11	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	762868.14	4070868.44	1.02E-08	8.71E-09	3.53E-10	0.00E+00	1.92E-08	1.55E-09	1.34E-09	5.35E-11	0.00E+00	2.95E-09	7.85E-10	5.86E-10	1.94E-11	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	762799.75	4070893.78	9.79E-09	8.39E-09	3.40E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.15E-11	0.00E+00	2.84E-09	7.57E-10	5.65E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	762776.96	4070902.23	9.68E-09	8.30E-09	3.36E-10	0.00E+00	1.83E-08	1.48E-09	1.28E-09	5.09E-11	0.00E+00	2.81E-09	7.48E-10	5.59E-10	1.85E-11	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	762754.16	4070910.68	9.59E-09	8.23E-09	3.33E-10	0.00E+00	1.82E-08	1.46E-09	1.27E-09	5.05E-11	0.00E+00	2.78E-09	7.42E-10	5.53E-10	1.83E-11	0.00E+00	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	762685.77	4070936.02	9.52E-09	8.17E-09	3.31E-10	0.00E+00	1.80E-08	1.45E-09	1.26E-09	5.01E-11	0.00E+00	2.76E-09	7.36E-10	5.49E-10	1.82E-11	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	763297.57	4070090.17	5.55E-08	4.75E-08	1.92E-09	0.00E+00	1.05E-07	8.45E-09	7.33E-09	2.92E-10	0.00E+00	1.61E-08	4.29E-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
1792	763298	4070065.47	5.87E-08	5.03E-08	2.04E-09	0.00E+00	1.11E-07	8.94E-09	7.76E-09	3.09E-10	0.00E+00	1.70E-08	4.54E-09	3.39E-09	1.12E-10	0.00E+00	8.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	763298.43	4070040.77	6.18E-08	5.29E-08	2.14E-09	0.00E+00	1.17E-07	9.41E-09	8.16E-09	3.25E-10	0.00E+00	1.79E-08	4.77E-09	3.56E-09	1.18E-10	0.00E+00	8.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	763298.85	4070016.07	6.50E-08	5.57E-08	2.26E-09	0.00E+00	1.23E-07	9.90E-09	8.59E-09	3.42E-10	0.00E+00	1.88E-08	5.02E-09	3.75E-09	1.24E-10	0.00E+00	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	763299.28	4069991.37	6.82E-08	5.84E-08	2.37E-09	0.00E+00	1.29E-07	1.04E-08	9.01E-09	3.59E-10	0.00E+00	1.98E-08	5.27E-09	3.93E-09	1.30E-10	0.00E+00	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	763299.71	4069966.67	7.13E-08	6.12E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.43E-09	3.75E-10	0.00E+00	2.07E-08	5.51E-09	4.11E-09	1.36E-10	0.00E+00	9.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	763300.14	4069941.97	7.46E-08	6.39E-08	2.59E-09	0.00E+00	1.41E-07	1.14E-08	9.86E-09	3.92E-10	0.00E+00	2.16E-08	5.76E-09	4.30E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	763300.57	4069917.27	7.79E-08	6.68E-08	2.70E-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	4.49E-09	1.48E-10	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	763387.22	4070138.96	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	0.00E+00
1800	763377.32	4070161.31	4.35E-08	3.73E-08	1.51E-09	0.00E+00	8.24E-08	6.63E-09	5.76E-09	2.29E-10	0.00E+00	1.26E-08	3.37E-09	2.51E-09	8.30E-11	0.00E+00	5.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	763367.42	4070183.67	4.11E-08	3.53E-08	1.43E-09	0.00E+00	7.79E-08	6.27E-09	5.44E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.84E-11	0.00E+00	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	763357.52	4070206.03	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	0.00E+00
1803	763347.62	4070228.38	3.67E-08	3.14E-08	1.27E-09	0.00E+00	6.94E-08	5.59E-09	4.85E-09	1.93E-10	0.00E+00	1.06E-08	2.83E-09	2.12E-09	6.99E-11	0.00E+00	5.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	763337.72	4070250.74	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
1805	763327.82	4070273.1	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	0.00E+00
1806	763317.92	4070295.45	3.09E-08	2.65E-08	1.07E-09	0.00E+00	5.84E-08	4.70E-09	4.08E-09	1.62E-10	0.00E+00	8.94E-09	2.39E-09	1.78E-09	5.88E-11	0.00E+00	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	763248.62	4070451.95	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	0.00E+00
1808	763238.72	4070474.3	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	0.00E+00
1809	763228.82	4070496.66	1.94E-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
1810	763218.92	4070519.02	1.84E-08	1.58E-08	6.40E-10	0.00E+00	3.49E-08	2.81E-09	2.44E-09	9.69E-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
1811	763209.02	4070541.37	1.76E-08	1.51E-08	6.09E-10	0.00E+00	3.32E-08	2.68E-09	2.32E-09	9.24E-11	0.00E+00	5.09E-09	1.36E-09	1.01E-09	3.35E-11	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	763199.12	4070563.73	1.68E-08	1.44E-08	5.83E-10	0.00E+00	3.18E-08	2.56E-09	2.22E-09	8.84E-11	0.00E+00	4.87E-09	1.30E-09	9.69E-10	3.20E-11	0.00E+00	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	763189.22	4070586.09	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	0.00E+00
1814	763179.32	4070608.44	1.54E-08	1.32E-08	5.35E-10	0.00E+00	2.92E-08	2.35E-09	2.04E-09	8.11E-11	0.00E+00	4.47E-09	1.19E-09	8.89E-10	2.94E-11	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	763169.42	4070630.8	1.48E-08	1.27E-08	5.15E-10	0.00E+00	2.81E-08	2.26E-09	1.96E-09	7.81E-11	0.00E+00	4.30E-09	1.15E-09	8.56E-10	2.83E-11	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	763159.52	4070653.15	1.44E-08	1.23E-08	4.99E-10	0.00E+00	2.72E-08	2.19E-09	1.90E-09	7.56E-11	0.00E+00	4.16E-09	1.11E-09	8.29E-10	2.74E-11	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	0.00E+00
1827	762981.83	4070924.56	9.33E-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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
1842	763400.55	4069919	6.88E-08	5.90E-08	2.39E-09	0.00E+00	1.30E-07	1.05E-08	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
1858	763337.95	4070477.75	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	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	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	763318.05	4070522.68	1.78E-08	1.53E-08	6.19E-10	0.00E+00	3.37E-08	2.72E-09	2.36E-09	9.38E-11	0.00E+00	5.17E-09	1.38E-09	1.03E-09	3.40E-11	0.00E+00	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	763308.1	4070545.14	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	9.81E-10	3.24E-11	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	763298.16	4070567.6	1.62E-08	1.39E-08	5.62E-10	0.00E+00	3.06E-08	2.47E-09	2.14E-09	8.52E-11	0.00E+00	4.69E-09	1.25E-09	9.34E-10	3.09E-11	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	763288.21	4070590.07	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	0.00E+00
1864	763278.26	4070612.53	1.48E-08	1.27E-08	5.14E-10	0.00E+00	2.80E-08	2.26E-09	1.96E-09	7.79E-11	0.00E+00	4.29E-09	1.14E-09	8.54E-10	2.82E-11	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	763268.31	4070634.99	1.42E-08	1.22E-08	4.94E-10	0.00E+00	2.69E-08	2.17E-09	1.88E-09	7.48E-11	0.00E+00	4.12E-09	1.10E-09	8.20E-10	2.71E-11	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	763258.36	4070657.46	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	0.00E+00
1867	763248.42	4070679.92	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	0.00E+00
1868	763238.47	4070702.38	1.29E-08	1.11E-08	4.48E-10	0.00E+00	2.44E-08	1.97E-09	1.71E-09	6.79E-11	0.00E+00	3.74E-09	9.98E-10	7.45E-10	2.46E-11	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	763228.52	4070724.85	1.26E-08	1.08E-08	4.36E-10	0.00E+00	2.38E-08	1.92E-09	1.66E-09	6.61E-11	0.00E+00	3.64E-09	9.72E-10	7.25E-10	2.40E-11	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	763218.57	4070747.31	1.22E-08	1.05E-08	4.25E-10	0.00E+00	2.32E-08	1.86E-09	1.62E-09	6.44E-11	0.00E+00	3.55E-09	9.46E-10	7.06E-10	2.33E-11	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	763208.63	4070769.77	1.19E-08	1.02E-08	4.12E-10	0.00E+00	2.25E-08	1.81E-09	1.57E-09	6.25E-11	0.00E+00	3.44E-09	9.18E-10	6.85E-10	2.27E-11	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	763198.68	4070792.24	1.15E-08	9.90E-09	4.01E-10	0.00E+00	2.18E-08	1.76E-09	1.53E-09	6.07E-11	0.00E+00	3.35E-09	8.92E-10	6.66E-10	2.20E-11	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	763188.73	4070814.7	1.12E-08	9.58E-09	3.88E-10	0.00E+00	2.11E-08	1.70E-09	1.48E-09	5.88E-11	0.00E+00	3.24E-09	8.64E-10	6.44E-10	2.13E-11	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	763178.78	4070837.16	1.08E-08	9.28E-09	3.75E-10	0.00E+00	2.05E-08	1.65E-09	1.43E-09	5.69E-11	0.00E+00	3.14E-09	8.36E-10	6.24E-10	2.06E-11	0.00E+00	1.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	763168.83	4070859.63	1.05E-08	8.97E-09	3.63E-10	0.00E+00	1.98E-08	1.59E-09	1.38E-09	5.50E-11	0.00E+00	3.03E-09	8.09E-10	6.04E-10	1.99E-11	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	763158.89	4070882.09	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	0.00E+00
1877	763148.94	4070904.55	9.79E-09	8.39E-09	3.40E-10	0.00E+00	1.85E-08	1.49E-09	1.29E-09	5.15E-11	0.00E+00	2.84E-09	7.57E-10	5.65E-10	1.87E-11	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	763138.99	4070927.02	9.47E-09	8.12E-09	3.29E-10	0.00E+00	1.79E-08	1.44E-09	1.25E-09	4.98E-11	0.00E+00	2.74E-09	7.32E-10	5.46E-10	1.81E-11	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	763129.04	4070949.48	9.13E-09	7.83E-09	3.17E-10	0.00E+00	1.73E-08	1.39E-09	1.21E-09	4.80E-11	0.00E+00	2.65E-09	7.06E-10	5.27E-10	1.74E-11	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	763096.06	4070980.48	8.64E-09	7.41E-09	3.00E-10	0.00E+00	1.63E-08	1.32E-09	1.14E-09	4.54E-11	0.00E+00	2.50E-09	6.68E-10	4.98E-10	1.65E-11	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	763073.02	4070989.02	8.48E-09	7.27E-09	2.94E-10	0.00E+00	1.60E-08	1.29E-09	1.12E-09	4.46E-11	0.00E+00	2.46E-09	6.55E-10	4.89E-10	1.62E-11	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	763049.99	4070997.55	8.32E-09	7.13E-09	2.89E-10	0.00E+00	1.57E-08	1.27E-09	1.10E-09	4.38E-11	0.00E+00	2.41E-09	6.43E-10	4.80E-10	1.59E-11	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	763026.95	4071006.09	8.18E-09	7.01E-09	2.84E-10	0.00E+00	1.55E-08	1.25E-09	1.08E-09	4.30E-11	0.00E+00	2.37E-09	6.32E-10	4.72E-10	1.56E-11	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	763003.91	4071014.62	8.03E-09	6.89E-09	2.79E-10	0.00E+00	1.52E-08	1.22E-09	1.06E-09	4.23E-11	0.00E+00	2.33E-09	6.21E-10	4.63E-10	1.53E-11	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	762934.8	4071040.23	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
1886	762911.76	4071048.77	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	0.00E+00
1887	762888.73	4071057.3	7.61E-09	6.52E-09	2.64E-10	0.00E+00	1.44E-08	1.16E-09	1.01E-09	4.00E-11	0.00E+00	2.21E-09	5.88E-10	4.39E-10	1.45E-11	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	762819.62	4071082.91	7.52E-09	6.45E-09	2.61E-10	0.00E+00	1.42E-08	1.15E-09	9.94E-10	3.96E-11	0.00E+00	2.18E-09	5.81E-10	4.34E-10	1.43E-11	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1889	763497.11	4070118.34	4.43E-08	3.80E-08	1.54E-09	0.00E+00	8.38E-08	6.74E-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	0.00E+00
1890	763497.54	4070093.64	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	0.00E+00
1891	763497.97	4070068.94	4.88E-08	4.19E-08	1.69E-09	0.00E+00	9.24E-08	7.44E-09	6.45E-09	2.57E-10	0.00E+00	1.42E-08	3.77E-09	2.82E-09	9.31E-11	0.00E+00	6.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	763498.4	4070044.24	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	0.00E+00
1893	763498.82	4070019.54	5.28E-08	4.53E-08	1.83E-09	0.00E+00	9.99E-08	8.04E-09	6.98E-09	2.78E-10	0.00E+00	1.53E-08	4.08E-09	3.04E-09	1.01E-10	0.00E+00	7.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	763499.25	4069994.84	5.48E-08	4.70E-08	1.90E-09	0.00E+00	1.04E-07	8.36E-09	7.25E-09	2.88E-10	0.00E+00	1.59E-08	4.24E-09	3.16E-09	1.05E-10	0.00E+00	7.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	763499.68	4069970.14	5.71E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.69E-09	7.54E-09	3.00E-10	0.00E+00	1.65E-08	4.41E-09	3.29E-09	1.09E-10	0.00E+00	7.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	763500.11	4069945.44	5.95E-08	5.10E-08	2.07E-09	0.00E+00	1.13E-07	9.07E-09	7.87E-09	3.13E-10	0.00E+00	1.72E-08	4.60E-09	3.43E-09	1.13E-10	0.00E+00	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	763500.54	4069920.74	6.19E-08	5.31E-08	2.15E-09	0.00E+00	1.17E-07	9.43E-09	8.18E-09	3.26E-10	0.00E+00	1.79E-08	4.78E-09	3.57E-09	1.18E-10	0.00E+00	8.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	762301.91	4069874.94	1.14E-05	9.78E-06	3.96E-07	0.00E+00	2.16E-05	1.74E-06	1.51E-06	6.00E-08	0.00E+00	3.30E-06	8.81E-07	6.58E-07	2.17E-08	0.00E+00	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	762277.14	4069873.76	1.21E-05	1.04E-05	4.21E-07	0.00E+00	2.29E-05	1.85E-06	1.60E-06	6.38E-08	0.00E+00	3.52E-06	9.37E-07	7.00E-07	2.31E-08	0.00E+00	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	762252.37	4069872.58	1.23E-05	1.05E-05	4.27E-07	0.00E+00	2.33E-05	1.87E-06	1.63E-06	6.47E-08	0.00E+00	3.57E-06	9.51E-07	7.10E-07	2.35E-08	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	762227.59	4069871.4	1.23E-05	1.06E-05	4.28E-07	0.00E+00	2.33E-05	1.88E-06	1.63E-06	6.49E-08	0.00E+00	3.57E-06	9.53E-07	7.11E-07	2.35E-08	0.00E+00	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	762202.82	4069870.23	1.23E-05	1.05E-05	4.27E-07	0.00E+00	2.33E-05	1.87E-06	1.63E-06	6.47E-08	0.00E+00	3.56E-06	9.50E-07	7.09E-07	2.34E-08	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	762178.05	4069869.05	1.22E-05	1.05E-05	4.23E-07	0.00E+00	2.31E-05	1.86E-06	1.61E-06	6.41E-08	0.00E+00	3.53E-06	9.42E-07	7.03E-07	2.32E-08	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	762153.28	4069867.87	1.20E-05	1.03E-05	4.16E-07	0.00E+00	2.27E-05	1.83E-06	1.58E-06	6.30E-08	0.00E+00	3.47E-06	9.26E-07	6.91E-07	2.28E-08	0.00E+00	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	762128.51	4069866.69	1.16E-05	9.97E-06	4.03E-07	0.00E+00	2.20E-05	1.77E-06	1.54E-06	6.12E-08	0.00E+00	3.37E-06	8.99E-07	6.71E-07	2.22E-08	0.00E+00	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	762103.74	4069865.51	1.11E-05	9.51E-06	3.85E-07	0.00E+00	2.10E-05	1.69E-06	1.47E-06	5.84E-08	0.00E+00	3.22E-06	8.58E-07	6.40E-07	2.12E-08	0.00E+00	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	762078.97	4069864.34	1.04E-05	8.90E-06	3.60E-07	0.00E+00	1.96E-05	1.58E-06	1.37E-06	5.46E-08	0.00E+00	3.01E-06	8.02E-07	5.99E-07	1.98E-08	0.00E+00	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	762054.2	4069863.16	9.62E-06	8.25E-06	3.34E-07	0.00E+00	1.82E-05	1.47E-06	1.27E-06	5.06E-08	0.00E+00	2.79E-06	7.44E-07	5.55E-07	1.83E-08	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	762029.42	4069861.98	9.20E-06	7.89E-06	3.19E-07	0.00E+00	1.74E-05	1.40E-06	1.22E-06	4.84E-08	0.00E+00	2.67E-06	7.11E-07	5.31E-07	1.75E-08	0.00E+00	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	762004.65	4069860.8	8.43E-06	7.22E-06	2.92E-07	0.00E+00	1.59E-05	1.28E-06	1.11E-06	4.43E-08	0.00E+00	2.44E-06	6.51E-07	4.86E-07	1.61E-08	0.00E+00	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1911	761979.88	4069859.62	7.03E-06	6.03E-06	2.44E-07	0.00E+00	1.33E-05	1.07E-06	9.29E-07	3.70E-08	0.00E+00	2.04E-06	5.43E-07	4.05E-07	1.34E-08	0.00E+00	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	761955.11	4069858.44	5.41E-06	4.64E-06	1.88E-07	0.00E+00	1.02E-05	8.24E-07	7.15E-07	2.85E-08	0.00E+00	1.57E-06	4.18E-07	3.12E-07	1.03E-08	0.00E+00	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	761930.34	4069857.27	2.97E-06	2.54E-06	1.03E-07	0.00E+00	5.61E-06	4.52E-07	3.92E-07	1.56E-08	0.00E+00	8.60E-07	2.29E-07	1.71E-07	5.66E-09	0.00E+00	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	761905.57	4069856.09	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	0.00E+00
1915	762320.15	4069857.84	8.31E-06	7.12E-06	2.88E-07	0.00E+00	1.57E-05	1.27E-06	1.10E-06	4.37E-08	0.00E+00	2.41E-06	6.42E-07	4.79E-07	1.58E-08	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	762278.32	4069848.79	8.50E-06	7.29E-06	2.95E-07	0.00E+00	1.61E-05	1.29E-06	1.12E-06	4.47E-08	0.00E+00	2.46E-06	6.57E-07	4.90E-07	1.62E-08	0.00E+00	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	762253.55	4069847.61	8.56E-06	7.34E-06	2.97E-07	0.00E+00	1.62E-05	1.30E-06	1.13E-06	4.50E-08	0.00E+00	2.48E-06	6.61E-07	4.94E-07	1.63E-08	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	762228.78	4069846.43	8.52E-06	7.30E-06	2.96E-07	0.00E+00	1.61E-05	1.30E-06	1.13E-06	4.48E-08	0.00E+00	2.47E-06	6.58E-07	4.91E-07	1.62E-08	0.00E+00	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	762204.01	4069845.25	8.42E-06	7.22E-06	2.92E-07	0.00E+00	1.59E-05	1.28E-06	1.11E-06	4.43E-08	0.00E+00	2.44E-06	6.50E-07	4.85E-07	1.60E-08	0.00E+00	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	762179.24	4069844.08	8.25E-06	7.07E-06	2.86E-07	0.00E+00	1.56E-05	1.26E-06	1.09E-06	4.34E-08	0.00E+00	2.39E-06	6.38E-07	4.76E-07	1.57E-08	0.00E+00	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	762154.47	4069842.9	7.99E-06	6.85E-06	2.77E-07	0.00E+00	1.51E-05	1.22E-06	1.06E-06	4.20E-08	0.00E+00	2.32E-06	6.18E-07	4.61E-07	1.52E-08	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	762129.7	4069841.72	7.70E-06	6.60E-06	2.67E-07	0.00E+00	1.46E-05	1.17E-06	1.02E-06	4.05E-08	0.00E+00	2.23E-06	5.95E-07	4.44E-07	1.47E-08	0.00E+00	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	762104.93	4069840.54	7.32E-06	6.27E-06	2.54E-07	0.00E+00	1.38E-05	1.11E-06	9.67E-07	3.85E-08	0.00E+00	2.12E-06	5.65E-07	4.22E-07	1.39E-08	0.00E+00	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	762080.15	4069839.36	6.84E-06	5.87E-06	2.37E-07	0.00E+00	1.29E-05	1.04E-06	9.05E-07	3.60E-08	0.00E+00	1.98E-06	5.29E-07	3.95E-07	1.30E-08	0.00E+00	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	762055.38	4069838.19	6.26E-06	5.37E-06	2.17E-07	0.00E+00	1.18E-05	9.53E-07	8.27E-07	3.29E-08	0.00E+00	1.81E-06	4.84E-07	3.61E-07	1.19E-08	0.00E+00	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	762030.61	4069837.01	5.55E-06	4.76E-06	1.93E-07	0.00E+00	1.05E-05	8.46E-07	7.34E-07	2.92E-08	0.00E+00	1.61E-06	4.29E-07	3.20E-07	1.06E-08	0.00E+00	7.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	762005.84	4069835.83	4.64E-06	3.98E-06	1.61E-07	0.00E+00	8.78E-06	7.07E-07	6.13E-07	2.44E-08	0.00E+00	1.34E-06	3.59E-07	2.68E-07	8.84E-09	0.00E+00	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	761981.07	4069834.65	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	6.93E-09	0.00E+00	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	761956.3	4069833.47	2.43E-06	2.08E-06	8.44E-08	0.00E+00	4.60E-06	3.70E-07	3.21E-07	1.28E-08	0.00E+00	7.05E-07	1.88E-07	1.40E-07	4.63E-09	0.00E+00	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	761931.53	4069832.29	1.31E-06	1.12E-06	4.53E-08	0.00E+00	2.47E-06	1.99E-07	1.73E-07	6.87E-09	0.00E+00	3.78E-07	1.01E-07	7.53E-08	2.49E-09	0.00E+00	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	761906.76	4069831.12	6.38E-07	5.47E-07	2.21E-08	0.00E+00	1.21E-06	9.72E-08	8.43E-08	3.36E-09	0.00E+00	1.85E-07	4.93E-08	3.68E-08	1.22E-09	0.00E+00	8.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	762321.34	4069832.87	6.60E-06	5.66E-06	2.29E-07	0.00E+00	1.25E-05	1.00E-06	8.72E-07	3.47E-08	0.00E+00	1.91E-06	5.10E-07	3.80E-07	1.26E-08	0.00E+00	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	762362.2	4069866.15	6.09E-06	5.22E-06	2.11E-07	0.00E+00	1.15E-05	9.27E-07	8.05E-07	3.20E-08	0.00E+00	1.76E-06	4.70E-07	3.51E-07	1.16E-08	0.00E+00	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	762279.51	4069823.82	6.53E-06	5.60E-06	2.27E-07	0.00E+00	1.24E-05	9.96E-07	8.64E-07	3.44E-08	0.00E+00	1.89E-06	5.05E-07	3.77E-07	1.25E-08	0.00E+00	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	762254.74	4069822.64	6.53E-06	5.60E-06	2.27E-07	0.00E+00	1.24E-05	9.95E-07	8.63E-07	3.43E-08	0.00E+00	1.89E-06	5.05E-07	3.77E-07	1.24E-08	0.00E+00	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	762229.97	4069821.46	6.45E-06	5.53E-06	2.24E-07	0.00E+00	1.22E-05	9.83E-07	8.53E-07	3.39E-08	0.00E+00	1.87E-06	4.99E-07	3.72E-07	1.23E-08	0.00E+00	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	762205.2	4069820.28	6.31E-06	5.41E-06	2.19E-07	0.00E+00	1.19E-05	9.62E-07	8.35E-07	3.32E-08	0.00E+00	1.83E-06	4.88E-07	3.64E-07	1.20E-08	0.00E+00	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	762180.43	4069819.1	6.11E-06	5.24E-06	2.12E-07	0.00E+00	1.16E-05	9.31E-07	8.08E-07	3.22E-08	0.00E+00	1.77E-06	4.72E-07	3.53E-07	1.17E-08	0.00E+00	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	762155.66	4069817.93	5.80E-06	4.97E-06	2.01E-07	0.00E+00	1.10E-05	8.83E-07	7.66E-07	3.05E-08	0.00E+00	1.68E-06	4.48E-07	3.34E-07	1.10E-08	0.00E+00	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	762130.88	4069816.75	5.43E-06	4.66E-06	1.88E-07	0.00E+00	1.03E-05	8.27E-07	7.18E-07	2.86E-08	0.00E+00	1.57E-06	4.20E-07	3.13E-07	1.04E-08	0.00E+00	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	762106.11	4069815.57	5.03E-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	0.00E+00
1942	762081.34	4069814.39	4.60E-06	3.94E-06	1.60E-07	0.00E+00	8.71E-06	7.01E-07	6.08E-07	2.42E-08	0.00E+00	1.33E-06	3.56E-07	2.65E-07	8.77E-09	0.00E+00	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	762056.57	4069813.21	4.12E-06	3.53E-06	1.43E-07	0.00E+00	7.79E-06	6.27E-07	5.44E-07	2.17E-08	0.00E+00	1.19E-06	3.18E-07	2.38E-07	7.85E-09	0.00E+00	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	762031.8	4069812.04	3.53E-06	3.02E-06	1.22E-07	0.00E+00	6.67E-06	5.37E-07	4.66E-07	1.86E-08	0.00E+00	1.02E-06	2.73E-07	2.03E-07	6.72E-09	0.00E+00	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	762007.03	4069810.86	2.80E-06	2.40E-06	9.70E-08	0.00E+00	5.29E-06	4.26E-07	3.70E-07	1.47E-08	0.00E+00	8.10E-07	2.16E-07	1.61E-07	5.33E-09	0.00E+00	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	761982.26	4069809.68	2.07E-06	1.77E-06	7.18E-08	0.00E+00	3.92E-06	3.15E-07	2.74E-07	1.09E-08	0.00E+00	6.00E-07	1.60E-07	1.19E-07	3.95E-09	0.00E+00	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	7.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	761935.09	4069757.38	3.90E-07	3.34E-07	1.35E-08	0.00E+00	7.38E-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	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	761910.32	4069756.2	2.71E-07	2.32E-07	9.39E-09	0.00E+00	5.12E-07	4.12E-08	3.58E-08	1.42E-09	0.00E+00	7.84E-08	2.09E-08	1.56E-08	5.16E-10	0.00E+00	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	762328.31	4069759.53	3.86E-06	3.31E-06	1.34E-07	0.00E+00	7.30E-06	5.87E-07	5.10E-07	2.03E-08	0.00E+00	1.12E-06	2.98E-07	2.22E-07	7.35E-09	0.00E+00	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	762348.78	4069768.98	3.99E-06	3.42E-06	1.38E-07	0.00E+00	7.55E-06	6.08E-07	5.27E-07	2.10E-08	0.00E+00	1.16E-06	3.08E-07	2.30E-07	7.60E-09	0.00E+00	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	762369.24	4069778.44	4.01E-06	3.44E-06	1.39E-07	0.00E+00	7.58E-06	6.11E-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	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	762389.71	4069787.89	3.89E-06	3.33E-06	1.35E-07	0.00E+00	7.35E-06	5.92E-07	5.14E-07	2.04E-08	0.00E+00	1.13E-06	3.00E-07	2.24E-07	7.41E-09	0.00E+00	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	762418.28	4069818.37	3.58E-06	3.07E-06	1.24E-07	0.00E+00	6.78E-06	5.46E-07	4.74E-07	1.88E-08	0.00E+00	1.04E-06	2.77E-07	2.07E-07	6.83E-09	0.00E+00	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	762426.38	4069839.41	3.39E-06	2.91E-06	1.18E-07	0.00E+00	6.42E-06	5.17E-07	4.49E-07	1.79E-08	0.00E+00	9.84E-07	2.62E-07	1.96E-07	6.47E-09	0.00E+00	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	762434.49	4069860.44	3.09E-06	2.65E-06	1.07E-07	0.00E+00	5.84E-06	4.70E-07	4.08E-07	1.62E-08	0.00E+00	8.95E-07	2.39E-07	1.78E-07	5.88E-09	0.00E+00	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	762307.85	4069750.08	3.65E-06	3.13E-06	1.27E-07	0.00E+00	6.92E-06	5.57E-07	4.83E-07	1.92E-08	0.00E+00	1.06E-06	2.82E-07	2.11E-07	6.97E-09	0.00E+00	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	762283.07	4069748.9	3.60E-06	3.09E-06	1.25E-07	0.00E+00	6.81E-06	5.49E-07	4.76E-07	1.89E-08	0.00E+00	1.04E-06	2.78E-07	2.08E-07	6.87E-09	0.00E+00	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	762258.3	4069747.72	3.50E-06	3.00E-06	1.22E-07	0.00E+00	6.62E-06	5.33E-07	4.63E-07	1.84E-08	0.00E+00	1.01E-06	2.71E-07	2.02E-07	6.67E-09	0.00E+00	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2002	762233.53	4069746.54	3.36E-06	2.88E-06	1.17E-07	0.00E+00	6.35E-06	5.12E-07	4.44E-07	1.77E-08	0.00E+00	9.73E-07	2.60E-07	1.94E-07	6.40E-09	0.00E+00	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	762208.76	4069745.37	3.18E-06	2.73E-06	1.10E-07	0.00E+00	6.02E-06	4.84E-07	4.20E-07	1.67E-08	0.00E+00	9.22E-07	2.46E-07	1.83E-07	6.06E-09	0.00E+00	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	762183.99	4069744.19	2.93E-06	2.51E-06	1.02E-07	0.00E+00	5.53E-06	4.46E-07	3.87E-07	1.54E-08	0.00E+00	8.48E-07	2.26E-07	1.69E-07	5.58E-09	0.00E+00	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	762159.22	4069743.01	2.63E-06	2.26E-06	9.14E-08	0.00E+00	4.98E-06	4.01E-07	3.48E-07	1.38E-08	0.00E+00	7.63E-07	2.03E-07	1.52E-07	5.02E-09	0.00E+00	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	762134.45	4069741.83	2.34E-06	2.01E-06	8.14E-08	0.00E+00	4.44E-06	3.57E-07	3.10E-07	1.23E-08	0.00E+00	6.80E-07	1.81E-07	1.35E-07	4.47E-09	0.00E+00	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	762109.68	4069740.65	2.07E-06	1.78E-06	7.20E-08	0.00E+00	3.92E-06	3.16E-07	2.74E-07	1.09E-08	0.00E+00	6.01E-07	1.60E-07	1.20E-07	3.95E-09	0.00E+00	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	762084.9	4069739.48	1.82E-06	1.56E-06	6.31E-08	0.00E+00	3.44E-06	2.77E-07	2.40E-07	9.57E-09	0.00E+00	5.27E-07	1.41E-07	1.05E-07	3.47E-09	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	762060.13	4069738.3	1.50E-06	1.28E-06	5.20E-08	0.00E+00	2.84E-06	2.28E-07	1.98E-07	7.88E-09	0.00E+00	4.34E-07	1.16E-07	8.64E-08	2.86E-09	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	762035.36	4069737.12	1.17E-06	1.00E-06	4.06E-08	0.00E+00	2.21E-06	1.78E-07	1.55E-07	6.15E-09	0.00E+00	3.39E-07	9.04E-08	6.75E-08	2.23E-09	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	762010.59	4069735.94	8.71E-07	7.47E-07	3.02E-08	0.00E+00	1.65E-06	1.33E-07	1.15E-07	4.58E-09	0.00E+00	2.52E-07	6.73E-08	5.02E-08	1.66E-09	0.00E+00	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	761985.82	4069734.76	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	0.00E+00
2013	761961.05	4069733.59	4.33E-07	3.72E-07	1.50E-08	0.00E+00	8.20E-07	6.60E-08	5.73E-08	2.28E-09	0.00E+00	1.26E-07	3.35E-08	2.50E-08	8.26E-10	0.00E+00	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	761936.28	4069732.41	3.05E-07	2.61E-07	1.06E-08	0.00E+00	5.76E-07	4.64E-08	4.03E-08	1.60E-09	0.00E+00	8.83E-08	2.35E-08	1.76E-08	5.81E-10	0.00E+00	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	761911.51	4069731.23	2.22E-07	1.91E-07	7.71E-09	0.00E+00	4.20E-07	3.39E-08	2.94E-08	1.17E-09	0.00E+00	6.44E-08	1.72E-08	1.28E-08	4.24E-10	0.00E+00	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	762328.93	4069734.3	3.30E-06	2.83E-06	1.14E-07	0.00E+00	6.24E-06	5.02E-07	4.36E-07	1.73E-08	0.00E+00	9.55E-07	2.55E-07	1.90E-07	6.28E-09	0.00E+00	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	762368.72	4069752.68	3.52E-06	3.02E-06	1.22E-07	0.00E+00	6.66E-06	5.36E-07	4.65E-07	1.85E-08	0.00E+00	1.02E-06	2.72E-07	2.03E-07	6.71E-09	0.00E+00	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	762408.52	4069771.06	3.39E-06	2.90E-06	1.18E-07	0.00E+00	6.41E-06	5.16E-07	4.48E-07	1.78E-08	0.00E+00	9.81E-07	2.62E-07	1.95E-07	6.46E-09	0.00E+00	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	762436.29	4069800.7	3.12E-06	2.68E-06	1.08E-07	0.00E+00	5.91E-06	4.76E-07	4.13E-07	1.64E-08	0.00E+00	9.05E-07	2.41E-07	1.80E-07	5.95E-09	0.00E+00	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	762452.05	4069841.6	2.75E-06	2.36E-06	9.54E-08	0.00E+00	5.20E-06	4.19E-07	3.63E-07	1.45E-08	0.00E+00	7.97E-07	2.12E-07	1.59E-07	5.24E-09	0.00E+00	3.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	762284.26	4069723.93	3.03E-06	2.60E-06	1.05E-07	0.00E+00	5.74E-06	4.62E-07	4.01E-07	1.59E-08	0.00E+00	8.79E-07	2.34E-07	1.75E-07	5.78E-09	0.00E+00	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	762259.49	4069722.75	2.92E-06	2.50E-06	1.01E-07	0.00E+00	5.52E-06	4.45E-07	3.86E-07	1.54E-08	0.00E+00	8.46E-07	2.26E-07	1.68E-07	5.57E-09	0.00E+00	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	762234.72	4069721.57	2.77E-06	2.38E-06	9.63E-08	0.00E+00	5.25E-06	4.23E-07	3.67E-07	1.46E-08	0.00E+00	8.04E-07	2.14E-07	1.60E-07	5.29E-09	0.00E+00	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	762209.95	4069720.4	2.59E-06	2.22E-06	9.01E-08	0.00E+00	4.91E-06	3.95E-07	3.43E-07	1.37E-08	0.00E+00	7.52E-07	2.01E-07	1.50E-07	4.95E-09	0.00E+00	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	762185.18	4069719.22	2.37E-06	2.03E-06	8.23E-08	0.00E+00	4.49E-06	3.62E-07	3.14E-07	1.25E-08	0.00E+00	6.88E-07	1.83E-07	1.37E-07	4.52E-09	0.00E+00	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	762160.41	4069718.04	2.11E-06	1.81E-06	7.31E-08	0.00E+00	3.98E-06	3.21E-07	2.78E-07	1.11E-08	0.00E+00	6.10E-07	1.63E-07	1.21E-07	4.01E-09	0.00E+00	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	762135.63	4069716.86	1.85E-06	1.59E-06	6.43E-08	0.00E+00	3.51E-06	2.82E-07	2.45E-07	9.75E-09	0.00E+00	5.37E-07	1.43E-07	1.07E-07	3.53E-09	0.00E+00	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	762110.86	4069715.68	1.62E-06	1.39E-06	5.61E-08	0.00E+00	3.06E-06	2.46E-07	2.14E-07	8.50E-09	0.00E+00	4.68E-07	1.25E-07	9.32E-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
2029	762086.09	4069714.5	1.38E-06	1.18E-06	4.79E-08	0.00E+00	2.61E-06	2.10E-07	1.82E-07	7.26E-09	0.00E+00	4.00E-07	1.07E-07	7.96E-08	2.63E-09	0.00E+00	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	762061.32	4069713.33	1.11E-06	9.55E-07	3.87E-08	0.00E+00	2.11E-06	1.70E-07	1.47E-07	5.86E-09	0.00E+00	3.23E-07	8.61E-08	6.43E-08	2.12E-09	0.00E+00	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	762036.55	4069712.15	8.61E-07	7.39E-07	2.99E-08	0.00E+00	1.63E-06	1.31E-07	1.14E-07	4.53E-09	0.00E+00	2.50E-07	6.66E-08	4.97E-08	1.64E-09	0.00E+00	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	762011.78	4069710.97	6.42E-07	5.51E-07	2.23E-08	0.00E+00	1.22E-06	9.79E-08	8.49E-08	3.38E-09	0.00E+00	1.86E-07	4.97E-08	3.71E-08	1.22E-09	0.00E+00	8.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	761987.01	4069709.79	4.67E-07	4.00E-07	1.62E-08	0.00E+00	8.83E-07	7.11E-08	6.17E-08	2.46E-09	0.00E+00	1.35E-07	3.61E-08	2.69E-08	8.90E-10	0.00E+00	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	761962.24	4069708.61	3.37E-07	2.89E-07	1.17E-08	0.00E+00	6.37E-07	5.13E-08	4.45E-08	1.77E-09	0.00E+00	9.76E-08	2.60E-08	1.94E-08	6.42E-10	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	761937.46	4069707.44	2.47E-07	2.12E-07	8.56E-09	0.00E+00	4.67E-07	3.76E-08	3.26E-08	1.30E-09	0.00E+00	7.15E-08	1.91E-08	1.42E-08	4.70E-10	0.00E+00	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	761912.69	4069706.26	1.87E-07	1.60E-07	6.49E-09	0.00E+00	3.54E-07	2.85E-08	2.47E-08	9.83E-10	0.00E+00	5.42E-08	1.44E-08	1.08E-08	3.56E-10	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	762329.71	4069709.14	2.83E-06	2.43E-06	9.83E-08	0.00E+00	5.36E-06	4.32E-07	3.75E-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	0.00E+00
2038	762368.69	4069727.14	3.08E-06	2.64E-06	1.07E-07	0.00E+00	5.83E-06	4.70E-07	4.08E-07	1.62E-08	0.00E+00	8.94E-07	2.38E-07	1.78E-07	5.88E-09	0.00E+00	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	762407.67	4069745.15	3.09E-06	2.65E-06	1.07E-07	0.00E+00	5.85E-06	4.71E-07	4.09E-07	1.63E-08	0.00E+00	8.97E-07	2.39E-07	1.78E-07	5.90E-09	0.00E+00	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	762454.37	4069783.18	2.75E-06	2.36E-06	9.55E-08	0.00E+00	5.21E-06	4.19E-07	3.64E-07	1.45E-08	0.00E+00	7.98E-07	2.13E-07	1.59E-07	5.25E-09	0.00E+00	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	762469.81	4069823.25	2.46E-06	2.11E-06	8.53E-08	0.00E+00	4.65E-06	3.75E-07	3.25E-07	1.29E-08	0.00E+00	7.13E-07	1.90E-07	1.42E-07	4.69E-09	0.00E+00	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	762485.25	4069863.32	1.90E-06	1.63E-06	6.59E-08	0.00E+00	3.59E-06	2.89E-07	2.51E-07	9.99E-09	0.00E+00	5.51E-07	1.47E-07	1.10E-07	3.62E-09	0.00E+00	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	762285.45	4069698.96	2.56E-06	2.20E-06	8.90E-08	0.00E+00	4.85E-06	3.91E-07	3.39E-07	1.35E-08	0.00E+00	7.43E-07	1.98E-07	1.48E-07	4.89E-09	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	762260.68	4069697.78	2.45E-06	2.10E-06	8.49E-08	0.00E+00	4.63E-06	3.73E-07	3.24E-07	1.29E-08	0.00E+00	7.09E-07	1.89E-07	1.41E-07	4.66E-09	0.00E+00	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	762235.91	4069696.6	2.30E-06	1.97E-06	7.99E-08	0.00E+00	4.36E-06	3.51E-07	3.04E-07	1.21E-08	0.00E+00	6.67E-07	1.78E-07	1.33E-07	4.39E-09	0.00E+00	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	762211.14	4069695.42	2.13E-06	1.83E-06	7.39E-08	0.00E+00	4.03E-06	3.25E-07	2.82E-07	1.12E-08	0.00E+00	6.17E-07	1.65E-07	1.23E-07	4.06E-09	0.00E+00	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	762186.37	4069694.25	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	0.00E+00
2048	762161.59	4069693.07	1.73E-06	1.48E-06	5.99E-08	0.00E+00	3.27E-06	2.63E-07	2.28E-07	9.08E-09	0.00E+00	5.00E-07	1.33E-07	9.96E-08	3.29E-09	0.00E+00	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	762136.82	4069691.89	1.50E-06	1.29E-06	5.20E-08	0.00E+00	2.84E-06	2.28E-07	1.98E-07	7.89E-09	0.00E+00	4.35E-07	1.16E-07	8.65E-08	2.86E-09	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	762112.05	4069690.71	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
2051	762087.28	4069689.53	1.06E-06	9.08E-07	3.67E-08	0.00E+00	2.00E-06	1.61E-07	1.40E-07	5.57E-09	0.00E+00	3.07E-07	8.18E-08	6.11E-08	2.02E-09	0.00E+00	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	762062.51	4069688.35	8.46E-07	7.25E-07	2.94E-08	0.00E+00	1.60E-06	1.29E-07	1.12E-07	4.45E-09	0.00E+00	2.45E-07	6.54E-08	4.88E-08	1.61E-09	0.00E+00	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	762037.74	4069687.18	6.54E-07	5.61E-07	2.27E-08	0.00E+00	1.24E-06	9.97E-08	8.65E-08	3.44E-09	0.00E+00	1.90E-07	5.06E-08	3.77E-08	1.25E-09	0.00E+00	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	762012.97	4069686	4.93E-07	4.22E-07	1.71E-08	0.00E+00	9.32E-07	7.51E-08	6.51E-08	2.59E-09	0.00E+00	1.43E-07	3.81E-08	2.84E-08	9.39E-10	0.00E+00	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	761988.2	4069684.82	3.66E-07	3.13E-07	1.27E-08	0.00E+00	6.92E-07	5.57E-08	4.83E-08	1.92E-09	0.00E+00	1.06E-07	2.83E-08	2.11E-08	6.97E-10	0.00E+00	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	761963.42	4069683.64	2.72E-07	2.33E-07	9.42E-09	0.00E+00	5.14E-07	4.14E-08	3.59E-08	1.43E-09	0.00E+00	7.87E-08	2.10E-08	1.57E-08	5.18E-10	0.00E+00	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	761938.65	4069682.46	2.05E-07	1.76E-07	7.13E-09	0.00E+00	3.89E-07	3.13E-08	2.72E-08	1.08E-09	0.00E+00	5.95E-08	1.59E-08	1.18E-08	3.92E-10	0.00E+00	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	761913.88	4069681.29	1.60E-07	1.37E-07	5.56E-09	0.00E+00	3.03E-07	2.44E-08	2.12E-08	8.43E-10	0.00E+00	4.64E-08	1.24E-08	9.24E-09	3.05E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	762333.91	4069660.04	2.12E-06	1.81E-06	7.34E-08	0.00E+00	4.00E-06	3.22E-07	2.80E-07	1.11E-08	0.00E+00	6.13E-07	1.63E-07	1.22E-07	4.03E-09	0.00E+00	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	762355.23	4069669.88	2.26E-06	1.94E-06	7.84E-08	0.00E+00	4.28E-06	3.44E-07	2.99E-07	1.19E-08	0.00E+00	6.55E-07	1.75E-07	1.30E-07	4.31E-09	0.00E+00	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	762376.55	4069679.73	2.36E-06	2.03E-06	8.20E-08	0.00E+00	4.47E-06	3.60E-07	3.12E-07	1.24E-08	0.00E+00	6.85E-07	1.83E-07	1.36E-07	4.50E-09	0.00E+00	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	762397.87	4069689.58	2.45E-06	2.10E-06	8.50E-08	0.00E+00	4.63E-06	3.73E-07	3.24E-07	1.29E-08	0.00E+00	7.09E-07	1.89E-07	1.41E-07	4.67E-09	0.00E+00	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	762419.18	4069699.42	2.48E-06	2.13E-06	8.61E-08	0.00E+00	4.70E-06	3.78E-07	3.28E-07	1.31E-08	0.00E+00	7.19E-07	1.92E-07	1.43E-07	4.73E-09	0.00E+00	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	762440.5	4069709.27	2.46E-06	2.11E-06	8.53E-08	0.00E+00	4.65E-06	3.74E-07	3.25E-07	1.29E-08	0.00E+00	7.12E-07	1.90E-07	1.42E-07	4.68E-09	0.00E+00	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	762461.82	4069719.11	2.37E-06	2.03E-06	8.23E-08	0.00E+00	4.48E-06	3.61E-07	3.13E-07	1.25E-08	0.00E+00	6.87E-07	1.83E-07	1.37E-07	4.52E-09	0.00E+00	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	762491.58	4069750.87	2.19E-06	1.87E-06	7.59E-08	0.00E+00	4.14E-06	3.33E-07	2.89E-07	1.15E-08	0.00E+00	6.34E-07	1.69E-07	1.26E-07	4.17E-09	0.00E+00	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	762500.02	4069772.78	2.09E-06	1.79E-06	7.25E-08	0.00E+00	3.95E-06	3.18E-07	2.76E-07	1.10E-08	0.00E+00	6.06E-07	1.61E-07	1.21E-07	3.98E-09	0.00E+00	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	762508.47	4069794.69	1.94E-06	1.67E-06	6.74E-08	0.00E+00	3.68E-06	2.96E-07	2.57E-07	1.02E-08	0.00E+00	5.63E-07	1.50E-07	1.12E-07	3.70E-09	0.00E+00	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	762516.91	4069816.6	1.74E-06	1.49E-06	6.03E-08	0.00E+00	3.29E-06	2.65E-07	2.30E-07	9.14E-09	0.00E+00	5.03E-07	1.34E-07	1.00E-07	3.31E-09	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	762525.35	4069838.52	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	1.17E-07	8.70E-08	2.88E-09	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	762533.8	4069860.43	1.28E-06	1.10E-06	4.46E-08	0.00E+00	2.43E-06	1.96E-07	1.70E-07	6.75E-09	0.00E+00	3.72E-07	9.92E-08	7.41E-08	2.45E-09	0.00E+00	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	762542.24	4069882.34	1.09E-06	9.35E-07	3.78E-08	0.00E+00	2.06E-06	1.66E-07	1.44E-07	5.73E-09	0.00E+00	3.16E-07	8.42E-08	6.29E-08	2.08E-09	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	762312.6	4069650.19	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	0.00E+00
2074	762287.83	4069649.01	1.85E-06	1.58E-06	6.41E-08	0.00E+00	3.50E-06	2.82E-07	2.44E-07	9.72E-09	0.00E+00	5.36E-07	1.43E-07	1.07E-07	3.52E-09	0.00E+00	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	762263.05	4069647.84	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
2076	762238.28	4069646.66	1.60E-06	1.37E-06	5.55E-08	0.00E+00	3.03E-06	2.44E-07	2.11E-07	8.41E-09	0.00E+00	4.64E-07	1.24E-07	9.22E-08	3.05E-09	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
2105	762265.43	4069597.89	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	9.56E-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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	762339.05	4069560.33	1.22E-06	1.04E-06	4.22E-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	7.01E-08	2.32E-09	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	762360.76	4069570.36	1.34E-06	1.15E-06	4.67E-08	0.00E+00	2.54E-06	2.05E-07	1.78E-07	7.07E-09	0.00E+00	3.90E-07	1.04E-07	7.75E-08	2.56E-09	0.00E+00	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	762382.46	4069580.38	1.46E-06	1.26E-06	5.08E-08	0.00E+00	2.77E-06	2.23E-07	1.94E-07	7.70E-09	0.00E+00	4.24E-07	1.13E-07	8.45E-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
2123	762404.17	4069590.41	1.57E-06	1.35E-06	5.45E-08	0.00E+00	2.97E-06	2.39E-07	2.07E-07	8.26E-09	0.00E+00	4.55E-07	1.21E-07	9.05E-08	2.99E-09	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	762425.87	4069600.43	1.64E-06	1.41E-06	5.70E-08	0.00E+00	3.11E-06	2.50E-07	2.17E-07	8.64E-09	0.00E+00	4.76E-07	1.27E-07	9.47E-08	3.13E-09	0.00E+00	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	762447.58	4069610.46	1.69E-06	1.45E-06	5.88E-08	0.00E+00	3.20E-06	2.58E-07	2.24E-07	8.91E-09	0.00E+00	4.91E-07	1.31E-07	9.77E-08	3.23E-09	0.00E+00	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	762469.28	4069620.48	1.74E-06	1.49E-06	6.03E-08	0.00E+00	3.28E-06	2.64E-07	2.29E-07	9.13E-09	0.00E+00	5.03E-07	1.34E-07	1.00E-07	3.31E-09	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	762490.99	4069630.51	1.75E-06	1.50E-06	6.07E-08	0.00E+00	3.31E-06	2.66E-07	2.31E-07	9.20E-09	0.00E+00	5.07E-07	1.35E-07	1.01E-07	3.33E-09	0.00E+00	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	762512.69	4069640.53	1.72E-06	1.48E-06	5.97E-08	0.00E+00	3.26E-06	2.62E-07	2.28E-07	9.05E-09	0.00E+00	4.99E-07	1.33E-07	9.93E-08	3.28E-09	0.00E+00	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	762534.4	4069650.56	1.66E-06	1.42E-06	5.75E-08	0.00E+00	3.14E-06	2.52E-07	2.19E-07	8.72E-09	0.00E+00	4.80E-07	1.28E-07	9.56E-08	3.16E-09	0.00E+00	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	762564.7	4069682.89	1.51E-06	1.30E-06	5.25E-08	0.00E+00	2.86E-06	2.31E-07	2.00E-07	7.96E-09	0.00E+00	4.39E-07	1.17E-07	8.73E-08	2.89E-09	0.00E+00	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	762573.3	4069705.2	1.45E-06	1.24E-06	5.02E-08	0.00E+00	2.74E-06	2.20E-07	1.91E-07	7.61E-09	0.00E+00	4.19E-07	1.12E-07	8.34E-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
2132	762581.89	4069727.51	1.37E-06	1.17E-06	4.75E-08	0.00E+00	2.59E-06	2.09E-07	1.81E-07	7.21E-09	0.00E+00	3.97E-07	1.06E-07	7.90E-08	2.61E-09	0.00E+00	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	762590.49	4069749.82	1.27E-06	1.09E-06	4.42E-08	0.00E+00	2.41E-06	1.94E-07	1.68E-07	6.70E-09	0.00E+00	3.69E-07	9.84E-08	7.34E-08	2.43E-09	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	762599.09	4069772.13	1.16E-06	9.90E-07	4.01E-08	0.00E+00	2.19E-06	1.76E-07	1.53E-07	6.08E-09	0.00E+00	3.35E-07	8.93E-08	6.66E-08	2.20E-09	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	762607.68	4069794.44	1.03E-06	8.85E-07	3.58E-08	0.00E+00	1.95E-06	1.57E-07	1.36E-07	5.43E-09	0.00E+00	2.99E-07	7.97E-08	5.95E-08	1.97E-09	0.00E+00	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	762616.28	4069816.75	9.02E-07	7.74E-07	3.13E-08	0.00E+00	1.71E-06	1.37E-07	1.19E-07	4.75E-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	0.00E+00
2137	762624.88	4069839.06	7.78E-07	6.67E-07	2.70E-08	0.00E+00	1.47E-06	1.19E-07	1.03E-07	4.10E-09	0.00E+00	2.26E-07	6.02E-08	4.49E-08	1.48E-09	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	762633.47	4069861.37	6.62E-07	5.68E-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
2139	762642.07	4069883.67	5.63E-07	4.83E-07	1.95E-08	0.00E+00	1.07E-06	8.58E-08	7.45E-08	2.96E-09	0.00E+00	1.63E-07	4.35E-08	3.25E-08	1.07E-09	0.00E+00	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	762317.35	4069550.31	1.08E-06	9.22E-07	3.73E-08	0.00E+00	2.04E-06	1.64E-07	1.42E-07	5.66E-09	0.00E+00	3.12E-07	8.31E-08	6.21E-08	2.05E-09	0.00E+00	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	762292.58	4069549.13	9.78E-07	8.39E-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	7.56E-08	5.64E-08	1.87E-09	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	762267.8	4069547.95	8.86E-07	7.60E-07	3.08E-08	0.00E+00	1.68E-06	1.35E-07	1.17E-07	4.66E-09	0.00E+00	2.57E-07	6.85E-08	5.11E-08	1.69E-09	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	762243.03	4069546.77	7.93E-07	6.80E-07	2.75E-08	0.00E+00	1.50E-06	1.21E-07	1.05E-07	4.17E-09	0.00E+00	2.30E-07	6.13E-08	4.58E-08	1.51E-09	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	762218.26	4069545.59	7.06E-07	6.05E-07	2.45E-08	0.00E+00	1.34E-06	1.08E-07	9.34E-08	3.71E-09	0.00E+00	2.05E-07	5.46E-08	4.07E-08	1.35E-09	0.00E+00	9.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	762193.49	4069544.41	6.12E-07	5.24E-07	2.12E-08	0.00E+00	1.16E-06	9.32E-08	8.08E-08	3.22E-09	0.00E+00	1.77E-07	4.73E-08	3.53E-08	1.17E-09	0.00E+00	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	762168.72	4069543.24	5.22E-07	4.47E-07	1.81E-08	0.00E+00	9.87E-07	7.95E-08	6.90E-08	2.74E-09	0.00E+00	1.51E-07	4.03E-08	3.01E-08	9.94E-10	0.00E+00	7.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	762143.95	4069542.06	4.38E-07	3.76E-07	1.52E-08	0.00E+00	8.29E-07	6.68E-08	5.79E-08	2.31E-09	0.00E+00	1.27E-07	3.39E-08	2.53E-08	8.35E-10	0.00E+00	6.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	762119.18	4069540.88	3.64E-07	3.12E-07	1.26E-08	0.00E+00	6.88E-07	5.54E-08	4.81E-08	1.91E-09	0.00E+00	1.05E-07	2.81E-08	2.10E-08	6.93E-10	0.00E+00	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	762094.41	4069539.7	2.99E-07	2.56E-07	1.04E-08	0.00E+00	5.65E-07	4.55E-08	3.95E-08	1.57E-09	0.00E+00	8.65E-08	2.31E-08	1.72E-08	5.69E-10	0.00E+00	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	762069.63	4069538.52	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	7.06E-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	0.00E+00
2151	762044.86	4069537.35	1.99E-07	1.71E-07	6.90E-09	0.00E+00	3.76E-07	3.03E-08	2.63E-08	1.05E-09	0.00E+00	5.76E-08	1.54E-08	1.15E-08	3.79E-10	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	762020.09	4069536.17	1.63E-07	1.40E-07	5.66E-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	9.40E-09	3.11E-10	0.00E+00	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	761995.32	4069534.99	1.35E-07	1.15E-07	4.67E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.08E-10	0.00E+00	3.90E-08	1.04E-08	7.76E-09	2.56E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	761970.55	4069533.81	1.12E-07	9.62E-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	8.67E-09	6.47E-09	2.14E-10	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	761945.78	4069532.63	9.47E-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	2.75E-08	7.32E-09	5.46E-09	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	761921.01	4069531.46	8.13E-08	6.97E-08	2.82E-09	0.00E+00	1.54E-07	1.24E-08	1.08E-08	4.28E-10	0.00E+00	2.36E-08	6.29E-09	4.69E-09	1.55E-10	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	762340.71	4069510.06	9.21E-07	7.90E-07	3.20E-08	0.00E+00	1.74E-06	1.40E-07	1.22E-07	4.85E-09	0.00E+00	2.67E-07	7.12E-08	5.31E-08	1.76E-09	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	762361.7	4069519.75	1.03E-06	8.81E-07	3.57E-08	0.00E+00	1.94E-06	1.57E-07	1.36E-07	5.40E-09	0.00E+00	2.98E-07	7.94E-08	5.93E-08	1.96E-09	0.00E+00	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	762382.69	4069529.45	1.13E-06	9.70E-07	3.93E-08	0.00E+00	2.14E-06	1.72E-07	1.50E-07	5.95E-09	0.00E+00	3.28E-07	8.74E-08	6.52E-08	2.16E-09	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	762403.68	4069539.14	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	9.49E-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	0.00E+00
2161	762424.67	4069548.83	1.31E-06	1.12E-06	4.53E-08	0.00E+00	2.47E-06	1.99E-07	1.73E-07	6.87E-09	0.00E+00	3.79E-07	1.01E-07	7.54E-08	2.49E-09	0.00E+00	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	762445.66	4069558.53	1.38E-06	1.18E-06	4.77E-08	0.00E+00	2.60E-06	2.10E-07	1.82E-07	7.24E-09	0.00E+00	3.99E-07	1.06E-07	7.93E-08	2.62E-09	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	762466.65	4069568.22	1.44E-06	1.23E-06	5.00E-08	0.00E+00	2.72E-06	2.19E-07	1.90E-07	7.57E-09	0.00E+00	4.17E-07	1.11E-07	8.30E-08	2.74E-09	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	762487.64	4069577.92	1.49E-06	1.28E-06	5.17E-08	0.00E+00	2.82E-06	2.27E-07	1.97E-07	7.83E-09	0.00E+00	4.32E-07	1.15E-07	8.59E-08	2.84E-09	0.00E+00	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	762508.63	4069587.61	1.51E-06	1.29E-06	5.24E-08	0.00E+00	2.86E-06	2.30E-07	2.00E-07	7.94E-09	0.00E+00	4.37E-07	1.17E-07	8.71E-08	2.88E-09	0.00E+00	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	762529.62	4069597.31	1.50E-06	1.29E-06	5.21E-08	0.00E+00	2.84E-06	2.29E-07	1.99E-07	7.90E-09	0.00E+00	4.35E-07	1.16E-07	8.66E-08	2.86E-09	0.00E+00	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	762550.61	4069607	1.47E-06	1.26E-06	5.10E-08	0.00E+00	2.78E-06	2.24E-07	1.94E-07	7.73E-09	0.00E+00	4.26E-07	1.14E-07	8.48E-08	2.80E-09	0.00E+00	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	762571.6	4069616.7	1.42E-06	1.21E-06	4.91E-08	0.00E+00	2.68E-06	2.16E-07	1.87E-07	7.45E-09	0.00E+00	4.10E-07	1.09E-07	8.16E-08	2.70E-09	0.00E+00	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	762600.9	4069647.96	1.32E-06	1.13E-06	4.57E-08	0.00E+00	2.49E-06	2.01E-07	1.74E-07	6.93E-09	0.00E+00	3.82E-07	1.02E-07	7.60E-08	2.51E-09	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	762609.21	4069669.54	1.27E-06	1.09E-06	4.41E-08	0.00E+00	2.41E-06	1.94E-07	1.68E-07	6.69E-09	0.00E+00	3.69E-07	9.83E-08	7.34E-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
2171	762617.53	4069691.11	1.21E-06	1.04E-06	4.20E-08	0.00E+00	2.29E-06	1.84E-07	1.60E-07	6.36E-09	0.00E+00	3.50E-07	9.34E-08	6.97E-08	2.30E-09	0.00E+00	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	762625.84	4069712.69	1.13E-06	9.68E-07	3.92E-08	0.00E+00	2.14E-06	1.72E-07	1.49E-07	5.94E-09	0.00E+00	3.27E-07	8.73E-08	6.51E-08	2.15E-09	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	762634.15	4069734.26	1.04E-06	8.90E-07	3.60E-08	0.00E+00	1.96E-06	1.58E-07	1.37E-07	5.46E-09	0.00E+00	3.01E-07	8.02E-08	5.98E-08	1.98E-09	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	762642.47	4069755.83	9.35E-07	8.02E-07	3.24E-08	0.00E+00	1.77E-06	1.42E-07	1.24E-07	4.92E-09	0.00E+00	2.71E-07	7.23E-08	5.39E-08	1.78E-09	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	762650.78	4069777.41	8.34E-07	7.15E-07	2.89E-08	0.00E+00	1.58E-06	1.27E-07	1.10E-07	4.39E-09	0.00E+00	2.42E-07	6.44E-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	0.00E+00
2176	762659.09	4069798.98	7.42E-07	6.37E-07	2.58E-08	0.00E+00	1.40E-06	1.13E-07	9.82E-08	3.91E-09	0.00E+00	2.15E-07	5.74E-08	4.28E-08	1.42E-09	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	762667.41	4069820.56	6.53E-07	5.60E-07	2.27E-08	0.00E+00	1.24E-06	9.96E-08	8.64E-08	3.44E-09	0.00E+00	1.89E-07	5.05E-08	3.77E-08	1.25E-09	0.00E+00	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	762675.72	4069842.13	5.70E-07	4.89E-07	1.98E-08	0.00E+00	1.08E-06	8.68E-08	7.53E-08	3.00E-09	0.00E+00	1.65E-07	4.40E-08	3.29E-08	1.09E-09	0.00E+00	7.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	762684.03	4069863.7	4.94E-07	4.24E-07	1.71E-08	0.00E+00	9.35E-07	7.53E-08	6.53E-08	2.60E-09	0.00E+00	1.43E-07	3.82E-08	2.85E-08	9.42E-10	0.00E+00	6.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	762692.35	4069885.28	4.25E-07	3.64E-07	1.47E-08	0.00E+00	8.04E-07	6.47E-08	5.62E-08	2.24E-09	0.00E+00	1.23E-07	3.28E-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	0.00E+00
2181	762319.72	4069500.36	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	0.00E+00
2182	762294.95	4069499.18	7.34E-07	6.29E-07	2.55E-08	0.00E+00	1.39E-06	1.12E-07	9.70E-08	3.86E-09	0.00E+00	2.13E-07	5.67E-08	4.23E-08	1.40E-09	0.00E+00	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	762270.18	4069498.01	6.51E-07	5.59E-07	2.26E-08	0.00E+00	1.23E-06	9.93E-08	8.61E-08	3.43E-09	0.00E+00	1.89E-07	5.03E-08	3.76E-08	1.24E-09	0.00E+00	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2184	762245.41	4069496.83	5.74E-07	4.93E-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	0.00E+00
2185	762220.64	4069495.65	5.03E-07	4.31E-07	1.75E-08	0.00E+00	9.52E-07	7.67E-08	6.65E-08	2.65E-09	0.00E+00	1.46E-07	3.89E-08	2.90E-08	9.59E-10	0.00E+00	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	762195.87	4069494.47	4.35E-07	3.73E-07	1.51E-08	0.00E+00	8.24E-07	6.63E-08	5.75E-08	2.29E-09	0.00E+00	1.26E-07	3.36E-08	2.51E-08	8.30E-10	0.00E+00	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	762171.1	4069493.29	3.73E-07	3.20E-07	1.30E-08	0.00E+00	7.06E-07	5.69E-08	4.94E-08	1.96E-09	0.00E+00	1.08E-07	2.89E-08	2.15E-08	7.12E-10	0.00E+00	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	762146.32	4069492.11	3.15E-07	2.70E-07	1.09E-08	0.00E+00	5.97E-07	4.80E-08	4.17E-08	1.66E-09	0.00E+00	9.14E-08	2.44E-08	1.82E-08	6.01E-10	0.00E+00	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	762121.55	4069490.94	2.64E-07	2.26E-07	9.15E-09	0.00E+00	4.99E-07	4.02E-08	3.49E-08	1.39E-09	0.00E+00	7.64E-08	2.04E-08	1.52E-08	5.03E-10	0.00E+00	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	762096.78	4069489.76	2.19E-07	1.88E-07	7.62E-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	0.00E+00
2191	762072.01	4069488.58	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	5.28E-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
2192	762047.24	4069487.4	1.52E-07	1.30E-07	5.27E-09	0.00E+00	2.87E-07	2.31E-08	2.01E-08	7.98E-10	0.00E+00	4.40E-08	1.17E-08	8.75E-09	2.89E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	762022.47	4069486.22	1.27E-07	1.09E-07	4.41E-09	0.00E+00	2.40E-07	1.94E-08	1.68E-08	6.68E-10	0.00E+00	3.68E-08	9.82E-09	7.33E-09	2.42E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	761997.7	4069485.05	1.07E-07	9.19E-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	8.28E-09	6.18E-09	2.04E-10	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	761972.93	4069483.87	9.13E-08	7.83E-08	3.17E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.80E-10	0.00E+00	2.65E-08	7.05E-09	5.26E-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
2196	761948.15	4069482.69	7.86E-08	6.74E-08	2.73E-09	0.00E+00	1.49E-07	1.20E-08	1.04E-08	4.14E-10	0.00E+00	2.28E-08	6.08E-09	4.54E-09	1.50E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	761923.38	4069481.51	6.88E-08	5.90E-08	2.39E-09	0.00E+00	1.30E-07	1.05E-08	9.09E-09	3.62E-10	0.00E+00	1.99E-08	5.31E-09	3.97E-09	1.31E-10	0.00E+00	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	762344.02	4069460.55	7.07E-07	6.06E-07	2.45E-08	0.00E+00	1.34E-06	1.08E-07	9.34E-08	3.72E-09	0.00E+00	2.05E-07	5.46E-08	4.08E-08	1.35E-09	0.00E+00	9.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	762365.95	4069470.67	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	0.00E+00
2200	762387.88	4069480.8	8.87E-07	7.61E-07	3.08E-08	0.00E+00	1.68E-06	1.35E-07	1.17E-07	4.67E-09	0.00E+00	2.57E-07	6.86E-08	5.12E-08	1.69E-09	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	762409.8	4069490.93	9.76E-07	8.37E-07	3.39E-08	0.00E+00	1.85E-06	1.49E-07	1.29E-07	5.14E-09	0.00E+00	2.83E-07	7.55E-08	5.63E-08	1.86E-09	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	762431.73	4069501.05	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	2.01E-09	0.00E+00	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	762453.66	4069511.18	1.13E-06	9.67E-07	3.91E-08	0.00E+00	2.13E-06	1.72E-07	1.49E-07	5.93E-09	0.00E+00	3.27E-07	8.72E-08	6.51E-08	2.15E-09	0.00E+00	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2204	762475.58	4069521.31	1.20E-06	1.03E-06	4.15E-08	0.00E+00	2.26E-06	1.82E-07	1.58E-07	6.29E-09	0.00E+00	3.47E-07	9.25E-08	6.90E-08	2.28E-09	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	762497.51	4069531.44	1.26E-06	1.08E-06	4.36E-08	0.00E+00	2.38E-06	1.91E-07	1.66E-07	6.61E-09	0.00E+00	3.64E-07	9.71E-08	7.25E-08	2.39E-09	0.00E+00	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	762519.44	4069541.56	1.30E-06	1.11E-06	4.50E-08	0.00E+00	2.45E-06	1.98E-07	1.72E-07	6.82E-09	0.00E+00	3.76E-07	1.00E-07	7.48E-08	2.47E-09	0.00E+00	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2250	762537.65	4069498.93	1.12E-06	9.62E-07	3.90E-08	0.00E+00	2.12E-06	1.71E-07	1.48E-07	5.90E-09	0.00E+00	3.25E-07	8.68E-08	6.47E-08	2.14E-09	0.00E+00	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2251	762558.97	4069508.78	1.14E-06	9.81E-07	3.97E-08	0.00E+00	2.16E-06	1.74E-07	1.51E-07	6.02E-09	0.00E+00	3.31E-07	8.84E-08	6.60E-08	2.18E-09	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2252	762580.28	4069518.63	1.15E-06	9.85E-07	3.99E-08	0.00E+00	2.17E-06	1.75E-07	1.52E-07	6.04E-09	0.00E+00	3.33E-07	8.88E-08	6.63E-08	2.19E-09	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2253	762601.6	4069528.47	1.14E-06	9.74E-07	3.94E-08	0.00E+00	2.15E-06	1.73E-07	1.50E-07	5.98E-09	0.00E+00	3.29E-07	8.78E-08	6.55E-08	2.17E-09	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2254	762622.92	4069538.32	1.11E-06	9.53E-07	3.86E-08	0.00E+00	2.10E-06	1.69E-07	1.47E-07	5.85E-09	0.00E+00	3.22E-07	8.59E-08	6.41E-08	2.12E-09	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2255	762644.24	4069548.16	1.08E-06	9.22E-07	3.73E-08	0.00E+00	2.04E-06	1.64E-07	1.42E-07	5.66E-09	0.00E+00	3.12E-07	8.31E-08	6.20E-08	2.05E-09	0.00E+00	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2256	762674	4069579.92	1.01E-06	8.67E-07	3.51E-08	0.00E+00	1.91E-06	1.54E-07	1.34E-07	5.32E-09	0.00E+00	2.93E-07	7.82E-08	5.83E-08	1.93E-09	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2257	762682.44	4069601.83	9.82E-07	8.42E-07	3.41E-08	0.00E+00	1.86E-06	1.50E-07	1.30E-07	5.17E-09	0.00E+00	2.85E-07	7.59E-08	5.67E-08	1.87E-09	0.00E+00	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2258	762690.88	4069623.74	9.41E-07	8.07E-07	3.27E-08	0.00E+00	1.78E-06	1.43E-07	1.24E-07	4.95E-09	0.00E+00	2.73E-07	7.27E-08	5.43E-08	1.79E-09	0.00E+00	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2259	762699.33	4069645.65	8.90E-07	7.63E-07	3.09E-08	0.00E+00	1.68E-06	1.36E-07	1.18E-07	4.68E-09	0.00E+00	2.58E-07	6.88E-08	5.13E-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
2260	762707.77	4069667.57	8.29E-07	7.11E-07	2.88E-08	0.00E+00	1.57E-06	1.26E-07	1.10E-07	4.36E-09	0.00E+00	2.40E-07	6.41E-08	4.78E-08	1.58E-09	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2261	762716.21	4069689.48	7.64E-07	6.55E-07	2.65E-08	0.00E+00	1.44E-06	1.16E-07	1.01E-07	4.02E-09	0.00E+00	2.21E-07	5.90E-08	4.40E-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
2262	762724.66	4069711.39	6.94E-07	5.95E-07	2.41E-08	0.00E+00	1.31E-06	1.06E-07	9.17E-08	3.65E-09	0.00E+00	2.01E-07	5.36E-08	4.00E-08	1.32E-09	0.00E+00	9.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2263	762733.1	4069733.3	6.26E-07	5.37E-07	2.17E-08	0.00E+00	1.18E-06	9.54E-08	8.27E-08	3.29E-09	0.00E+00	1.81E-07	4.84E-08	3.61E-08	1.19E-09	0.00E+00	8.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2264	762741.54	4069755.21	5.61E-07	4.81E-07	1.95E-08	0.00E+00	1.06E-06	8.54E-08	7.41E-08	2.95E-09	0.00E+00	1.62E-07	4.33E-08	3.23E-08	1.07E-09	0.00E+00	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2265	762749.99	4069777.12	4.98E-07	4.27E-07	1.73E-08	0.00E+00	9.43E-07	7.60E-08	6.59E-08	2.62E-09	0.00E+00	1.44E-07	3.85E-08	2.88E-08	9.50E-10	0.00E+00	6.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2266	762758.43	4069799.03	4.42E-07	3.79E-07	1.53E-08	0.00E+00	8.35E-07	6.73E-08	5.84E-08	2.32E-09	0.00E+00	1.28E-07	3.41E-08	2.55E-08	8.42E-10	0.00E+00	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2267	762766.87	4069820.94	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	0.00E+00
2268	762775.32	4069842.85	3.43E-07	2.94E-07	1.19E-08	0.00E+00	6.49E-07	5.22E-08	4.53E-08	1.80E-09	0.00E+00	9.94E-08	2.65E-08	1.98E-08	6.54E-10	0.00E+00	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2269	762783.76	4069864.77	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	0.00E+00
2270	762792.2	4069886.68	2.71E-07	2.32E-07	9.40E-09	0.00E+00	5.13E-07	4.13E-08	3.58E-08	1.43E-09	0.00E+00	7.85E-08	2.09E-08	1.56E-08	5.16E-10	0.00E+00	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2271	762324.47	4069400.47	4.77E-07	4.09E-07	1.66E-08	0.00E+00	9.03E-07	7.27E-08	6.31E-08	2.51E-09	0.00E+00	1.38E-07	3.69E-08	2.75E-08	9.10E-10	0.00E+00	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2272	762299.7	4069399.3	4.27E-07	3.66E-07	1.48E-08	0.00E+00	8.07E-07	6.50E-08	5.64E-08	2.24E-09	0.00E+00	1.24E-07	3.30E-08	2.46E-08	8.13E-10	0.00E+00	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2273	762274.93	4069398.12	3.78E-07	3.24E-07	1.31E-08	0.00E+00	7.14E-07	5.75E-08	4.99E-08	1.99E-09	0.00E+00	1.09E-07	2.92E-08	2.18E-08	7.20E-10	0.00E+00	5.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2274	762250.16	4069396.94	3.28E-07	2.81E-07	1.14E-08	0.00E+00	6.20E-07	5.00E-08	4.33E-08	1.72E-09	0.00E+00	9.50E-08	2.53E-08	1.89E-08	6.25E-10	0.00E+00	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2275	762225.39	4069395.76	2.85E-07	2.44E-07	9.89E-09	0.00E+00	5.39E-07	4.34E-08	3.77E-08	1.50E-09	0.00E+00	8.26E-08	2.20E-08	1.64E-08	5.43E-10	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2276	762200.62	4069394.58	2.48E-07	2.12E-07	8.59E-09	0.00E+00	4.69E-07	3.77E-08	3.27E-08	1.30E-09	0.00E+00	7.18E-08	1.91E-08	1.43E-08	4.72E-10	0.00E+00	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2277	762175.85	4069393.41	2.14E-07	1.84E-07	7.44E-09	0.00E+00	4.06E-07	3.27E-08	2.84E-08	1.13E-09	0.00E+00	6.22E-08	1.66E-08	1.24E-08	4.09E-10	0.00E+00	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2278	762151.07	4069392.23	1.84E-07	1.58E-07	6.39E-09	0.00E+00	3.48E-07	2.80E-08	2.43E-08	9.68E-10	0.00E+00	5.33E-08	1.42E-08	1.06E-08	3.51E-10	0.00E+00	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2279	762126.3	4069391.05	1.58E-07	1.35E-07	5.47E-09	0.00E+00	2.98E-07	2.40E-08	2.08E-08	8.29E-10	0.00E+00	4.57E-08	1.22E-08	9.09E-09	3.00E-10	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2280	762101.53	4069389.87	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
2281	762076.76	4069388.69	1.16E-07	9.90E-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	8.93E-09	6.66E-09	2.20E-10	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2282	762051.99	4069387.52	9.83E-08	8.43E-08	3.41E-09	0.00E+00	1.86E-07	1.50E-08	1.30E-08	5.17E-10	0.00E+00	2.85E-08	7.60E-09	5.67E-09	1.87E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2283	762027.22	4069386.34	8.44E-08	7.24E-08	2.93E-09	0.00E+00	1.60E-07	1.29E-08	1.12E-08	4.44E-10	0.00E+00	2.45E-08	6.52E-09	4.87E-09	1.61E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2284	762002.45	4069385.16	7.33E-08	6.28E-08	2.54E-09	0.00E+00	1.39E-07	1.12E-08	9.69E-09	3.86E-10	0.00E+00	2.12E-08	5.67E-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	0.00E+00
2285	761977.68	4069383.98	6.52E-08	5.59E-08	2.26E-09	0.00E+00	1.23E-07	9.94E-09	8.62E-09	3.43E-10	0.00E+00	1.89E-08	5.04E-09	3.76E-09	1.24E-10	0.00E+00	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2286	761952.9	4069382.8	5.76E-08	4.94E-08	2.00E-09	0.00E+00	1.09E-07	8.78E-09	7.62E-09	3.03E-10	0.00E+00	1.67E-08	4.45E-09	3.32E-09	1.10E-10	0.00E+00	7.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2287	761928.13	4069381.62	5.16E-08	4.42E-08	1.79E-09	0.00E+00	9.76E-08	7.86E-09	6.82E-09	2.71E-10	0.00E+00	1.49E-08	3.99E-09	2.97E-09	9.83E-11	0.00E+00	7.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2288	762348.92	4069360.72	4.22E-07	3.62E-07	1.47E-08	0.00E+00	7.99E-07	6.44E-08	5.58E-08	2.22E-09	0.00E+00	1.22E-07	3.26E-08	2.44E-08	8.05E-10	0.00E+00	5.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2289	762370.99	4069370.92	4.82E-07	4.13E-07	1.67E-08	0.00E+00	9.12E-07	7.34E-08	6.37E-08	2.54E-09	0.00E+00	1.40E-07	3.72E-08	2.78E-08	9.19E-10	0.00E+00	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2290	762393.06	4069381.11	5.48E-07	4.70E-07	1.90E-08	0.00E+00	1.04E-06	8.35E-08	7.24E-08	2.88E-09	0.00E+00	1.59E-07	4.23E-08	3.16E-08	1.04E-09	0.00E+00	7.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2291	762415.13	4069391.3	6.18E-07	5.30E-07	2.14E-08	0.00E+00	1.17E-06	9.41E-08	8.17E-08	3.25E-09	0.00E+00	1.79E-07	4.77E-08	3.56E-08	1.18E-09	0.00E+00	8.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2292	762437.2	4069401.5	6.83E-07	5.86E-07	2.37E-08	0.00E+00	1.29E-06	1.04E-07	9.03E-08	3.59E-09	0.00E+00	1.98E-07	5.28E-08	3.94E-08	1.30E-09	0.00E+00	9.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2293	762459.27	4069411.69	7.48E-07	6.42E-07	2.60E-08	0.00E+00	1.42E-06	1.14E-07	9.89E-08	3.94E-09	0.00E+00	2.17E-07	5.78E-08	4.32E-08	1.43E-09	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2294	762481.34	4069421.89	8.15E-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	0.00E+00
2295	762503.41	4069432.08	8.76E-07	7.51E-07	3.04E-08	0.00E+00	1.66E-06	1.33E-07	1.16E-07	4.61E-09	0.00E+00	2.54E-07	6.77E-08	5.05E-08	1.67E-09	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2296	762525.48	4069442.27	9.27E-07	7.94E-07	3.22E-08	0.00E+00	1.75E-06	1.41E-07	1.22E-07	4.87E-09	0.00E+00	2.69E-07	7.16E-08	5.34E-08	1.77E-09	0.00E+00	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2297	762547.55	4069452.47	9.66E-07	8.29E-07	3.35E-08	0.00E+00	1.83E-06	1.47E-07	1.28E-07	5.08E-09	0.00E+00	2.80E-07	7.47E-08	5.57E-08	1.84E-09	0.00E+00	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2298	762569.62	4069462.66	9.97E-07	8.55E-07	3.46E-08	0.00E+00	1.89E-06	1.52E-07	1.32E-07	5.24E-09	0.00E+00	2.89E-07	7.71E-08	5.75E-08	1.90E-09	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2299	762591.69	4069472.85	1.02E-06	8.72E-07	3.53E-08	0.00E+00	1.92E-06	1.55E-07	1.34E-07	5.35E-09	0.00E+00	2.95E-07	7.86E-08	5.87E-08	1.94E-09	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2300	762613.76	4069483.05	1.02E-06	8.76E-07	3.55E-08	0.00E+00	1.93E-06	1.56E-07	1.35E-07	5.38E-09	0.00E+00	2.96E-07	7.90E-08	5.89E-08	1.95E-09	0.00E+00	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2301	762635.83	4069493.24	1.01E-06	8.67E-07	3.51E-08	0.00E+00	1.91E-06	1.54E-07	1.34E-07	5.32E-09	0.00E+00	2.93E-07	7.82E-08	5.84E-08	1.93E-09	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2302	762657.9	4069503.43	9.87E-07	8.46E-07	3.42E-08	0.00E+00	1.87E-06	1.50E-07	1.30E-07	5.19E-09	0.00E+00	2.86E-07	7.63E-08	5.69E-08	1.88E-09	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2303	762679.97	4069513.63	9.57E-07	8.21E-07	3.32E-08	0.00E+00	1.81E-06	1.46E-07	1.27E-07	5.04E-09	0.00E+00	2.77E-07	7.40E-08	5.52E-08	1.82E-09	0.00E+00	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2304	762710.78	4069546.5	9.03E-07	7.74E-07	3.13E-08	0.00E+00	1.71E-06	1.38E-07	1.19E-07	4.75E-09	0.00E+00	2.62E-07	6.98E-08	5.21E-08	1.72E-09	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2305	762719.52	4069569.19	8.78E-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	0.00E+00
2306	762728.26	4069591.87	8.39E-07	7.20E-07	2.91E-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	4.84E-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
2307	762737	4069614.56	7.94E-07	6.81E-07	2.76E-08	0.00E+00	1.50E-06	1.21E-07	1.05E-07	4.18E-09	0.00E+00	2.30E-07	6.14E-08	4.58E-08	1.51E-09	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2308	762745.74	4069637.24	7.44E-07	6.38E-07	2.58E-08	0.00E+00	1.41E-06	1.13E-07	9.84E-08	3.92E-09	0.00E+00	2.16E-07	5.75E-08	4.29E-08	1.42E-09	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2309	762754.48	4069659.93	6.90E-07	5.91E-07	2.39E-08	0.00E+00	1.31E-06	1.05E-07	9.12E-08	3.63E-09	0.00E+00	2.00E-07	5.33E-08	3.98E-08	1.32E-09	0.00E+00	9.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2310	762763.23	4069682.61	6.33E-07	5.43E-07	2.20E-08	0.00E+00	1.20E-06	9.65E-08	8.37E-08	3.33E-09	0.00E+00	1.84E-07	4.89E-08	3.65E-08	1.21E-09	0.00E+00	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2311	762771.97	4069705.3	5.76E-07	4.94E-07	2.00E-08	0.00E+00	1.09E-06	8.77E-08	7.61E-08	3.03E-09	0.00E+00	1.67E-07	4.45E-08	3.32E-08	1.10E-09	0.00E+00	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2312	762780.71	4069727.98	5.18E-07	4.44E-07	1.80E-08	0.00E+00	9.81E-07	7.90E-08	6.85E-08	2.73E-09	0.00E+00	1.50E-07	4.01E-08	2.99E-08	9.88E-10	0.00E+00	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2313	762789.45	4069750.66	4.64E-07	3.98E-07	1.61E-08	0.00E+00	8.78E-07	7.07E-08	6.13E-08	2.44E-09	0.00E+00	1.34E-07	3.58E-08	2.68E-08	8.84E-10	0.00E+00	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2314	762798.19	4069773.35	4.11E-07	3.53E-07	1.43E-08	0.00E+00	7.78E-07	6.27E-08	5.44E-08	2.16E-09	0.00E+00	1.19E-07	3.18E-08	2.37E-08	7.84E-10	0.00E+00	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2315	762806.93	4069796.03	3.62E-07	3.10E-07	1.26E-08	0.00E+00	6.85E-07	5.51E-08	4.78E-08	1.90E-09	0.00E+00	1.05E-07	2.80E-08	2.09E-08	6.90E-10	0.00E+00	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2316	762815.67	4069818.72	3.21E-07	2.75E-07	1.11E-08	0.00E+00	6.07E-07	4.89E-08	4.24E-08	1.69E-09	0.00E+00	9.30E-08	2.48E-08	1.85E-08	6.12E-10	0.00E+00	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2317	762824.41	4069841.4	2.86E-07	2.45E-07	9.92E-09	0.00E+00	5.41E-07	4.35E-08	3.78E-08	1.50E-09	0.00E+00	8.28E-08	2.21E-08	1.65E-08	5.45E-10	0.00E+00	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2318	762833.15	4069864.09	2.56E-07	2.19E-07	8.88E-09	0.00E+00	4.84E-07	3.90E-08	3.38E-08	1.35E-09	0.00E+00	7.42E-08	1.98E-08	1.48E-08	4.88E-10	0.00E+00	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2319	762841.9	4069886.77	2.28E-07	1.95E-07	7.91E-09	0.00E+00	4.31E-07	3.47E-08	3.01E-08	1.20E-09	0.00E+00	6.61E-08	1.76E-08	1.31E-08	4.35E-10	0.00E+00	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2320	762326.85	4069350.53	3.67E-07	3.14E-07	1.27E-08	0.00E+00	6.94E-07	5.59E-08	4.85E-08	1.93E-09	0.00E+00	1.06E-07	2.83E-08	2.11E-08	6.99E-10	0.00E+00	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2321	762302.08	4069349.35	3.24E-07	2.78E-07	1.13E-08	0.00E+00	6.13E-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	0.00E+00
2322	762277.31	4069348.17	2.86E-07	2.45E-07	9.94E-09	0.00E+00	5.42E-07	4.36E-08	3.78E-08	1.51E-09	0.00E+00	8.30E-08	2.21E-08	1.65E-08	5.46E-10	0.00E+00	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2323	762252.53	4069347	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
2324	762227.76	4069345.82	2.21E-07	1.90E-07	7.69E-09	0.00E+00	4.19E-07	3.37E-08	2.93E-08	1.16E-09	0.00E+00	6.42E-08	1.71E-08	1.28E-08	4.22E-10	0.00E+00	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2325	762202.99	4069344.64	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	5.58E-08	1.49E-08	1.11E-08	3.67E-10	0.00E+00	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2326	762178.22	4069343.46	1.67E-07	1.43E-07	5.81E-09	0.00E+00	3.17E-07	2.55E-08	2.21E-08	8.80E-10	0.00E+00	4.85E-08	1.29E-08	9.65E-09	3.19E-10	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2327	762153.45	4069342.28	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
2328	762128.68	4069341.11	1.28E-07	1.10E-07	4.45E-09	0.00E+00	2.43E-07	1.95E-08	1.69E-08	6.74E-10	0.00E+00	3.72E-08	9.91E-09	7.40E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2329	762103.91	4069339.93	1.11E-07	9.53E-08	3.86E-09	0.00E+00	2.10E-07	1.69E-08	1.47E-08	5.85E-10	0.00E+00	3.22E-08	8.59E-09	6.41E-09	2.12E-10	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2330	762079.14	4069338.75	9.65E-08	8.28E-08	3.35E-09	0.00E+00	1.83E-07	1.47E-08	1.28E-08	5.08E-10	0.00E+00	2.80E-08	7.46E-09	5.57E-09	1.84E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2331	762054.36	4069337.57	8.40E-08	7.20E-08	2.92E-09	0.00E+00	1.59E-07	1.28E-08	1.11E-08	4.42E-10	0.00E+00	2.44E-08	6.49E-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	0.00E+00
2332	762029.59	4069336.39	7.34E-08	6.29E-08	2.55E-09	0.00E+00	1.39E-07	1.12E-08	9.70E-09	3.86E-10	0.00E+00	2.13E-08	5.67E-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	0.00E+00
2333	762004.82	4069335.22	6.40E-08	5.49E-08	2.22E-09	0.00E+00	1.21E-07	9.75E-09	8.46E-09	3.37E-10	0.00E+00	1.85E-08	4.95E-09	3.69E-09	1.22E-10	0.00E+00	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2334	761980.05	4069334.04	5.68E-08	4.87E-08	1.97E-09	0.00E+00	1.08E-07	8.66E-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	7.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2335	761955.28	4069332.86	5.07E-08	4.34E-08	1.76E-09	0.00E+00	9.58E-08	7.72E-09	6.70E-09	2.66E-10	0.00E+00	1.47E-08	3.91E-09	2.92E-09	9.66E-11	0.00E+00	6.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2336	761930.51	4069331.68	4.56E-08	3.91E-08	1.58E-09	0.00E+00	8.63E-08	6.95E-09	6.03E-09	2.40E-10	0.00E+00	1.32E-08	3.53E-09	2.63E-09	8.70E-11	0.00E+00	6.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2337	762350.77	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	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	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	8.33E-10	0.00E+00	5.98E-08	0.00E+00	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	6.49E-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	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	7.22E-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	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	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	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	0.00E+00
2345	762523.1	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	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	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	0.00E+00
2348	762587.73	4069419.98	8.79E-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	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	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	0.00E+00
2351	762652.35	4069449.83	9.13E-07	7.83E-07	3.17E-08	0.00E+00	1.73E-06	1.39E-07	1.21E-07	4.80E-09	0.00E+00	2.65E-07	7.06E-08	5.27E-08	1.74E-09	0.00E+00	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2352	762673.9	4069459.78	9.04E-07	7.75E-07	3.14E-08	0.00E+00	1.71E-06	1.38E-07	1.20E-07	4.76E-09	0.00E+00	2.62E-07	6.99E-08	5.21E-08	1.72E-09	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2353	762695.44	4069469.73	8.85E-07	7.59E-07	3.07E-08	0.00E+00	1.68E-06	1.35E-07	1.17E-07	4.66E-09	0.00E+00	2.57E-07	6.84E-08	5.11E-08	1.69E-09	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2354	762716.98	4069479.68	8.58E-07	7.36E-07	2.98E-08	0.00E+00	1.62E-06	1.31E-07	1.13E-07	4.51E-09	0.00E+00	2.49E-07	6.63E-08	4.95E-08	1.64E-09	0.00E+00	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2355	762747.05	4069511.77	8.11E-07	6.96E-07	2.82E-08	0.00E+00	1.54E-06	1.24E-07	1.07E-07	4.27E-09	0.00E+00	2.35E-07	6.27E-08	4.68E-08	1.55E-09	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2356	762755.59	4069533.91	7.92E-07	6.79E-07	2.75E-08	0.00E+00	1.50E-06	1.21E-07	1.05E-07	4.16E-09	0.00E+00	2.29E-07	6.12E-08	4.57E-08	1.51E-09	0.00E+00	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2357	762764.12	4069556.06	7.64E-07	6.55E-07	2.65E-08	0.00E+00	1.45E-06	1.16E-07	1.01E-07	4.02E-09	0.00E+00	2.21E-07	5.90E-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
2358	762772.65	4069578.2	7.29E-07	6.25E-07	2.53E-08	0.00E+00	1.38E-06	1.11E-07	9.64E-08	3.84E-09	0.00E+00	2.11E-07	5.64E-08	4.21E-08	1.39E-09	0.00E+00	9.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2359	762781.18	4069600.34	6.89E-07	5.91E-07	2.39E-08	0.00E+00	1.30E-06	1.05E-07	9.11E-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	0.00E+00
2360	762789.71	4069622.48	6.44E-07	5.53E-07	2.24E-08	0.00E+00	1.22E-06	9.82E-08	8.52E-08	3.39E-09	0.00E+00	1.87E-07	4.98E-08	3.72E-08	1.23E-09	0.00E+00	8.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2361	762798.25	4069644.62	5.97E-07	5.12E-07	2.07E-08	0.00E+00	1.13E-06	9.10E-08	7.90E-08	3.14E-09	0.00E+00	1.73E-07	4.62E-08	3.44E-08	1.14E-09	0.00E+00	8.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2362	762806.78	4069666.76	5.49E-07	4.71E-07	1.91E-08	0.00E+00	1.04E-06	8.36E-08	7.26E-08	2.89E-09	0.00E+00	1.59E-07	4.24E-08	3.17E-08	1.05E-09	0.00E+00	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2363	762815.31	4069688.91	5.00E-07	4.29E-07	1.74E-08	0.00E+00	9.46E-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
2364	762823.84	4069711.05	4.49E-07	3.85E-07	1.56E-08	0.00E+00	8.49E-07	6.84E-08	5.93E-08	2.36E-09	0.00E+00	1.30E-07	3.47E-08	2.59E-08	8.55E-10	0.00E+00	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2365	762832.37	4069733.19	4.02E-07	3.45E-07	1.40E-08	0.00E+00	7.61E-07	6.12E-08	5.31E-08	2.11E-09	0.00E+00	1.16E-07	3.11E-08	2.32E-08	7.66E-10	0.00E+00	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2366	762840.91	4069755.33	3.60E-07	3.09E-07	1.25E-08	0.00E+00	6.82E-07	5.49E-08	4.77E-08	1.90E-09	0.00E+00	1.04E-07	2.79E-08	2.08E-08	6.87E-10	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2367	762849.44	4069777.47	3.25E-07	2.79E-07	1.13E-08	0.00E+00	6.15E-07	4.95E-08	4.29E-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	0.00E+00
2368	762857.97	4069799.61	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	8.48E-08	2.26E-08	1.69E-08	5.58E-10	0.00E+00	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2369	762866.5	4069821.76	2.64E-07	2.26E-07	9.15E-09	0.00E+00	4.99E-07	4.02E-08	3.49E-08	1.39E-09	0.00E+00	7.64E-08	2.04E-08	1.52E-08	5.03E-10	0.00E+00	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2370	762875.03	4069843.9	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	0.00E+00
2371	762883.57	4069866.04	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	0.00E+00
2372	762892.1	4069888.18	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	0.00E+00
2373	762329.22	4069300.59	2.90E-07	2.48E-07	1.01E-08	0.00E+00	5.48E-07	4.41E-08	3.83E-08	1.52E-09	0.00E+00	8.39E-08	2.24E-08	1.67E-08	5.52E-10	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2374	762304.45	4069299.41	2.57E-07	2.21E-07	8.93E-09	0.00E+00	4.87E-07	3.92E-08	3.40E-08	1.35E-09	0.00E+00	7.46E-08	1.99E-08	1.48E-08	4.91E-10	0.00E+00	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2375	762279.68	4069298.23	2.29E-07	1.96E-07	7.94E-09	0.00E+00	4.33E-07	3.48E-08	3.02E-08	1.20E-09	0.00E+00	6.63E-08	1.77E-08	1.32E-08	4.36E-10	0.00E+00	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2376	762254.91	4069297.05	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	5.89E-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
2377	762230.14	4069295.87	1.79E-07	1.54E-07	6.23E-09	0.00E+00	3.40E-07	2.73E-08	2.37E-08	9.44E-10	0.00E+00	5.20E-08	1.39E-08	1.04E-08	3.42E-10	0.00E+00	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2378	762205.37	4069294.7	1.58E-07	1.35E-07	5.47E-09	0.00E+00	2.98E-07	2.40E-08	2.08E-08	8.29E-10	0.00E+00	4.57E-08	1.22E-08	9.09E-09	3.00E-10	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2379	762180.6	4069293.52	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.83E-08	7.27E-10	0.00E+00	4.00E-08	1.07E-08	7.97E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2380	762155.83	4069292.34	1.22E-07	1.05E-07	4.24E-09	0.00E+00	2.31E-07	1.86E-08	1.62E-08	6.43E-10	0.00E+00	3.54E-08	9.44E-09	7.05E-09	2.33E-10	0.00E+00	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2381	762131.05	4069291.16	1.07E-07	9.17E-08	3.71E-09	0.00E+00	2.02E-07	1.63E-08	1.41E-08	5.63E-10	0.00E+00	3.10E-08	8.27E-09	6.17E-09	2.04E-10	0.00E+00	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2382	762106.28	4069289.98	9.38E-08	8.04E-08	3.26E-09	0.00E+00	1.78E-07	1.43E-08	1.24E-08	4.94E-10	0.00E+00	2.72E-08	7.25E-09	5.41E-09	1.79E-10	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2383	762081.51	4069288.81	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	0.00E+00
2384	762056.74	4069287.63	7.25E-08	6.21E-08	2.52E-09	0.00E+00	1.37E-07	1.10E-08	9.58E-09	3.81E-10	0.00E+00	2.10E-08	5.60E-09	4.18E-09	1.38E-10	0.00E+00	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2385	762031.97	4069286.45	6.39E-08	5.48E-08	2.22E-09	0.00E+00	1.21E-07	9.74E-09	8.45E-09	3.36E-10	0.00E+00	1.85E-08	4.94E-09	3.69E-09	1.22E-10	0.00E+00	8.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2386	762007.2	4069285.27	5.66E-08	4.85E-08	1.96E-09	0.00E+00	1.07E-07	8.62E-09	7.48E-09	2.98E-10	0.00E+00	1.64E-08	4.37E-09	3.26E-09	1.08E-10	0.00E+00	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2387	761982.43	4069284.09	5.02E-08	4.31E-08	1.74E-09	0.00E+00	9.50E-08	7.65E-09	6.64E-09	2.64E-10	0.00E+00	1.46E-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
2388	761957.66	4069282.92	4.50E-08	3.86E-08	1.56E-09	0.00E+00	8.52E-08	6.86E-09	5.96E-09	2.37E-10	0.00E+00	1.31E-08	3.48E-09	2.60E-09	8.59E-11	0.00E+00	6.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2389	761932.88	4069281.74	4.09E-08	3.51E-08	1.42E-09	0.00E+00	7.75E-08	6.24E-09	5.41E-09	2.15E-10	0.00E+00	1.19E-08	3.17E-09	2.36E-09	7.81E-11	0.00E+00	5.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2390	762355.68	4069210.73	2.18E-07	1.87E-07	7.58E-09	0.00E+00	4.13E-07	3.33E-08	2.89E-08	1.15E-09	0.00E+00	6.33E-08	1.69E-08	1.26E-08	4.16E-10	0.00E+00	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2391	762377.38	4069220.75	2.48E-07	2.12E-07	8.60E-09	0.00E+00	4.69E-07	3.78E-08	3.28E-08	1.30E-09	0.00E+00	7.18E-08	1.92E-08	1.43E-08	4.72E-10	0.00E+00	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2392	762399.09	4069230.78	2.81E-07	2.41E-07	9.76E-09	0.00E+00	5.32E-07	4.29E-08	3.72E-08	1.48E-09	0.00E+00	8.15E-08	2.17E-08	1.62E-08	5.36E-10	0.00E+00	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2393	762420.8	4069240.8	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	6.07E-10	0.00E+00	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2394	762442.5	4069250.83	3.61E-07	3.10E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.77E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.88E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2395	762464.21	4069260.85	4.02E-07	3.45E-07	1.40E-08	0.00E+00	7.61E-07	6.13E-08	5.32E-08	2.12E-09	0.00E+00	1.17E-07	3.11E-08	2.32E-08	7.67E-10	0.00E+00	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2396	762485.91	4069270.88	4.43E-07	3.80E-07	1.54E-08	0.00E+00	8.38E-07	6.75E-08	5.86E-08	2.33E-09	0.00E+00	1.28E-07	3.42E-08	2.56E-08	8.44E-10	0.00E+00	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2397	762507.62	4069280.9	4.86E-07	4.17E-07	1.69E-08	0.00E+00	9.20E-07	7.41E-08	6.43E-08	2.56E-09	0.00E+00	1.41E-07	3.76E-08	2.80E-08	9.27E-10	0.00E+00	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2398	762529.32	4069290.93	5.28E-07	4.52E-07	1.83E-08	0.00E+00	9.98E-07	8.04E-08	6.97E-08	2.78E-09	0.00E+00	1.53E-07	4.08E-08	3.04E-08	1.01E-09	0.00E+00	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2399	762551.03	4069300.95	5.68E-07	4.87E-07	1.97E-08	0.00E+00	1.07E-06	8.65E-08	7.51E-08	2.99E-09	0.00E+00	1.65E-07	4.39E-08	3.28E-08	1.08E-09	0.00E+00	7.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2400	762572.73	4069310.98	6.07E-07	5.20E-07	2.11E-08	0.00E+00	1.15E-06	9.24E-08	8.02E-08	3.19E-09	0.00E+00	1.76E-07	4.69E-08	3.50E-08	1.16E-09	0.00E+00	8.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2401	762594.44	4069321	6.43E-07	5.51E-07	2.23E-08	0.00E+00	1.22E-06	9.80E-08	8.50E-08	3.38E-09	0.00E+00	1.86E-07	4.97E-08	3.71E-08	1.23E-09	0.00E+00	8.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2402	762616.14	4069331.03	6.76E-07	5.80E-07	2.35E-08	0.00E+00	1.28E-06	1.03E-07	8.94E-08	3.56E-09	0.00E+00	1.96E-07	5.23E-08	3.90E-08	1.29E-09	0.00E+00	9.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2403	762637.85	4069341.05	7.03E-07	6.03E-07	2.44E-08	0.00E+00	1.33E-06	1.07E-07	9.30E-08	3.70E-09	0.00E+00	2.04E-07	5.44E-08	4.06E-08	1.34E-09	0.00E+00	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2404	762659.55	4069351.08	7.24E-07	6.20E-07	2.51E-08	0.00E+00	1.37E-06	1.10E-07	9.57E-08	3.81E-09	0.00E+00	2.10E-07	5.59E-08	4.17E-08	1.38E-09	0.00E+00	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2405	762681.26	4069361.1	7.36E-07	6.31E-07	2.55E-08	0.00E+00	1.39E-06	1.12E-07	9.73E-08	3.87E-09	0.00E+00	2.13E-07	5.69E-08	4.25E-08	1.40E-09	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2406	762702.96	4069371.13	7.42E-07	6.36E-07	2.57E-08	0.00E+00	1.40E-06	1.13E-07	9.81E-08	3.90E-09	0.00E+00	2.15E-07	5.73E-08	4.28E-08	1.41E-09	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2407	762724.67	4069381.15	7.38E-07	6.33E-07	2.56E-08	0.00E+00	1.40E-06	1.13E-07	9.76E-08	3.88E-09	0.00E+00	2.14E-07	5.71E-08	4.26E-08	1.41E-09	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2408	762746.37	4069391.18	7.32E-07	6.28E-07	2.54E-08	0.00E+00	1.38E-06	1.12E-07	9.68E-08	3.85E-09	0.00E+00	2.12E-07	5.66E-08	4.22E-08	1.40E-09	0.00E+00	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2409	762768.08	4069401.2	7.19E-07	6.16E-07	2.49E-08	0.00E+00	1.36E-06	1.10E-07	9.50E-08	3.78E-09	0.00E+00	2.08E-07	5.56E-08	4.15E-08	1.37E-09	0.00E+00	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2410	762789.78	4069411.23	7.02E-07	6.02E-07	2.44E-08	0.00E+00	1.33E-06	1.07E-07	9.28E-08	3.69E-09	0.00E+00	2.03E-07	5.43E-08	4.05E-08	1.34E-09	0.00E+00	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2411	762820.09	4069443.56	6.70E-07	5.74E-07	2.32E-08	0.00E+00	1.27E-06	1.02E-07	8.85E-08	3.52E-09	0.00E+00	1.94E-07	5.18E-08	3.86E-08	1.28E-09	0.00E+00	9.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2412	762828.68	4069465.87	6.55E-07	5.62E-07	2.28E-08	0.00E+00	1.24E-06	9.99E-08	8.67E-08	3.45E-09	0.00E+00	1.90E-07	5.07E-08	3.78E-08	1.25E-09	0.00E+00	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2413	762837.28	4069488.18	6.36E-07	5.45E-07	2.21E-08	0.00E+00	1.20E-06	9.69E-08	8.41E-08	3.35E-09	0.00E+00	1.84E-07	4.92E-08	3.67E-08	1.21E-09	0.00E+00	8.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2414	762845.88	4069510.49	6.12E-07	5.24E-07	2.12E-08	0.00E+00	1.16E-06	9.32E-08	8.09E-08	3.22E-09	0.00E+00	1.77E-07	4.73E-08	3.53E-08	1.17E-09	0.00E+00	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2415	762854.47	4069532.8	5.83E-07	5.00E-07	2.02E-08	0.00E+00	1.10E-06	8.88E-08	7.71E-08	3.07E-09	0.00E+00	1.69E-07	4.51E-08	3.36E-08	1.11E-09	0.00E+00	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2416	762863.07	4069555.11	5.51E-07	4.73E-07	1.91E-08	0.00E+00	1.04E-06	8.40E-08	7.29E-08	2.90E-09	0.00E+00	1.60E-07	4.26E-08	3.18E-08	1.05E-09	0.00E+00	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2417	762871.67	4069577.42	5.17E-07	4.43E-07	1.80E-08	0.00E+00	9.79E-07	7.88E-08	6.84E-08	2.72E-09	0.00E+00	1.50E-07	4.00E-08	2.98E-08	9.86E-10	0.00E+00	7.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2418	762880.26	4069599.73	4.82E-07	4.13E-07	1.67E-08	0.00E+00	9.12E-07	7.34E-08	6.37E-08	2.54E-09	0.00E+00	1.40E-07	3.73E-08	2.78E-08	9.19E-10	0.00E+00	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2419	762888.86	4069622.04	4.46E-07	3.83E-07	1.55E-08	0.00E+00	8.44E-07	6.80E-08	5.90E-08	2.35E-09	0.00E+00	1.29E-07	3.45E-08	2.57E-08	8.51E-10	0.00E+00	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2420	762897.46	4069644.35	4.11E-07	3.52E-07	1.43E-08	0.00E+00	7.77E-07	6.26E-08	5.43E-08	2.16E-09	0.00E+00	1.19E-07	3.18E-08	2.37E-08	7.83E-10	0.00E+00	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2421	762906.05	4069666.65	3.77E-07	3.23E-07	1.31E-08	0.00E+00	7.13E-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	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2422	762914.65	4069688.96	3.44E-07	2.95E-07	1.19E-08	0.00E+00	6.51E-07	5.24E-08	4.55E-08	1.81E-09	0.00E+00	9.97E-08	2.66E-08	1.98E-08	6.56E-10	0.00E+00	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2423	762923.24	4069711.27	3.13E-07	2.68E-07	1.09E-08	0.00E+00	5.92E-07	4.77E-08	4.14E-08	1.65E-09	0.00E+00	9.07E-08	2.42E-08	1.80E-08	5.96E-10	0.00E+00	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2424	762931.84	4069733.58	2.82E-07	2.42E-07	9.79E-09	0.00E+00	5.34E-07	4.30E-08	3.73E-08	1.48E-09	0.00E+00	8.18E-08	2.18E-08	1.63E-08	5.38E-10	0.00E+00	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2425	762940.44	4069755.89	2.56E-07	2.19E-07	8.88E-09	0.00E+00	4.84E-07	3.90E-08	3.38E-08	1.35E-09	0.00E+00	7.42E-08	1.98E-08	1.48E-08	4.88E-10	0.00E+00	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2426	762949.03	4069778.2	2.32E-07	1.99E-07	8.05E-09	0.00E+00	4.39E-07	3.54E-08	3.07E-08	1.22E-09	0.00E+00	6.73E-08	1.79E-08	1.34E-08	4.42E-10	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2427	762957.63	4069800.51	2.10E-07	1.80E-07	7.29E-09	0.00E+00	3.97E-07	3.20E-08	2.78E-08	1.11E-09	0.00E+00	6.09E-08	1.62E-08	1.21E-08	4.00E-10	0.00E+00	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2428	762966.23	4069822.82	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	0.00E+00
2429	762974.82	4069845.13	1.73E-07	1.49E-07	6.02E-09	0.00E+00	3.28E-07	2.64E-08	2.29E-08	9.13E-10	0.00E+00	5.03E-08	1.34E-08	1.00E-08	3.31E-10	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2430	762983.42	4069867.44	1.59E-07	1.36E-07	5.51E-09	0.00E+00	3.00E-07	2.42E-08	2.10E-08	8.35E-10	0.00E+00	4.60E-08	1.23E-08	9.16E-09	3.03E-10	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2431	762992.02	4069889.75	1.46E-07	1.25E-07	5.08E-09	0.00E+00	2.77E-07	2.23E-08	1.93E-08	7.69E-10	0.00E+00	4.24E-08	1.13E-08	8.44E-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
2432	762333.97	4069200.7	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	3.67E-10	0.00E+00	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2433	762309.2	4069199.52	1.74E-07	1.49E-07	6.04E-09	0.00E+00	3.29E-07	2.65E-08	2.30E-08	9.15E-10	0.00E+00	5.04E-08	1.34E-08	1.00E-08	3.32E-10	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2434	762284.43	4069198.34	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
2435	762259.66	4069197.17	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.83E-08	7.26E-10	0.00E+00	4.00E-08	1.07E-08	7.96E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2436	762234.89	4069195.99	1.23E-07	1.06E-07	4.27E-09	0.00E+00	2.33E-07	1.88E-08	1.63E-08	6.48E-10	0.00E+00	3.57E-08	9.52E-09	7.11E-09	2.35E-10	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2437	762210.12	4069194.81	1.10E-07	9.43E-08	3.82E-09	0.00E+00	2.08E-07	1.68E-08	1.45E-08	5.79E-10	0.00E+00	3.19E-08	8.50E-09	6.35E-09	2.10E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2438	762185.35	4069193.63	9.82E-08	8.42E-08	3.41E-09	0.00E+00	1.86E-07	1.50E-08	1.30E-08	5.17E-10	0.00E+00	2.85E-08	7.59E-09	5.67E-09	1.87E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2439	762160.58	4069192.45	8.78E-08	7.52E-08	3.05E-09	0.00E+00	1.66E-07	1.34E-08	1.16E-08	4.62E-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
2440	762135.8	4069191.28	7.87E-08	6.75E-08	2.73E-09	0.00E+00	1.49E-07	1.20E-08	1.04E-08	4.14E-10	0.00E+00	2.28E-08	6.08E-09	4.54E-09	1.50E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2441	762111.03	4069190.1	7.11E-08	6.09E-08	2.47E-09	0.00E+00	1.34E-07	1.08E-08	9.39E-09	3.74E-10	0.00E+00	2.06E-08	5.49E-09	4.10E-09	1.35E-10	0.00E+00	9.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2442	762086.26	4069188.92	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	4.91E-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	0.00E+00
2443	762061.49	4069187.74	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	3.27E-09	1.08E-10	0.00E+00	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2444	762036.72	4069186.56	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	0.00E+00
2445	762011.95	4069185.38	4.56E-08	3.91E-08	1.58E-09	0.00E+00	8.64E-08	6.96E-09	6.03E-09	2.40E-10	0.00E+00	1.32E-08	3.53E-09	2.63E-09	8.70E-11	0.00E+00	6.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2446	761987.18	4069184.21	4.11E-08	3.52E-08	1.43E-09	0.00E+00	7.78E-08	6.26E-09	5.43E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.84E-11	0.00E+00	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2447	761962.41	4069183.03	3.72E-08	3.19E-08	1.29E-09	0.00E+00	7.05E-08	5.67E-09	4.92E-09	1.96E-10	0.00E+00	1.08E-08	2.88E-09	2.15E-09	7.10E-11	0.00E+00	5.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2448	761937.63	4069181.85	3.39E-08	2.91E-08	1.18E-09	0.00E+00	6.42E-08	5.17E-09	4.49E-09	1.78E-10	0.00E+00	9.83E-09	2.62E-09	1.96E-09	6.47E-11	0.00E+00	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2449	762360.55	4069110.9	1.56E-07	1.34E-07	5.41E-09	0.00E+00	2.95E-07	2.37E-08	2.06E-08	8.20E-10	0.00E+00	4.52E-08	1.20E-08	8.99E-09	2.97E-10	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2450	762382.38	4069120.98	1.75E-07	1.50E-07	6.08E-09	0.00E+00	3.32E-07	2.67E-08	2.32E-08	9.22E-10	0.00E+00	5.08E-08	1.35E-08	1.01E-08	3.34E-10	0.00E+00	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2451	762404.21	4069131.06	1.97E-07	1.69E-07	6.84E-09	0.00E+00	3.73E-07	3.00E-08	2.60E-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
2452	762426.04	4069141.14	2.20E-07	1.89E-07	7.64E-09	0.00E+00	4.17E-07	3.36E-08	2.91E-08	1.16E-09	0.00E+00	6.38E-08	1.70E-08	1.27E-08	4.20E-10	0.00E+00	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2453	762447.87	4069151.22	2.47E-07	2.11E-07	8.56E-09	0.00E+00	4.67E-07	3.76E-08	3.26E-08	1.30E-09	0.00E+00	7.15E-08	1.91E-08	1.42E-08	4.70E-10	0.00E+00	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2454	762469.7	4069161.31	2.76E-07	2.37E-07	9.58E-09	0.00E+00	5.22E-07	4.21E-08	3.65E-08	1.45E-09	0.00E+00	8.00E-08	2.13E-08	1.59E-08	5.26E-10	0.00E+00	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2455	762491.53	4069171.39	3.05E-07	2.62E-07	1.06E-08	0.00E+00	5.77E-07	4.65E-08	4.03E-08	1.61E-09	0.00E+00	8.84E-08	2.36E-08	1.76E-08	5.82E-10	0.00E+00	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2456	762513.36	4069181.47	3.37E-07	2.89E-07	1.17E-08	0.00E+00	6.38E-07	5.13E-08	4.45E-08	1.77E-09	0.00E+00	9.77E-08	2.60E-08	1.94E-08	6.42E-10	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2457	762535.19	4069191.55	3.69E-07	3.16E-07	1.28E-08	0.00E+00	6.97E-07	5.62E-08	4.87E-08	1.94E-09	0.00E+00	1.07E-07	2.85E-08	2.13E-08	7.03E-10	0.00E+00	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2458	762557.02	4069201.64	4.03E-07	3.46E-07	1.40E-08	0.00E+00	7.63E-07	6.15E-08	5.33E-08	2.12E-09	0.00E+00	1.17E-07	3.12E-08	2.33E-08	7.69E-10	0.00E+00	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2459	762578.85	4069211.72	4.38E-07	3.76E-07	1.52E-08	0.00E+00	8.30E-07	6.68E-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	6.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2460	762600.68	4069221.8	4.72E-07	4.04E-07	1.64E-08	0.00E+00	8.93E-07	7.19E-08	6.24E-08	2.48E-09	0.00E+00	1.37E-07	3.65E-08	2.72E-08	8.99E-10	0.00E+00	6.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2461	762622.51	4069231.88	5.03E-07	4.31E-07	1.74E-08	0.00E+00	9.51E-07	7.66E-08	6.64E-08	2.64E-09	0.00E+00	1.46E-07	3.88E-08	2.90E-08	9.58E-10	0.00E+00	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2462	762644.33	4069241.97	5.32E-07	4.56E-07	1.85E-08	0.00E+00	1.01E-06	8.11E-08	7.04E-08	2.80E-09	0.00E+00	1.54E-07	4.11E-08	3.07E-08	1.01E-09	0.00E+00	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2463	762666.16	4069252.05	5.59E-07	4.79E-07	1.94E-08	0.00E+00	1.06E-06	8.51E-08	7.38E-08	2.94E-09	0.00E+00	1.62E-07	4.32E-08	3.22E-08	1.06E-09	0.00E+00	7.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2464	762687.99	4069262.13	5.79E-07	4.97E-07	2.01E-08	0.00E+00	1.10E-06	8.83E-08	7.66E-08	3.05E-09	0.00E+00	1.68E-07	4.48E-08	3.34E-08	1.10E-09	0.00E+00	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2465	762709.82	4069272.21	5.97E-07	5.12E-07	2.07E-08	0.00E+00	1.13E-06	9.10E-08	7.90E-08	3.14E-09	0.00E+00	1.73E-07	4.62E-08	3.45E-08	1.14E-09	0.00E+00	8.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2466	762731.65	4069282.29	6.13E-07	5.25E-07	2.13E-08	0.00E+00	1.16E-06	9.33E-08	8.10E-08	3.22E-09	0.00E+00	1.78E-07	4.74E-08	3.53E-08	1.17E-09	0.00E+00	8.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2.39E-10	0.00E+00	1.71E-08	0.00E+00	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	2.15E-10	0.00E+00	1.54E-08	0.00E+00	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	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	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	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	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	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	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	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	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	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	0.00E+00	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2510	762016.7	4069085.5	3.81E-08	3.26E-08	1.32E-09	0.00E+00	7.20E-08	5.80E-09	5.03E-09	2.00E-10	0.00E+00	1.10E-08	2.94E-09	2.20E-09	7.26E-11	0.00E+00	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2511	761991.93	4069084.32	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	0.00E+00
2512	761967.16	4069083.14	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	0.00E+00
2513	761942.39	4069081.96	2.93E-08	2.51E-08	1.02E-09	0.00E+00	5.54E-08	4.46E-09	3.87E-09	1.54E-10	0.00E+00	8.49E-09	2.26E-09	1.69E-09	5.59E-11	0.00E+00	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2514	762365.4	4069011.05	1.14E-07	9.79E-08	3.96E-09	0.00E+00	2.16E-07	1.74E-08	1.51E-08	6.00E-10	0.00E+00	3.31E-08	8.82E-09	6.58E-09	2.18E-10	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2515	762387.33	4069021.18	1.27E-07	1.09E-07	4.40E-09	0.00E+00	2.40E-07	1.93E-08	1.67E-08	6.66E-10	0.00E+00	3.67E-08	9.79E-09	7.30E-09	2.41E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2516	762409.26	4069031.31	1.42E-07	1.22E-07	4.92E-09	0.00E+00	2.68E-07	2.16E-08	1.88E-08	7.46E-10	0.00E+00	4.11E-08	1.10E-08	8.18E-09	2.70E-10	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2517	762431.18	4069041.44	1.59E-07	1.36E-07	5.51E-09	0.00E+00	3.00E-07	2.42E-08	2.10E-08	8.35E-10	0.00E+00	4.60E-08	1.23E-08	9.16E-09	3.03E-10	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2518	762453.11	4069051.56	1.77E-07	1.51E-07	6.13E-09	0.00E+00	3.34E-07	2.69E-08	2.33E-08	9.29E-10	0.00E+00	5.12E-08	1.36E-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
2519	762475.04	4069061.69	1.96E-07	1.68E-07	6.81E-09	0.00E+00	3.71E-07	2.99E-08	2.59E-08	1.03E-09	0.00E+00	5.69E-08	1.52E-08	1.13E-08	3.74E-10	0.00E+00	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2520	762496.96	4069071.82	2.18E-07	1.87E-07	7.55E-09	0.00E+00	4.12E-07	3.32E-08	2.88E-08	1.14E-09	0.00E+00	6.31E-08	1.68E-08	1.26E-08	4.15E-10	0.00E+00	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2521	762518.89	4069081.94	2.41E-07	2.06E-07	8.35E-09	0.00E+00	4.55E-07	3.66E-08	3.18E-08	1.27E-09	0.00E+00	6.97E-08	1.86E-08	1.39E-08	4.58E-10	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2522	762540.82	4069092.07	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	0.00E+00
2523	762562.74	4069102.2	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	0.00E+00
2524	762584.67	4069112.33	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	1.82E-08	6.03E-10	0.00E+00	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2525	762606.6	4069122.45	3.42E-07	2.93E-07	1.19E-08	0.00E+00	6.47E-07	5.21E-08	4.52E-08	1.80E-09	0.00E+00	9.92E-08	2.64E-08	1.97E-08	6.52E-10	0.00E+00	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2526	762628.52	4069132.58	3.70E-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	2.86E-08	2.13E-08	7.04E-10	0.00E+00	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2527	762650.45	4069142.71	3.97E-07	3.40E-07	1.38E-08	0.00E+00	7.51E-07	6.05E-08	5.25E-08	2.09E-09	0.00E+00	1.15E-07	3.07E-08	2.29E-08	7.57E-10	0.00E+00	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2528	762672.38	4069152.84	4.23E-07	3.63E-07	1.47E-08	0.00E+00	8.00E-07	6.44E-08	5.59E-08	2.22E-09	0.00E+00	1.23E-07	3.27E-08	2.44E-08	8.06E-10	0.00E+00	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2529	762694.3	4069162.96	4.46E-07	3.83E-07	1.55E-08	0.00E+00	8.45E-07	6.80E-08	5.90E-08	2.35E-09	0.00E+00	1.29E-07	3.45E-08	2.58E-08	8.51E-10	0.00E+00	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2530	762716.23	4069173.09	4.68E-07	4.01E-07	1.63E-08	0.00E+00	8.86E-07	7.13E-08	6.19E-08	2.46E-09	0.00E+00	1.36E-07	3.62E-08	2.70E-08	8.92E-10	0.00E+00	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2531	762738.16	4069183.22	4.87E-07	4.18E-07	1.69E-08	0.00E+00	9.21E-07	7.42E-08	6.44E-08	2.56E-09	0.00E+00	1.41E-07	3.76E-08	2.81E-08	9.28E-10	0.00E+00	6.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2532	762760.08	4069193.34	5.03E-07	4.31E-07	1.74E-08	0.00E+00	9.51E-07	7.66E-08	6.65E-08	2.64E-09	0.00E+00	1.46E-07	3.89E-08	2.90E-08	9.58E-10	0.00E+00	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2533	762782.01	4069203.47	5.16E-07	4.42E-07	1.79E-08	0.00E+00	9.76E-07	7.86E-08	6.82E-08	2.71E-09	0.00E+00	1.49E-07	3.99E-08	2.97E-08	9.83E-10	0.00E+00	7.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2534	762803.94	4069213.6	5.27E-07	4.52E-07	1.83E-08	0.00E+00	9.96E-07	8.02E-08	6.96E-08	2.77E-09	0.00E+00	1.53E-07	4.07E-08	3.04E-08	1.00E-09	0.00E+00	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2535	762825.86	4069223.73	5.33E-07	4.57E-07	1.85E-08	0.00E+00	1.01E-06	8.12E-08	7.04E-08	2.80E-09	0.00E+00	1.54E-07	4.12E-08	3.07E-08	1.02E-09	0.00E+00	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2536	762847.79	4069233.85	5.35E-07	4.58E-07	1.86E-08	0.00E+00	1.01E-06	8.15E-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	0.00E+00
2537	762869.72	4069243.98	5.33E-07	4.57E-07	1.85E-08	0.00E+00	1.01E-06	8.11E-08	7.04E-08	2.80E-09	0.00E+00	1.54E-07	4.12E-08	3.07E-08	1.02E-09	0.00E+00	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2538	762891.64	4069254.11	5.26E-07	4.51E-07	1.83E-08	0.00E+00	9.96E-07	8.02E-08	6.96E-08	2.77E-09	0.00E+00	1.53E-07	4.07E-08	3.04E-08	1.00E-09	0.00E+00	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2539	762913.57	4069264.24	5.17E-07	4.43E-07	1.79E-08	0.00E+00	9.78E-07	7.88E-08	6.83E-08	2.72E-09	0.00E+00	1.50E-07	4.00E-08	2.98E-08	9.85E-10	0.00E+00	7.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2540	762935.5	4069274.36	5.04E-07	4.32E-07	1.75E-08	0.00E+00	9.54E-07	7.68E-08	6.66E-08	2.65E-09	0.00E+00	1.46E-07	3.90E-08	2.91E-08	9.61E-10	0.00E+00	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2541	762966.11	4069307.03	4.84E-07	4.15E-07	1.68E-08	0.00E+00	9.16E-07	7.38E-08	6.40E-08	2.55E-09	0.00E+00	1.40E-07	3.74E-08	2.79E-08	9.23E-10	0.00E+00	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2542	762974.79	4069329.56	4.77E-07	4.09E-07	1.66E-08	0.00E+00	9.03E-07	7.27E-08	6.31E-08	2.51E-09	0.00E+00	1.38E-07	3.69E-08	2.75E-08	9.10E-10	0.00E+00	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2543	762983.48	4069352.1	4.68E-07	4.01E-07	1.62E-08	0.00E+00	8.85E-07	7.13E-08	6.19E-08	2.46E-09	0.00E+00	1.36E-07	3.62E-08	2.70E-08	8.92E-10	0.00E+00	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2544	762992.16	4069374.64	4.56E-07	3.91E-07	1.58E-08	0.00E+00	8.62E-07	6.94E-08	6.02E-08	2.40E-09	0.00E+00	1.32E-07	3.52E-08	2.63E-08	8.68E-10	0.00E+00	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2545	763000.84	4069397.18	4.41E-07	3.79E-07	1.53E-08	0.00E+00	8.35E-07	6.73E-08	5.84E-08	2.32E-09	0.00E+00	1.28E-07	3.41E-08	2.55E-08	8.42E-10	0.00E+00	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2546	763009.53	4069419.71	4.24E-07	3.64E-07	1.47E-08	0.00E+00	8.02E-07	6.46E-08	5.61E-08	2.23E-09	0.00E+00	1.23E-07	3.28E-08	2.45E-08	8.08E-10	0.00E+00	5.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2547	763018.21	4069442.25	4.05E-07	3.47E-07	1.41E-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	2.34E-08	7.72E-10	0.00E+00	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2548	763026.9	4069464.79	3.82E-07	3.28E-07	1.33E-08	0.00E+00	7.23E-07	5.83E-08	5.05E-08	2.01E-09	0.00E+00	1.11E-07	2.96E-08	2.21E-08	7.29E-10	0.00E+00	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2549	763035.58	4069487.32	3.61E-07	3.09E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.77E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.88E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2550	763044.27	4069509.86	3.39E-07	2.91E-07	1.18E-08	0.00E+00	6.42E-07	5.17E-08	4.49E-08	1.78E-09	0.00E+00	9.83E-08	2.62E-08	1.96E-08	6.47E-10	0.00E+00	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2551	763052.95	4069532.4	3.18E-07	2.72E-07	1.10E-08	0.00E+00	6.01E-07	4.84E-08	4.20E-08	1.67E-09	0.00E+00	9.21E-08	2.46E-08	1.83E-08	6.06E-10	0.00E+00	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2552	763061.63	4069554.94	2.95E-07	2.53E-07	1.02E-08	0.00E+00	5.57E-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	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2553	763070.32	4069577.47	2.74E-07	2.35E-07	9.51E-09	0.00E+00	5.18E-07	4.17E-08	3.62E-08	1.44E-09	0.00E+00	7.94E-08	2.12E-08	1.58E-08	5.22E-10	0.00E+00	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2554	763079	4069600.01	2.55E-07	2.19E-07	8.84E-09	0.00E+00	4.82E-07	3.88E-08	3.37E-08	1.34E-09	0.00E+00	7.39E-08	1.97E-08	1.47E-08	4.86E-10	0.00E+00	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2555	763087.69	4069622.55	2.38E-07	2.04E-07	8.25E-09	0.00E+00	4.50E-07	3.62E-08	3.14E-08	1.25E-09	0.00E+00	6.89E-08	1.84E-08	1.37E-08	4.53E-10	0.00E+00	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2556	763096.37	4069645.08	2.22E-07	1.90E-07	7.71E-09	0.00E+00	4.20E-07	3.38E-08	2.94E-08	1.17E-09	0.00E+00	6.43E-08	1.72E-08	1.28E-08	4.23E-10	0.00E+00	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2557	763105.06	4069667.62	2.07E-07	1.78E-07	7.19E-09	0.00E+00	3.92E-07	3.16E-08	2.74E-08	1.09E-09	0.00E+00	6.00E-08	1.60E-08	1.19E-08	3.95E-10	0.00E+00	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2558	763113.74	4069690.16	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	3.64E-10	0.00E+00	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2559	763122.43	4069712.7	1.77E-07	1.52E-07	6.14E-09	0.00E+00	3.34E-07	2.69E-08	2.34E-08	9.30E-10	0.00E+00	5.12E-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
2560	763131.11	4069735.23	1.64E-07	1.40E-07	5.68E-09	0.00E+00	3.09E-07	2.49E-08	2.16E-08	8.60E-10	0.00E+00	4.74E-08	1.26E-08	9.43E-09	3.12E-10	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2561	763139.79	4069757.77	1.50E-07	1.28E-07	5.19E-09	0.00E+00	2.83E-07	2.28E-08	1.98E-08	7.87E-10	0.00E+00	4.34E-08	1.16E-08	8.63E-09	2.85E-10	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2562	763148.48	4069780.31	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.26E-10	0.00E+00	4.00E-08	1.07E-08	7.96E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2563	763157.16	4069802.84	1.28E-07	1.10E-07	4.45E-09	0.00E+00	2.43E-07	1.95E-08	1.69E-08	6.74E-10	0.00E+00	3.72E-08	9.91E-09	7.40E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2564	763165.85	4069825.38	1.20E-07	1.03E-07	4.15E-09	0.00E+00	2.26E-07	1.82E-08	1.58E-08	6.29E-10	0.00E+00	3.47E-08	9.24E-09	6.90E-09	2.28E-10	0.00E+00	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2565	763174.53	4069847.92	1.12E-07	9.59E-08	3.88E-09	0.00E+00	2.12E-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	0.00E+00
2566	763183.22	4069870.46	1.04E-07	8.95E-08	3.62E-09	0.00E+00	1.98E-07	1.59E-08	1.38E-08	5.49E-10	0.00E+00	3.03E-08	8.07E-09	6.02E-09	1.99E-10	0.00E+00	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2567	763191.9	4069892.99	9.75E-08	8.36E-08	3.38E-09	0.00E+00	1.84E-07	1.48E-08	1.29E-08	5.13E-10	0.00E+00	2.82E-08	7.53E-09	5.62E-09	1.86E-10	0.00E+00	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2568	762343.48	4069000.93	1.03E-07	8.86E-08	3.59E-09	0.00E+00	1.95E-07	1.57E-08	1.37E-08	5.43E-10	0.00E+00	2.99E-08	7.98E-09	5.96E-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
2569	762318.7	4068999.75	9.47E-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	2.75E-08	7.32E-09	5.46E-09	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2570	762293.93	4068998.57	8.67E-08	7.43E-08	3.01E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.56E-10	0.00E+00	2.51E-08	6.70E-09	5.00E-09	1.65E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2571	762269.16	4068997.39	7.90E-08	6.78E-08	2.74E-09	0.00E+00	1.50E-07	1.20E-08	1.04E-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	0.00E+00
2572	762244.39	4068996.21	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	0.00E+00
2573	762219.62	4068995.04	6.64E-08	5.69E-08	2.30E-09	0.00E+00	1.26E-07	1.01E-08	8.78E-09	3.49E-10	0.00E+00	1.92E-08	5.13E-09	3.83E-09	1.27E-10	0.00E+00	9.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2574	762194.85	4068993.86	6.10E-08	5.23E-08	2.12E-09	0.00E+00	1.15E-07	9.29E-09	8.06E-09	3.21E-10	0.00E+00	1.77E-08	4.71E-09	3.52E-09	1.16E-10	0.00E+00	8.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2575	762170.08	4068992.68	5.59E-08	4.79E-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	7.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2576	762145.31	4068991.5	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	0.00E+00
2577	762120.53	4068990.32	4.69E-08	4.02E-08	1.63E-09	0.00E+00	8.87E-08	7.14E-09	6.20E-09	2.47E-10	0.00E+00	1.36E-08	3.62E-09	2.70E-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
2578	762095.76	4068989.14	4.33E-08	3.71E-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
2579	762070.99	4068987.97	3.95E-08	3.39E-08	1.37E-09	0.00E+00	7.48E-08	6.02E-09	5.23E-09	2.08E-10	0.00E+00	1.15E-08	3.06E-09	2.28E-09	7.54E-11	0.00E+00	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2580	762046.22	4068986.79	3.62E-08	3.10E-08	1.26E-09	0.00E+00	6.85E-08	5.51E-09	4.78E-09	1.90E-10	0.00E+00	1.05E-08	2.80E-09	2.09E-09	6.90E-11	0.00E+00	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2581	762021.45	4068985.61	3.28E-08	2.82E-08	1.14E-09	0.00E+00	6.21E-08	5.00E-09	4.34E-09	1.73E-10	0.00E+00	9.52E-09	2.54E-09	1.89E-09	6.26E-11	0.00E+00	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2582	761996.68	4068984.43	3.00E-08	2.57E-08	1.04E-09	0.00E+00	5.67E-08	4.56E-09	3.96E-09	1.58E-10	0.00E+00	8.68E-09	2.32E-09	1.73E-09	5.71E-11	0.00E+00	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2583	761971.91	4068983.25	2.77E-08	2.37E-08	9.60E-10	0.00E+00	5.23E-08	4.22E-09	3.66E-09	1.46E-10	0.00E+00	8.02E-09	2.14E-09	1.60E-09	5.27E-11	0.00E+00	3.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2584	761947.14	4068982.08	2.57E-08	2.20E-08	8.93E-10	0.00E+00	4.87E-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	0.00E+00
2585	762370.23	4068911.2	8.98E-08	7.70E-08	3.12E-09	0.00E+00	1.70E-07	1.37E-08	1.19E-08	4.72E-10	0.00E+00	2.60E-08	6.94E-09	5.18E-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
2586	762392.24	4068921.37	9.85E-08	8.45E-08	3.42E-09	0.00E+00	1.86E-07	1.50E-08	1.30E-08	5.18E-10	0.00E+00	2.86E-08	7.62E-09	5.68E-09	1.88E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2587	762414.24	4068931.53	1.08E-07	9.25E-08	3.75E-09	0.00E+00	2.04E-07	1.64E-08	1.43E-08	5.68E-10	0.00E+00	3.13E-08	8.34E-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	0.00E+00
2588	762436.25	4068941.69	1.18E-07	1.02E-07	4.11E-09	0.00E+00	2.24E-07	1.80E-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	0.00E+00
2589	762458.25	4068951.86	1.31E-07	1.12E-07	4.54E-09	0.00E+00	2.47E-07	1.99E-08	1.73E-08	6.87E-10	0.00E+00	3.79E-08	1.01E-08	7.54E-09	2.49E-10	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2590	762480.26	4068962.02	1.44E-07	1.24E-07	5.01E-09	0.00E+00	2.73E-07	2.20E-08	1.91E-08	7.60E-10	0.00E+00	4.19E-08	1.12E-08	8.33E-09	2.75E-10	0.00E+00	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2591	762502.26	4068972.18	1.60E-07	1.37E-07	5.56E-09	0.00E+00	3.03E-07	2.44E-08	2.12E-08	8.43E-10	0.00E+00	4.64E-08	1.24E-08	9.24E-09	3.05E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2592	762524.27	4068982.35	1.76E-07	1.51E-07	6.13E-09	0.00E+00	3.34E-07	2.69E-08	2.33E-08	9.28E-10	0.00E+00	5.12E-08	1.36E-08	1.02E-08	3.36E-10	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2593	762546.27	4068992.51	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
2594	762568.28	4069002.67	2.13E-07	1.83E-07	7.40E-09	0.00E+00	4.03E-07	3.25E-08	2.82E-08	1.12E-09	0.00E+00	6.18E-08	1.65E-08	1.23E-08	4.06E-10	0.00E+00	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2595	762590.28	4069012.84	2.33E-07	2.00E-07	8.10E-09	0.00E+00	4.41E-07	3.55E-08	3.08E-08	1.23E-09	0.00E+00	6.76E-08	1.80E-08	1.35E-08	4.45E-10	0.00E+00	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2596	762612.29	4069023	2.54E-07	2.18E-07	8.82E-09	0.00E+00	4.81E-07	3.87E-08	3.36E-08	1.34E-09	0.00E+00	7.36E-08	1.96E-08	1.47E-08	4.84E-10	0.00E+00	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2640	763256.99	4069804.18	1.07E-07	9.19E-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	8.28E-09	6.18E-09	2.04E-10	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2641	763265.71	4069826.79	9.93E-08	8.52E-08	3.45E-09	0.00E+00	1.88E-07	1.51E-08	1.31E-08	5.23E-10	0.00E+00	2.88E-08	7.68E-09	5.73E-09	1.89E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2642	763274.42	4069849.41	9.26E-08	7.94E-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	7.16E-09	5.34E-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
2643	763283.14	4069872.03	8.70E-08	7.46E-08	3.02E-09	0.00E+00	1.65E-07	1.33E-08	1.15E-08	4.58E-10	0.00E+00	2.52E-08	6.72E-09	5.02E-09	1.66E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2644	763291.85	4069894.65	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	0.00E+00
2645	762348.23	4068901.04	8.19E-08	7.02E-08	2.84E-09	0.00E+00	1.55E-07	1.25E-08	1.08E-08	4.31E-10	0.00E+00	2.37E-08	6.33E-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	0.00E+00
2646	762323.46	4068899.86	7.54E-08	6.47E-08	2.62E-09	0.00E+00	1.43E-07	1.15E-08	9.97E-09	3.97E-10	0.00E+00	2.19E-08	5.83E-09	4.35E-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
2647	762298.68	4068898.68	6.98E-08	5.99E-08	2.42E-09	0.00E+00	1.32E-07	1.06E-08	9.23E-09	3.67E-10	0.00E+00	2.02E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2648	762273.91	4068897.5	6.50E-08	5.57E-08	2.26E-09	0.00E+00	1.23E-07	9.90E-09	8.59E-09	3.42E-10	0.00E+00	1.88E-08	5.02E-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	0.00E+00
2649	762249.14	4068896.33	6.01E-08	5.16E-08	2.09E-09	0.00E+00	1.14E-07	9.16E-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	0.00E+00
2650	762224.37	4068895.15	5.56E-08	4.77E-08	1.93E-09	0.00E+00	1.05E-07	8.47E-09	7.35E-09	2.92E-10	0.00E+00	1.61E-08	4.30E-09	3.21E-09	1.06E-10	0.00E+00	7.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2651	762199.6	4068893.97	5.14E-08	4.41E-08	1.78E-09	0.00E+00	9.73E-08	7.83E-09	6.80E-09	2.70E-10	0.00E+00	1.49E-08	3.97E-09	2.97E-09	9.80E-11	0.00E+00	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2652	762174.83	4068892.79	4.76E-08	4.08E-08	1.65E-09	0.00E+00	9.01E-08	7.25E-09	6.29E-09	2.50E-10	0.00E+00	1.38E-08	3.68E-09	2.75E-09	9.07E-11	0.00E+00	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2653	762150.06	4068891.61	4.40E-08	3.77E-08	1.53E-09	0.00E+00	8.33E-08	6.71E-09	5.82E-09	2.32E-10	0.00E+00	1.28E-08	3.40E-09	2.54E-09	8.39E-11	0.00E+00	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2654	762125.29	4068890.44	4.06E-08	3.48E-08	1.41E-09	0.00E+00	7.68E-08	6.19E-09	5.37E-09	2.14E-10	0.00E+00	1.18E-08	3.14E-09	2.34E-09	7.74E-11	0.00E+00	5.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2655	762100.51	4068889.26	3.71E-08	3.18E-08	1.29E-09	0.00E+00	7.03E-08	5.66E-09	4.91E-09	1.95E-10	0.00E+00	1.08E-08	2.87E-09	2.14E-09	7.08E-11	0.00E+00	5.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2656	762075.74	4068888.08	3.40E-08	2.92E-08	1.18E-09	0.00E+00	6.44E-08	5.18E-09	4.50E-09	1.79E-10	0.00E+00	9.86E-09	2.63E-09	1.96E-09	6.48E-11	0.00E+00	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2657	762050.97	4068886.9	3.13E-08	2.69E-08	1.09E-09	0.00E+00	5.93E-08	4.77E-09	4.14E-09	1.65E-10	0.00E+00	9.08E-09	2.42E-09	1.81E-09	5.97E-11	0.00E+00	4.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2658	762026.2	4068885.72	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	0.00E+00
2659	762001.43	4068884.55	2.69E-08	2.30E-08	9.33E-10	0.00E+00	5.08E-08	4.09E-09	3.55E-09	1.41E-10	0.00E+00	7.79E-09	2.08E-09	1.55E-09	5.12E-11	0.00E+00	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2660	761976.66	4068883.37	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	0.00E+00
2661	761951.89	4068882.19	2.32E-08	1.99E-08	8.06E-10	0.00E+00	4.39E-08	3.54E-09	3.07E-09	1.22E-10	0.00E+00	6.73E-09	1.79E-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	0.00E+00
2662	762375.05	4068811.35	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	0.00E+00
2663	762397.12	4068821.54	7.89E-08	6.76E-08	2.74E-09	0.00E+00	1.49E-07	1.20E-08	1.04E-08	4.15E-10	0.00E+00	2.29E-08	6.10E-09	4.55E-09	1.50E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2664	762419.19	4068831.73	8.58E-08	7.36E-08	2.98E-09	0.00E+00	1.62E-07	1.31E-08	1.13E-08	4.51E-10	0.00E+00	2.49E-08	6.63E-09	4.95E-09	1.64E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2665	762441.26	4068841.93	9.33E-08	8.00E-08	3.24E-09	0.00E+00	1.77E-07	1.42E-08	1.23E-08	4.91E-10	0.00E+00	2.70E-08	7.21E-09	5.38E-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
2666	762463.33	4068852.12	1.01E-07	8.69E-08	3.52E-09	0.00E+00	1.92E-07	1.54E-08	1.34E-08	5.33E-10	0.00E+00	2.94E-08	7.83E-09	5.85E-09	1.93E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2667	762485.4	4068862.31	1.10E-07	9.47E-08	3.83E-09	0.00E+00	2.09E-07	1.68E-08	1.46E-08	5.81E-10	0.00E+00	3.20E-08	8.54E-09	6.37E-09	2.11E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2668	762507.47	4068872.51	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	3.51E-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	0.00E+00
2669	762529.54	4068882.7	1.33E-07	1.14E-07	4.61E-09	0.00E+00	2.51E-07	2.02E-08	1.75E-08	6.98E-10	0.00E+00	3.85E-08	1.03E-08	7.66E-09	2.53E-10	0.00E+00	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2670	762551.61	4068892.89	1.46E-07	1.25E-07	5.06E-09	0.00E+00	2.76E-07	2.22E-08	1.93E-08	7.67E-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	0.00E+00
2671	762573.68	4068903.09	1.60E-07	1.37E-07	5.55E-09	0.00E+00	3.02E-07	2.44E-08	2.11E-08	8.41E-10	0.00E+00	4.63E-08	1.24E-08	9.22E-09	3.05E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2672	762595.75	4068913.28	1.75E-07	1.50E-07	6.08E-09	0.00E+00	3.31E-07	2.67E-08	2.31E-08	9.21E-10	0.00E+00	5.07E-08	1.35E-08	1.01E-08	3.34E-10	0.00E+00	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2673	762617.82	4068923.47	1.91E-07	1.64E-07	6.63E-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	3.64E-10	0.00E+00	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2674	762639.89	4068933.67	2.08E-07	1.78E-07	7.21E-09	0.00E+00	3.93E-07	3.17E-08	2.75E-08	1.09E-09	0.00E+00	6.02E-08	1.61E-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	0.00E+00
2675	762661.96	4068943.86	2.25E-07	1.93E-07	7.81E-09	0.00E+00	4.26E-07	3.43E-08	2.98E-08	1.18E-09	0.00E+00	6.52E-08	1.74E-08	1.30E-08	4.29E-10	0.00E+00	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2676	762684.03	4068954.05	2.42E-07	2.08E-07	8.42E-09	0.00E+00	4.59E-07	3.69E-08	3.21E-08	1.28E-09	0.00E+00	7.03E-08	1.87E-08	1.40E-08	4.62E-10	0.00E+00	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2677	762706.1	4068964.25	2.61E-07	2.24E-07	9.05E-09	0.00E+00	4.93E-07	3.97E-08	3.45E-08	1.37E-09	0.00E+00	7.56E-08	2.02E-08	1.50E-08	4.97E-10	0.00E+00	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2678	762728.17	4068974.44	2.79E-07	2.39E-07	9.68E-09	0.00E+00	5.28E-07	4.25E-08	3.69E-08	1.47E-09	0.00E+00	8.08E-08	2.16E-08	1.61E-08	5.32E-10	0.00E+00	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2679	762750.24	4068984.63	2.97E-07	2.55E-07	1.03E-08	0.00E+00	5.63E-07	4.53E-08	3.93E-08	1.56E-09	0.00E+00	8.62E-08	2.30E-08	1.72E-08	5.67E-10	0.00E+00	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2680	762772.31	4068994.83	3.15E-07	2.70E-07	1.09E-08	0.00E+00	5.95E-07	4.79E-08	4.16E-08	1.66E-09	0.00E+00	9.12E-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	0.00E+00
2681	762794.38	4069005.02	3.31E-07	2.84E-07	1.15E-08	0.00E+00	6.27E-07	5.05E-08	4.38E-08	1.74E-09	0.00E+00	9.60E-08	2.56E-08	1.91E-08	6.31E-10	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2682	762816.45	4069015.21	3.47E-07	2.97E-07	1.20E-08	0.00E+00	6.56E-07	5.28E-08	4.58E-08	1.82E-09	0.00E+00	1.00E-07	2.68E-08	2.00E-08	6.61E-10	0.00E+00	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2683	762838.52	4069025.41	3.61E-07	3.10E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.77E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.88E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2684	762860.59	4069035.6	3.74E-07	3.20E-07	1.30E-08	0.00E+00	7.07E-07	5.69E-08	4.94E-08	1.97E-09	0.00E+00	1.08E-07	2.89E-08	2.16E-08	7.12E-10	0.00E+00	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2685	762882.66	4069045.8	3.85E-07	3.30E-07	1.33E-08	0.00E+00	7.28E-07	5.86E-08	5.08E-08	2.02E-09	0.00E+00	1.11E-07	2.97E-08	2.22E-08	7.33E-10	0.00E+00	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2686	762904.73	4069055.99	3.94E-07	3.37E-07	1.37E-08	0.00E+00	7.45E-07	6.00E-08	5.20E-08	2.07E-09	0.00E+00	1.14E-07	3.04E-08	2.27E-08	7.50E-10	0.00E+00	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2687	762926.8	4069066.18	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	0.00E+00
2688	762948.87	4069076.38	4.05E-07	3.47E-07	1.41E-08	0.00E+00	7.66E-07	6.17E-08	5.36E-08	2.13E-09	0.00E+00	1.17E-07	3.13E-08	2.34E-08	7.72E-10	0.00E+00	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2689	762970.94	4069086.57	4.08E-07	3.50E-07	1.42E-08	0.00E+00	7.72E-07	6.21E-08	5.39E-08	2.15E-09	0.00E+00	1.18E-07	3.15E-08	2.35E-08	7.77E-10	0.00E+00	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2690	762993.01	4069096.76	4.08E-07	3.50E-07	1.42E-08	0.00E+00	7.73E-07	6.22E-08	5.40E-08	2.15E-09	0.00E+00	1.18E-07	3.16E-08	2.36E-08	7.79E-10	0.00E+00	5.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2691	763015.08	4069106.96	4.06E-07	3.48E-07	1.41E-08	0.00E+00	7.69E-07	6.19E-08	5.37E-08	2.14E-09	0.00E+00	1.18E-07	3.14E-08	2.34E-08	7.75E-10	0.00E+00	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2692	763037.15	4069117.15	4.01E-07	3.44E-07	1.39E-08	0.00E+00	7.59E-07	6.11E-08	5.31E-08	2.11E-09	0.00E+00	1.16E-07	3.10E-08	2.31E-08	7.65E-10	0.00E+00	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2693	763059.22	4069127.34	3.95E-07	3.38E-07	1.37E-08	0.00E+00	7.47E-07	6.01E-08	5.22E-08	2.08E-09	0.00E+00	1.14E-07	3.05E-08	2.28E-08	7.52E-10	0.00E+00	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2694	763081.29	4069137.54	3.86E-07	3.31E-07	1.34E-08	0.00E+00	7.31E-07	5.89E-08	5.11E-08	2.03E-09	0.00E+00	1.12E-07	2.99E-08	2.23E-08	7.36E-10	0.00E+00	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2695	763112.1	4069170.41	3.76E-07	3.22E-07	1.30E-08	0.00E+00	7.11E-07	5.73E-08	4.97E-08	1.98E-09	0.00E+00	1.09E-07	2.91E-08	2.17E-08	7.17E-10	0.00E+00	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2696	763120.84	4069193.1	3.73E-07	3.20E-07	1.29E-08	0.00E+00	7.06E-07	5.68E-08	4.93E-08	1.96E-09	0.00E+00	1.08E-07	2.88E-08	2.15E-08	7.11E-10	0.00E+00	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2697	763129.58	4069215.78	3.68E-07	3.16E-07	1.28E-08	0.00E+00	6.96E-07	5.61E-08	4.86E-08	1.94E-09	0.00E+00	1.07E-07	2.84E-08	2.12E-08	7.01E-10	0.00E+00	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2698	763138.32	4069238.47	3.61E-07	3.09E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.77E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.88E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2699	763147.06	4069261.15	3.52E-07	3.01E-07	1.22E-08	0.00E+00	6.65E-07	5.36E-08	4.65E-08	1.85E-09	0.00E+00	1.02E-07	2.72E-08	2.03E-08	6.70E-10	0.00E+00	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2700	763155.8	4069283.84	3.41E-07	2.92E-07	1.18E-08	0.00E+00	6.44E-07	5.19E-08	4.50E-08	1.79E-09	0.00E+00	9.87E-08	2.63E-08	1.96E-08	6.49E-10	0.00E+00	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2701	763164.54	4069306.52	3.29E-07	2.82E-07	1.14E-08	0.00E+00	6.23E-07	5.02E-08	4.35E-08	1.73E-09	0.00E+00	9.54E-08	2.54E-08	1.90E-08	6.28E-10	0.00E+00	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2702	763173.29	4069329.21	3.17E-07	2.72E-07	1.10E-08	0.00E+00	6.00E-07	4.83E-08	4.19E-08	1.67E-09	0.00E+00	9.19E-08	2.45E-08	1.83E-08	6.04E-10	0.00E+00	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2703	763182.03	4069351.89	3.05E-07	2.61E-07	1.06E-08	0.00E+00	5.77E-07	4.64E-08	4.03E-08	1.60E-09	0.00E+00	8.83E-08	2.36E-08	1.76E-08	5.81E-10	0.00E+00	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2704	763190.77	4069374.57	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	8.43E-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
2705	763199.51	4069397.26	2.77E-07	2.38E-07	9.62E-09	0.00E+00	5.24E-07	4.22E-08	3.66E-08	1.46E-09	0.00E+00	8.03E-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	0.00E+00
2706	763208.25	4069419.94	2.62E-07	2.25E-07	9.11E-09	0.00E+00	4.97E-07	4.00E-08	3.47E-08	1.38E-09	0.00E+00	7.61E-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	0.00E+00
2707	763216.99	4069442.63	2.48E-07	2.13E-07	8.62E-09	0.00E+00	4.70E-07	3.78E-08	3.28E-08	1.31E-09	0.00E+00	7.19E-08	1.92E-08	1.43E-08	4.73E-10	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2708	763225.73	4069465.31	2.36E-07	2.02E-07	8.19E-09	0.00E+00	4.47E-07	3.60E-08	3.12E-08	1.24E-09	0.00E+00	6.84E-08	1.82E-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	0.00E+00
2709	763234.47	4069488	2.23E-07	1.91E-07	7.72E-09	0.00E+00	4.21E-07	3.39E-08	2.94E-08	1.17E-09	0.00E+00	6.45E-08	1.72E-08	1.28E-08	4.24E-10	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2710	763243.21	4069510.68	2.10E-07	1.80E-07	7.28E-09	0.00E+00	3.97E-07	3.20E-08	2.77E-08	1.10E-09	0.00E+00	6.08E-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
2711	763251.96	4069533.37	1.97E-07	1.69E-07	6.83E-09	0.00E+00	3.73E-07	3.00E-08	2.60E-08	1.04E-09	0.00E+00	5.71E-08	1.52E-08	1.14E-08	3.75E-10	0.00E+00	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2712	763260.7	4069556.05	1.84E-07	1.57E-07	6.37E-09	0.00E+00	3.47E-07	2.80E-08	2.43E-08	9.66E-10	0.00E+00	5.32E-08	1.42E-08	1.06E-08	3.50E-10	0.00E+00	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2713	763269.44	4069578.73	1.72E-07	1.48E-07	5.98E-09	0.00E+00	3.26E-07	2.62E-08	2.28E-08	9.06E-10	0.00E+00	4.99E-08	1.33E-08	9.93E-09	3.28E-10	0.00E+00	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2714	763278.18	4069601.42	1.62E-07	1.39E-07	5.61E-09	0.00E+00	3.06E-07	2.46E-08	2.14E-08	8.50E-10	0.00E+00	4.68E-08	1.25E-08	9.32E-09	3.08E-10	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2715	763286.92	4069624.1	1.52E-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	0.00E+00
2716	763295.66	4069646.79	1.43E-07	1.23E-07	4.97E-09	0.00E+00	2.71E-07	2.18E-08	1.89E-08	7.54E-10	0.00E+00	4.15E-08	1.11E-08	8.26E-09	2.73E-10	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2717	763304.4	4069669.47	1.34E-07	1.15E-07	4.65E-09	0.00E+00	2.54E-07	2.04E-08	1.77E-08	7.05E-10	0.00E+00	3.89E-08	1.04E-08	7.73E-09	2.56E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2718	763313.14	4069692.16	1.25E-07	1.07E-07	4.35E-09	0.00E+00	2.37E-07	1.91E-08	1.66E-08	6.59E-10	0.00E+00	3.63E-08	9.69E-09	7.23E-09	2.39E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2719	763321.88	4069714.84	1.17E-07	1.01E-07	4.07E-09	0.00E+00	2.22E-07	1.79E-08	1.55E-08	6.17E-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	0.00E+00
2720	763330.63	4069737.53	1.09E-07	9.38E-08	3.80E-09	0.00E+00	2.07E-07	1.67E-08	1.45E-08	5.75E-10	0.00E+00	3.17E-08	8.45E-09	6.31E-09	2.08E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2721	763339.37	4069760.21	1.02E-07	8.75E-08	3.54E-09	0.00E+00	1.93E-07	1.55E-08	1.35E-08	5.37E-10	0.00E+00	2.96E-08	7.89E-09	5.89E-09	1.94E-10	0.00E+00	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2722	763348.11	4069782.89	9.54E-08	8.18E-08	3.31E-09	0.00E+00	1.81E-07	1.45E-08	1.26E-08	5.02E-10	0.00E+00	2.77E-08	7.37E-09	5.50E-09	1.82E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2723	763356.85	4069805.58	8.96E-08	7.68E-08	3.11E-09	0.00E+00	1.70E-07	1.37E-08	1.18E-08	4.71E-10	0.00E+00	2.60E-08	6.92E-09	5.17E-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
2724	763365.59	4069828.26	8.46E-08	7.25E-08	2.93E-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	0.00E+00
2725	763374.33	4069850.95	8.04E-08	6.89E-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	6.21E-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	0.00E+00
2726	763383.07	4069873.63	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

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2770	762932.96	4068966.95	3.38E-07	2.89E-07	1.17E-08	0.00E+00	6.39E-07	5.14E-08	4.46E-08	1.78E-09	0.00E+00	9.78E-08	2.61E-08	1.95E-08	6.43E-10	0.00E+00	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2771	762955.08	4068977.16	3.46E-07	2.97E-07	1.20E-08	0.00E+00	6.54E-07	5.27E-08	4.57E-08	1.82E-09	0.00E+00	1.00E-07	2.67E-08	2.00E-08	6.59E-10	0.00E+00	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2772	762977.21	4068987.38	3.53E-07	3.02E-07	1.22E-08	0.00E+00	6.67E-07	5.37E-08	4.66E-08	1.86E-09	0.00E+00	1.02E-07	2.73E-08	2.03E-08	6.72E-10	0.00E+00	4.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2773	762999.33	4068997.6	3.58E-07	3.07E-07	1.24E-08	0.00E+00	6.77E-07	5.45E-08	4.73E-08	1.88E-09	0.00E+00	1.04E-07	2.77E-08	2.06E-08	6.82E-10	0.00E+00	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2774	763021.45	4069007.82	3.61E-07	3.10E-07	1.25E-08	0.00E+00	6.84E-07	5.51E-08	4.78E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.89E-10	0.00E+00	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2775	763043.58	4069018.04	3.63E-07	3.12E-07	1.26E-08	0.00E+00	6.88E-07	5.54E-08	4.81E-08	1.91E-09	0.00E+00	1.05E-07	2.81E-08	2.10E-08	6.93E-10	0.00E+00	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2776	763065.7	4069028.26	3.63E-07	3.11E-07	1.26E-08	0.00E+00	6.87E-07	5.53E-08	4.80E-08	1.91E-09	0.00E+00	1.05E-07	2.81E-08	2.10E-08	6.92E-10	0.00E+00	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2777	763087.83	4069038.48	3.61E-07	3.10E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.78E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.89E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2778	763109.95	4069048.69	3.58E-07	3.07E-07	1.24E-08	0.00E+00	6.77E-07	5.46E-08	4.73E-08	1.88E-09	0.00E+00	1.04E-07	2.77E-08	2.07E-08	6.83E-10	0.00E+00	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2779	763132.08	4069058.91	3.53E-07	3.03E-07	1.23E-08	0.00E+00	6.69E-07	5.39E-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	0.00E+00
2780	763154.2	4069069.13	3.47E-07	2.98E-07	1.21E-08	0.00E+00	6.57E-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	0.00E+00
2781	763185.09	4069102.09	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	9.82E-08	2.62E-08	1.95E-08	6.46E-10	0.00E+00	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2782	763193.85	4069124.83	3.36E-07	2.88E-07	1.17E-08	0.00E+00	6.36E-07	5.12E-08	4.44E-08	1.77E-09	0.00E+00	9.74E-08	2.60E-08	1.94E-08	6.41E-10	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2783	763202.61	4069147.57	3.32E-07	2.85E-07	1.15E-08	0.00E+00	6.28E-07	5.06E-08	4.39E-08	1.75E-09	0.00E+00	9.63E-08	2.57E-08	1.92E-08	6.33E-10	0.00E+00	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2784	763211.37	4069170.31	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	9.46E-08	2.52E-08	1.88E-08	6.22E-10	0.00E+00	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2785	763220.14	4069193.05	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	0.00E+00
2786	763228.9	4069215.79	3.10E-07	2.66E-07	1.08E-08	0.00E+00	5.87E-07	4.73E-08	4.10E-08	1.63E-09	0.00E+00	9.00E-08	2.40E-08	1.79E-08	5.92E-10	0.00E+00	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2787	763237.66	4069238.53	3.01E-07	2.58E-07	1.05E-08	0.00E+00	5.70E-07	4.59E-08	3.98E-08	1.58E-09	0.00E+00	8.73E-08	2.33E-08	1.74E-08	5.74E-10	0.00E+00	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2788	763246.42	4069261.27	2.91E-07	2.50E-07	1.01E-08	0.00E+00	5.51E-07	4.44E-08	3.85E-08	1.53E-09	0.00E+00	8.44E-08	2.25E-08	1.68E-08	5.55E-10	0.00E+00	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2789	763255.19	4069284.01	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	8.11E-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	0.00E+00
2790	763263.95	4069306.75	2.68E-07	2.30E-07	9.31E-09	0.00E+00	5.08E-07	4.09E-08	3.55E-08	1.41E-09	0.00E+00	7.78E-08	2.07E-08	1.55E-08	5.11E-10	0.00E+00	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2791	763272.71	4069329.49	2.57E-07	2.20E-07	8.92E-09	0.00E+00	4.86E-07	3.92E-08	3.40E-08	1.35E-09	0.00E+00	7.45E-08	1.99E-08	1.48E-08	4.90E-10	0.00E+00	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2792	763281.47	4069352.23	2.46E-07	2.11E-07	8.54E-09	0.00E+00	4.65E-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	0.00E+00
2793	763290.24	4069374.97	2.35E-07	2.02E-07	8.16E-09	0.00E+00	4.45E-07	3.58E-08	3.11E-08	1.24E-09	0.00E+00	6.81E-08	1.82E-08	1.36E-08	4.48E-10	0.00E+00	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2794	763299	4069397.71	2.23E-07	1.92E-07	7.76E-09	0.00E+00	4.23E-07	3.40E-08	2.95E-08	1.18E-09	0.00E+00	6.48E-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
2795	763307.76	4069420.45	2.12E-07	1.82E-07	7.35E-09	0.00E+00	4.01E-07	3.23E-08	2.80E-08	1.11E-09	0.00E+00	6.14E-08	1.64E-08	1.22E-08	4.04E-10	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2796	763316.52	4069443.19	2.01E-07	1.72E-07	6.98E-09	0.00E+00	3.80E-07	3.06E-08	2.66E-08	1.06E-09	0.00E+00	5.83E-08	1.55E-08	1.16E-08	3.83E-10	0.00E+00	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2797	763325.29	4069465.93	1.91E-07	1.64E-07	6.62E-09	0.00E+00	3.61E-07	2.91E-08	2.52E-08	1.00E-09	0.00E+00	5.53E-08	1.48E-08	1.10E-08	3.64E-10	0.00E+00	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2798	763334.05	4069488.67	1.81E-07	1.55E-07	6.28E-09	0.00E+00	3.42E-07	2.76E-08	2.39E-08	9.52E-10	0.00E+00	5.25E-08	1.40E-08	1.04E-08	3.45E-10	0.00E+00	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2799	763342.81	4069511.41	1.71E-07	1.47E-07	5.95E-09	0.00E+00	3.24E-07	2.61E-08	2.27E-08	9.02E-10	0.00E+00	4.97E-08	1.32E-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	0.00E+00
2800	763351.58	4069534.15	1.62E-07	1.39E-07	5.62E-09	0.00E+00	3.06E-07	2.47E-08	2.14E-08	8.52E-10	0.00E+00	4.69E-08	1.25E-08	9.34E-09	3.09E-10	0.00E+00	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2801	763360.34	4069556.89	1.52E-07	1.31E-07	5.28E-09	0.00E+00	2.88E-07	2.32E-08	2.01E-08	8.01E-10	0.00E+00	4.41E-08	1.18E-08	8.78E-09	2.90E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2802	763369.1	4069579.63	1.43E-07	1.23E-07	4.96E-09	0.00E+00	2.71E-07	2.18E-08	1.89E-08	7.52E-10	0.00E+00	4.15E-08	1.11E-08	8.25E-09	2.73E-10	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2803	763377.86	4069602.37	1.35E-07	1.16E-07	4.68E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.09E-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
2804	763386.63	4069625.11	1.27E-07	1.09E-07	4.40E-09	0.00E+00	2.40E-07	1.93E-08	1.68E-08	6.67E-10	0.00E+00	3.68E-08	9.80E-09	7.31E-09	2.42E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2805	763395.39	4069647.85	1.19E-07	1.02E-07	4.13E-09	0.00E+00	2.25E-07	1.81E-08	1.57E-08	6.26E-10	0.00E+00	3.45E-08	9.20E-09	6.87E-09	2.27E-10	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2806	763404.15	4069670.59	1.12E-07	9.57E-08	3.88E-09	0.00E+00	2.11E-07	1.70E-08	1.48E-08	5.87E-10	0.00E+00	3.24E-08	8.63E-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	0.00E+00
2807	763412.91	4069693.34	1.04E-07	8.95E-08	3.62E-09	0.00E+00	1.98E-07	1.59E-08	1.38E-08	5.49E-10	0.00E+00	3.03E-08	8.07E-09	6.02E-09	1.99E-10	0.00E+00	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2808	763421.68	4069716.08	9.77E-08	8.38E-08	3.39E-09	0.00E+00	1.85E-07	1.49E-08	1.29E-08	5.14E-10	0.00E+00	2.83E-08	7.55E-09	5.64E-09	1.86E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2809	763430.44	4069738.82	9.20E-08	7.89E-08	3.19E-09	0.00E+00	1.74E-07	1.40E-08	1.22E-08	4.84E-10	0.00E+00	2.67E-08	7.11E-09	5.31E-09	1.75E-10	0.00E+00	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2810	763439.2	4069761.56	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	0.00E+00
2811	763447.96	4069784.3	8.26E-08	7.08E-08	2.87E-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
2812	763456.73	4069807.04	7.88E-08	6.76E-08	2.74E-09	0.00E+00	1.49E-07	1.20E-08	1.04E-08	4.15E-10	0.00E+00	2.29E-08	6.09E-09	4.55E-09	1.50E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2813	763465.49	4069829.78	7.48E-08	6.41E-08	2.60E-09	0.00E+00	1.41E-07	1.14E-08	9.88E-09	3.93E-10	0.00E+00	2.17E-08	5.78E-09	4.31E-09	1.43E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2814	763474.25	4069852.52	7.09E-08	6.08E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.38E-09	3.73E-10	0.00E+00	2.06E-08	5.48E-09	4.09E-09	1.35E-10	0.00E+00	9.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2815	763483.01	4069875.26	6.76E-08	5.80E-08	2.35E-09	0.00E+00	1.28E-07	1.03E-08	8.94E-09	3.56E-10	0.00E+00	1.96E-08	5.23E-09	3.90E-09	1.29E-10	0.00E+00	9.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2816	763491.78	4069898	6.47E-08	5.54E-08	2.24E-09	0.00E+00	1.22E-07	9.85E-09	8.55E-09	3.40E-10	0.00E+00	1.87E-08	5.00E-09	3.73E-09	1.23E-10	0.00E+00	8.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2817	762357.73	4068701.26	5.62E-08	4.82E-08	1.95E-09	0.00E+00	1.06E-07	8.56E-09	7.43E-09	2.96E-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	0.00E+00
2818	762332.96	4068700.09	5.29E-08	4.54E-08	1.84E-09	0.00E+00	1.00E-07	8.07E-09	7.00E-09	2.78E-10	0.00E+00	1.53E-08	4.09E-09	3.05E-09	1.01E-10	0.00E+00	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2819	762308.19	4068698.91	5.00E-08	4.29E-08	1.74E-09	0.00E+00	9.46E-08	7.62E-09	6.61E-09	2.63E-10	0.00E+00	1.45E-08	3.86E-09	2.88E-09	9.53E-11	0.00E+00	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2820	762283.41	4068697.73	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	0.00E+00
2821	762258.64	4068696.55	4.38E-08	3.75E-08	1.52E-09	0.00E+00	8.28E-08	6.67E-09	5.79E-09	2.30E-10	0.00E+00	1.27E-08	3.38E-09	2.53E-09	8.35E-11	0.00E+00	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2822	762233.87	4068695.37	4.11E-08	3.52E-08	1.43E-09	0.00E+00	7.78E-08	6.26E-09	5.43E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.84E-11	0.00E+00	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2823	762209.1	4068694.2	3.88E-08	3.32E-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	7.39E-11	0.00E+00	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2824	762184.33	4068693.02	3.62E-08	3.11E-08	1.26E-09	0.00E+00	6.86E-08	5.52E-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	0.00E+00
2825	762159.56	4068691.84	3.38E-08	2.90E-08	1.17E-09	0.00E+00	6.39E-08	5.14E-09	4.46E-09	1.78E-10	0.00E+00	9.79E-09	2.61E-09	1.95E-09	6.44E-11	0.00E+00	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2826	762134.79	4068690.66	3.14E-08	2.69E-08	1.09E-09	0.00E+00	5.95E-08	4.79E-09	4.15E-09	1.65E-10	0.00E+00	9.11E-09	2.43E-09	1.81E-09	5.99E-11	0.00E+00	4.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2827	762110.02	4068689.48	2.93E-08	2.51E-08	1.02E-09	0.00E+00	5.54E-08	4.46E-09	3.87E-09	1.54E-10	0.00E+00	8.49E-09	2.26E-09	1.69E-09	5.59E-11	0.00E+00	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2828	762085.24	4068688.31	2.73E-08	2.34E-08	9.49E-10	0.00E+00	5.17E-08	4.16E-09	3.61E-09	1.44E-10	0.00E+00	7.92E-09	2.11E-09	1.58E-09	5.21E-11	0.00E+00	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2829	762060.47	4068687.13	2.54E-08	2.17E-08	8.80E-10	0.00E+00	4.80E-08	3.86E-09	3.35E-09	1.33E-10	0.00E+00	7.35E-09	1.96E-09	1.46E-09	4.83E-11	0.00E+00	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2830	762035.7	4068685.95	2.37E-08	2.03E-08	8.22E-10	0.00E+00	4.48E-08	3.61E-09	3.13E-09	1.25E-10	0.00E+00	6.86E-09	1.83E-09	1.37E-09	4.51E-11	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2831	762010.93	4068684.77	2.21E-08	1.89E-08	7.66E-10	0.00E+00	4.17E-08	3.36E-09	2.92E-09	1.16E-10	0.00E+00	6.39E-09	1.71E-09	1.27E-09	4.21E-11	0.00E+00	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2832	761986.16	4068683.59	2.06E-08	1.77E-08	7.16E-10	0.00E+00	3.91E-08	3.15E-09	2.73E-09	1.09E-10	0.00E+00	5.98E-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	0.00E+00
2833	761961.39	4068682.41	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
2834	761879.38	4069880.67	8.22E-07	7.05E-07	2.85E-08	0.00E+00	1.56E-06	1.25E-07	1.09E-07	4.32E-09	0.00E+00	2.38E-07	6.35E-08	4.74E-08	1.57E-09	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2835	761879	4069904.75	1.42E-06	1.22E-06	4.93E-08	0.00E+00	2.69E-06	2.16E-07	1.88E-07	7.47E-09	0.00E+00	4.11E-07	1.10E-07	8.19E-08	2.71E-09	0.00E+00	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2836	761878.62	4069928.83	2.00E-06	1.71E-06	6.94E-08	0.00E+00	3.78E-06	3.05E-07	2.64E-07	1.05E-08	0.00E+00	5.79E-07	1.55E-07	1.15E-07	3.81E-09	0.00E+00	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2837	761878.24	4069952.91	2.37E-06	2.03E-06	8.22E-08	0.00E+00	4.48E-06	3.61E-07	3.13E-07	1.25E-08	0.00E+00	6.87E-07	1.83E-07	1.37E-07	4.52E-09	0.00E+00	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2838	761877.86	4069976.99	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	4.96E-09	0.00E+00	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2839	761877.48	4070001.07	2.84E-06	2.43E-06	9.84E-08	0.00E+00	5.36E-06	4.32E-07	3.75E-07	1.49E-08	0.00E+00	8.22E-07	2.19E-07	1.64E-07	5.40E-09	0.00E+00	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2840	761877.1	4070025.15	3.03E-06	2.60E-06	1.05E-07	0.00E+00	5.74E-06	4.62E-07	4.01E-07	1.60E-08	0.00E+00	8.79E-07	2.34E-07	1.75E-07	5.78E-09	0.00E+00	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2841	761876.72	4070049.23	3.07E-06	2.63E-06	1.06E-07	0.00E+00	5.80E-06	4.67E-07	4.05E-07	1.61E-08	0.00E+00	8.89E-07	2.37E-07	1.77E-07	5.84E-09	0.00E+00	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2842	761876.34	4070073.31	3.14E-06	2.69E-06	1.09E-07	0.00E+00	5.95E-06	4.79E-07	4.15E-07	1.65E-08	0.00E+00	9.11E-07	2.43E-07	1.81E-07	5.99E-09	0.00E+00	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2843	761875.96	4070097.39	3.22E-06	2.76E-06	1.12E-07	0.00E+00	6.10E-06	4.91E-07	4.26E-07	1.69E-08	0.00E+00	9.34E-07	2.49E-07	1.86E-07	6.14E-09	0.00E+00	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2844	761875.58	4070121.47	3.18E-06	2.73E-06	1.11E-07	0.00E+00	6.03E-06	4.85E-07	4.21E-07	1.68E-08	0.00E+00	9.23E-07	2.46E-07	1.84E-07	6.07E-09	0.00E+00	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2845	761875.2	4070145.55	3.08E-06	2.64E-06	1.07E-07	0.00E+00	5.84E-06	4.70E-07	4.08E-07	1.62E-08	0.00E+00	8.94E-07	2.38E-07	1.78E-07	5.88E-09	0.00E+00	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2846	761874.82	4070169.64	2.83E-06	2.42E-06	9.81E-08	0.00E+00	5.35E-06	4.31E-07	3.74E-07	1.49E-08	0.00E+00	8.19E-07	2.18E-07	1.63E-07	5.39E-09	0.00E+00	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2847	761862.27	4069862.44	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	2.48E-08	8.18E-10	0.00E+00	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2848	761854.01	4069904.35	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	5.88E-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	0.00E+00
2849	761853.63	4069928.43	1.07E-06	9.15E-07	3.71E-08	0.00E+00	2.02E-06	1.63E-07	1.41E-07	5.62E-09	0.00E+00	3.09E-07	8.25E-08	6.16E-08	2.04E-09	0.00E+00	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2850	761853.25	4069952.51	1.36E-06	1.16E-06	4.71E-08	0.00E+00	2.57E-06	2.07E-07	1.79E-07	7.13E-09	0.00E+00	3.93E-07	1.05E-07	7.82E-08	2.58E-09	0.00E+00	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2851	761852.87	4069976.59	1.57E-06	1.35E-06	5.45E-08	0.00E+00	2.97E-06	2.39E-07	2.07E-07	8.25E-09	0.00E+00	4.55E-07	1.21E-07	9.05E-08	2.99E-09	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2852	761852.49	4070000.68	1.76E-06	1.51E-06	6.12E-08	0.00E+00	3.33E-06	2.69E-07	2.33E-07	9.27E-09	0.00E+00	5.11E-07	1.36E-07	1.02E-07	3.36E-09	0.00E+00	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2853	761852.11	4070024.76	1.93E-06	1.65E-06	6.68E-08	0.00E+00	3.64E-06	2.93E-07	2.55E-07	1.01E-08	0.00E+00	5.58E-07	1.49E-07	1.11E-07	3.67E-09	0.00E+00	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2854	761851.73	4070048.84	2.01E-06	1.72E-06	6.97E-08	0.00E+00	3.80E-06	3.06E-07	2.65E-07	1.06E-08	0.00E+00	5.82E-07	1.55E-07	1.16E-07	3.83E-09	0.00E+00	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2855	761851.35	4070072.92	2.09E-06	1.79E-06	7.24E-08	0.00E+00	3.95E-06	3.18E-07	2.76E-07	1.10E-08	0.00E+00	6.05E-07	1.61E-07	1.20E-07	3.98E-09	0.00E+00	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2856	761850.97	4070097	2.16E-06	1.85E-06	7.49E-08	0.00E+00	4.08E-06	3.29E-07	2.85E-07	1.13E-08	0.00E+00	6.25E-07	1.67E-07	1.24E-07	4.11E-09	0.00E+00	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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
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+00	0.00E+00	0.00E+00
2898	761777.12	4070023.57	7.75E-07	6.64E-07	2.69E-08	0.00E+00	1.47E-06	1.18E-07	1.02E-07	4.08E-09	0.00E+00	2.25E-07	5.99E-08	4.47E-08	1.48E-09	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2899	761776.74	4070047.65	8.57E-07	7.35E-07	2.98E-08	0.00E+00	1.62E-06	1.31E-07	1.13E-07	4.51E-09	0.00E+00	2.48E-07	6.63E-08	4.95E-08	1.63E-09	0.00E+00	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2900	761776.36	4070071.73	9.28E-07	7.96E-07	3.22E-08	0.00E+00	1.76E-06	1.41E-07	1.23E-07	4.88E-09	0.00E+00	2.69E-07	7.18E-08	5.36E-08	1.77E-09	0.00E+00	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2901	761775.98	4070095.82	9.84E-07	8.43E-07	3.41E-08	0.00E+00	1.86E-06	1.50E-07	1.30E-07	5.17E-09	0.00E+00	2.85E-07	7.60E-08	5.67E-08	1.88E-09	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2902	761775.6	4070119.9	1.02E-06	8.76E-07	3.55E-08	0.00E+00	1.93E-06	1.56E-07	1.35E-07	5.37E-09	0.00E+00	2.96E-07	7.90E-08	5.89E-08	1.95E-09	0.00E+00	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2903	761775.22	4070143.98	1.04E-06	8.94E-07	3.62E-08	0.00E+00	1.97E-06	1.59E-07	1.38E-07	5.48E-09	0.00E+00	3.02E-07	8.06E-08	6.01E-08	1.99E-09	0.00E+00	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2904	761774.84	4070168.06	1.04E-06	8.96E-07	3.63E-08	0.00E+00	1.98E-06	1.59E-07	1.38E-07	5.50E-09	0.00E+00	3.03E-07	8.07E-08	6.03E-08	1.99E-09	0.00E+00	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2905	761763.86	4069857.29	1.89E-07	1.62E-07	6.57E-09	0.00E+00	3.58E-07	2.89E-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
2906	761773.33	4069835.89	1.69E-07	1.45E-07	5.86E-09	0.00E+00	3.20E-07	2.57E-08	2.23E-08	8.89E-10	0.00E+00	4.90E-08	1.31E-08	9.75E-09	3.22E-10	0.00E+00	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2907	761782.79	4069814.49	1.52E-07	1.30E-07	5.27E-09	0.00E+00	2.87E-07	2.31E-08	2.01E-08	7.99E-10	0.00E+00	4.40E-08	1.17E-08	8.76E-09	2.90E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2908	761792.26	4069793.09	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.25E-10	0.00E+00	4.00E-08	1.07E-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	0.00E+00
2909	761823.68	4069763.6	1.34E-07	1.15E-07	4.65E-09	0.00E+00	2.54E-07	2.04E-08	1.77E-08	7.05E-10	0.00E+00	3.89E-08	1.04E-08	7.73E-09	2.56E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2910	761845.64	4069755.51	1.45E-07	1.24E-07	5.04E-09	0.00E+00	2.75E-07	2.21E-08	1.92E-08	7.63E-10	0.00E+00	4.21E-08	1.12E-08	8.37E-09	2.77E-10	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2911	761867.59	4069747.41	1.62E-07	1.39E-07	5.62E-09	0.00E+00	3.06E-07	2.47E-08	2.14E-08	8.51E-10	0.00E+00	4.69E-08	1.25E-08	9.34E-09	3.09E-10	0.00E+00	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2912	761889.55	4069739.32	1.87E-07	1.60E-07	6.48E-09	0.00E+00	3.53E-07	2.85E-08	2.47E-08	9.83E-10	0.00E+00	5.41E-08	1.44E-08	1.08E-08	3.56E-10	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2913	761754.4	4069878.69	2.13E-07	1.83E-07	7.40E-09	0.00E+00	4.03E-07	3.25E-08	2.82E-08	1.12E-09	0.00E+00	6.18E-08	1.65E-08	1.23E-08	4.06E-10	0.00E+00	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2914	761754.02	4069902.77	2.59E-07	2.22E-07	9.00E-09	0.00E+00	4.91E-07	3.95E-08	3.43E-08	1.36E-09	0.00E+00	7.52E-08	2.00E-08	1.50E-08	4.94E-10	0.00E+00	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2915	761753.64	4069926.85	3.16E-07	2.71E-07	1.10E-08	0.00E+00	5.97E-07	4.81E-08	4.17E-08	1.66E-09	0.00E+00	9.15E-08	2.44E-08	1.82E-08	6.02E-10	0.00E+00	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2916	761753.26	4069950.94	3.77E-07	3.24E-07	1.31E-08	0.00E+00	7.14E-07	5.75E-08	4.99E-08	1.99E-09	0.00E+00	1.09E-07	2.92E-08	2.18E-08	7.19E-10	0.00E+00	5.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2917	761752.88	4069975.02	4.49E-07	3.85E-07	1.56E-08	0.00E+00	8.50E-07	6.85E-08	5.94E-08	2.36E-09	0.00E+00	1.30E-07	3.47E-08	2.59E-08	8.57E-10	0.00E+00	6.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2918	761752.5	4069999.1	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	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2919	761752.12	4070023.18	6.02E-07	5.16E-07	2.09E-08	0.00E+00	1.14E-06	9.18E-08	7.96E-08	3.17E-09	0.00E+00	1.75E-07	4.66E-08	3.47E-08	1.15E-09	0.00E+00	8.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2920	761751.74	4070047.26	6.75E-07	5.79E-07	2.34E-08	0.00E+00	1.28E-06	1.03E-07	8.92E-08	3.55E-09	0.00E+00	1.96E-07	5.22E-08	3.89E-08	1.29E-09	0.00E+00	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2921	761751.36	4070071.34	7.40E-07	6.34E-07	2.57E-08	0.00E+00	1.40E-06	1.13E-07	9.78E-08	3.89E-09	0.00E+00	2.14E-07	5.72E-08	4.27E-08	1.41E-09	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2922	761750.98	4070095.42	7.97E-07	6.84E-07	2.77E-08	0.00E+00	1.51E-06	1.21E-07	1.05E-07	4.19E-09	0.00E+00	2.31E-07	6.16E-08	4.60E-08	1.52E-09	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2923	761750.6	4070119.5	8.36E-07	7.17E-07	2.90E-08	0.00E+00	1.58E-06	1.27E-07	1.11E-07	4.40E-09	0.00E+00	2.42E-07	6.46E-08	4.82E-08	1.59E-09	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2924	761750.22	4070143.58	8.62E-07	7.39E-07	2.99E-08	0.00E+00	1.63E-06	1.31E-07	1.14E-07	4.54E-09	0.00E+00	2.50E-07	6.66E-08	4.97E-08	1.64E-09	0.00E+00	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2925	761749.84	4070167.66	8.73E-07	7.49E-07	3.03E-08	0.00E+00	1.65E-06	1.33E-07	1.15E-07	4.59E-09	0.00E+00	2.53E-07	6.75E-08	5.04E-08	1.66E-09	0.00E+00	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2926	761738.6	4069857.49	1.68E-07	1.44E-07	5.82E-09	0.00E+00	3.17E-07	2.55E-08	2.22E-08	8.82E-10	0.00E+00	4.86E-08	1.30E-08	9.67E-09	3.20E-10	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2927	761747.81	4069836.69	1.52E-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	0.00E+00
2928	761757.01	4069815.88	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	1.07E-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	0.00E+00
2929	761766.21	4069795.07	1.26E-07	1.08E-07	4.38E-09	0.00E+00	2.39E-07	1.92E-08	1.67E-08	6.63E-10	0.00E+00	3.65E-08	9.74E-09	7.27E-09	2.40E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2930	761775.41	4069774.27	1.16E-07	9.96E-08	4.03E-09	0.00E+00	2.20E-07	1.77E-08	1.54E-08	6.11E-10	0.00E+00	3.37E-08	8.98E-09	6.70E-09	2.22E-10	0.00E+00	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2931	761805.96	4069745.59	1.13E-07	9.65E-08	3.91E-09	0.00E+00	2.13E-07	1.71E-08	1.49E-08	5.92E-10	0.00E+00	3.26E-08	8.70E-09	6.49E-09	2.14E-10	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2932	761827.31	4069737.73	1.19E-07	1.02E-07	4.13E-09	0.00E+00	2.25E-07	1.81E-08	1.57E-08	6.25E-10	0.00E+00	3.44E-08	9.19E-09	6.86E-09	2.27E-10	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2933	761848.65	4069729.86	1.28E-07	1.10E-07	4.45E-09	0.00E+00	2.42E-07	1.95E-08	1.69E-08	6.74E-10	0.00E+00	3.71E-08	9.90E-09	7.39E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2934	761870	4069721.99	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	4.10E-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	0.00E+00
2935	761891.35	4069714.13	1.61E-07	1.38E-07	5.58E-09	0.00E+00	3.04E-07	2.45E-08	2.13E-08	8.46E-10	0.00E+00	4.66E-08	1.24E-08	9.28E-09	3.07E-10	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2936	761729.4	4069878.3	1.86E-07	1.60E-07	6.46E-09	0.00E+00	3.52E-07	2.83E-08	2.46E-08	9.79E-10	0.00E+00	5.39E-08	1.44E-08	1.07E-08	3.55E-10	0.00E+00	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2937	761729.02	4069902.38	2.22E-07	1.90E-07	7.70E-09	0.00E+00	4.20E-07	3.38E-08	2.93E-08	1.17E-09	0.00E+00	6.43E-08	1.71E-08	1.28E-08	4.23E-10	0.00E+00	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2938	761728.64	4069926.46	2.62E-07	2.24E-07	9.08E-09	0.00E+00	4.95E-07	3.99E-08	3.46E-08	1.38E-09	0.00E+00	7.58E-08	2.02E-08	1.51E-08	4.99E-10	0.00E+00	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2939	761728.26	4069950.54	3.08E-07	2.64E-07	1.07E-08	0.00E+00	5.84E-07	4.70E-08	4.08E-08	1.62E-09	0.00E+00	8.94E-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
2940	761727.88	4069974.62	3.61E-07	3.09E-07	1.25E-08	0.00E+00	6.83E-07	5.50E-08	4.77E-08	1.90E-09	0.00E+00	1.05E-07	2.79E-08	2.08E-08	6.88E-10	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2941	761727.5	4069998.7	4.19E-07	3.60E-07	1.46E-08	0.00E+00	7.93E-07	6.39E-08	5.54E-08	2.21E-09	0.00E+00	1.22E-07	3.24E-08	2.42E-08	7.99E-10	0.00E+00	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2942	761727.12	4070022.78	4.82E-07	4.13E-07	1.67E-08	0.00E+00	9.11E-07	7.34E-08	6.37E-08	2.53E-09	0.00E+00	1.40E-07	3.72E-08	2.78E-08	9.18E-10	0.00E+00	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2943	761726.74	4070046.86	5.45E-07	4.67E-07	1.89E-08	0.00E+00	1.03E-06	8.30E-08	7.20E-08	2.86E-09	0.00E+00	1.58E-07	4.21E-08	3.14E-08	1.04E-09	0.00E+00	7.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2944	761726.36	4070070.95	6.04E-07	5.18E-07	2.10E-08	0.00E+00	1.14E-06	9.20E-08	7.98E-08	3.18E-09	0.00E+00	1.75E-07	4.67E-08	3.48E-08	1.15E-09	0.00E+00	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2945	761725.98	4070095.03	6.51E-07	5.58E-07	2.26E-08	0.00E+00	1.23E-06	9.91E-08	8.60E-08	3.42E-09	0.00E+00	1.89E-07	5.03E-08	3.75E-08	1.24E-09	0.00E+00	8.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2946	761725.6	4070119.11	6.92E-07	5.93E-07	2.40E-08	0.00E+00	1.31E-06	1.05E-07	9.15E-08	3.64E-09	0.00E+00	2.01E-07	5.35E-08	3.99E-08	1.32E-09	0.00E+00	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2947	761725.22	4070143.19	7.21E-07	6.18E-07	2.50E-08	0.00E+00	1.36E-06	1.10E-07	9.53E-08	3.79E-09	0.00E+00	2.09E-07	5.57E-08	4.16E-08	1.37E-09	0.00E+00	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2948	761724.84	4070167.27	7.37E-07	6.32E-07	2.56E-08	0.00E+00	1.40E-06	1.12E-07	9.75E-08	3.88E-09	0.00E+00	2.14E-07	5.70E-08	4.25E-08	1.41E-09	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2949	761713.42	4069857.52	1.50E-07	1.29E-07	5.22E-09	0.00E+00	2.84E-07	2.29E-08	1.99E-08	7.91E-10	0.00E+00	4.36E-08	1.16E-08	8.67E-09	2.87E-10	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2950	761731.45	4069816.76	1.26E-07	1.08E-07	4.37E-09	0.00E+00	2.38E-07	1.92E-08	1.67E-08	6.63E-10	0.00E+00	3.65E-08	9.74E-09	7.27E-09	2.40E-10	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2951	761749.48	4069776	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	0.00E+00
2952	761788.42	4069727.53	9.67E-08	8.29E-08	3.35E-09	0.00E+00	1.83E-07	1.47E-08	1.28E-08	5.08E-10	0.00E+00	2.80E-08	7.47E-09	5.58E-09	1.84E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2953	761830.24	4069712.11	1.06E-07	9.11E-08	3.69E-09	0.00E+00	2.01E-07	1.62E-08	1.40E-08	5.59E-10	0.00E+00	3.08E-08	8.21E-09	6.13E-09	2.03E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2954	761872.06	4069696.7	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	2.39E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2955	761704.02	4069901.99	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
2956	761703.64	4069926.07	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	0.00E+00
2957	761703.26	4069950.15	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	7.67E-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
2958	761702.88	4069974.23	3.09E-07	2.65E-07	1.07E-08	0.00E+00	5.84E-07	4.70E-08	4.08E-08	1.62E-09	0.00E+00	8.95E-08	2.39E-08	1.78E-08	5.88E-10	0.00E+00	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2959	761702.5	4069998.31	3.56E-07	3.06E-07	1.24E-08	0.00E+00	6.74E-07	5.43E-08	4.71E-08	1.87E-09	0.00E+00	1.03E-07	2.75E-08	2.06E-08	6.79E-10	0.00E+00	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2960	761702.12	4070022.39	4.04E-07	3.46E-07	1.40E-08	0.00E+00	7.64E-07	6.15E-08	5.34E-08	2.12E-09	0.00E+00	1.17E-07	3.12E-08	2.33E-08	7.70E-10	0.00E+00	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2961	761701.74	4070046.47	4.51E-07	3.87E-07	1.56E-08	0.00E+00	8.53E-07	6.87E-08	5.96E-08	2.37E-09	0.00E+00	1.31E-07	3.48E-08	2.60E-08	8.59E-10	0.00E+00	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2962	761701.36	4070070.55	5.01E-07	4.30E-07	1.74E-08	0.00E+00	9.48E-07	7.64E-08	6.63E-08	2.64E-09	0.00E+00	1.45E-07	3.87E-08	2.89E-08	9.55E-10	0.00E+00	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2963	761700.98	4070094.63	5.43E-07	4.65E-07	1.88E-08	0.00E+00	1.03E-06	8.27E-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	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2964	761700.6	4070118.71	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	0.00E+00
2965	761700.22	4070142.79	6.04E-07	5.18E-07	2.10E-08	0.00E+00	1.14E-06	9.21E-08	7.99E-08	3.18E-09	0.00E+00	1.75E-07	4.67E-08	3.49E-08	1.15E-09	0.00E+00	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2966	761699.84	4070166.87	6.28E-07	5.39E-07	2.18E-08	0.00E+00	1.19E-06	9.57E-08	8.31E-08	3.31E-09	0.00E+00	1.82E-07	4.86E-08	3.62E-08	1.20E-09	0.00E+00	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2967	761663.18	4069857.3	1.25E-07	1.07E-07	4.33E-09	0.00E+00	2.36E-07	1.90E-08	1.65E-08	6.57E-10	0.00E+00	3.62E-08	9.65E-09	7.20E-09	2.38E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2968	761680.7	4069817.67	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	0.00E+00
2969	761698.23	4069778.04	9.41E-08	8.07E-08	3.27E-09	0.00E+00	1.78E-07	1.43E-08	1.24E-08	4.95E-10	0.00E+00	2.73E-08	7.27E-09	5.43E-09	1.79E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2970	761715.76	4069738.41	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	4.80E-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
2971	761753.62	4069691.28	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	5.90E-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	0.00E+00
2972	761794.28	4069676.3	8.01E-08	6.87E-08	2.78E-09	0.00E+00	1.52E-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
2973	761834.94	4069661.31	8.70E-08	7.46E-08	3.02E-09	0.00E+00	1.65E-07	1.32E-08	1.15E-08	4.57E-10	0.00E+00	2.52E-08	6.72E-09	5.02E-09	1.66E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2974	761875.6	4069646.33	1.00E-07	8.60E-08	3.48E-09	0.00E+00	1.90E-07	1.53E-08	1.33E-08	5.28E-10	0.00E+00	2.91E-08	7.75E-09	5.79E-09	1.91E-10	0.00E+00	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2975	761654.03	4069901.2	1.54E-07	1.32E-07	5.35E-09	0.00E+00	2.92E-07	2.35E-08	2.04E-08	8.11E-10	0.00E+00	4.47E-08	1.19E-08	8.90E-09	2.94E-10	0.00E+00	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2976	761653.65	4069925.28	1.77E-07	1.52E-07	6.13E-09	0.00E+00	3.34E-07	2.69E-08	2.34E-08	9.30E-10	0.00E+00	5.12E-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
2977	761653.27	4069949.36	2.02E-07	1.74E-07	7.03E-09	0.00E+00	3.83E-07	3.09E-08	2.68E-08	1.07E-09	0.00E+00	5.87E-08	1.56E-08	1.17E-08	3.86E-10	0.00E+00	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2978	761652.89	4069973.44	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	1.34E-08	4.41E-10	0.00E+00	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2979	761652.51	4069997.52	2.63E-07	2.26E-07	9.14E-09	0.00E+00	4.98E-07	4.01E-08	3.48E-08	1.39E-09	0.00E+00	7.63E-08	2.04E-08	1.52E-08	5.02E-10	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2980	761652.13	4070021.6	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	0.00E+00
2981	761651.75	4070045.68	3.31E-07	2.83E-07	1.15E-08	0.00E+00	6.26E-07	5.04E-08	4.37E-08	1.74E-09	0.00E+00	9.58E-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	0.00E+00
2982	761651.37	4070069.76	3.63E-07	3.12E-07	1.26E-08	0.00E+00	6.88E-07	5.54E-08	4.80E-08	1.91E-09	0.00E+00	1.05E-07	2.81E-08	2.10E-08	6.93E-10	0.00E+00	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2983	761650.99	4070093.84	3.94E-07	3.38E-07	1.37E-08	0.00E+00	7.45E-07	6.00E-08	5.20E-08	2.07E-09	0.00E+00	1.14E-07	3.04E-08	2.27E-08	7.50E-10	0.00E+00	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2984	761650.61	4070117.92	4.21E-07	3.61E-07	1.46E-08	0.00E+00	7.97E-07	6.42E-08	5.57E-08	2.22E-09	0.00E+00	1.22E-07	3.25E-08	2.43E-08	8.03E-10	0.00E+00	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2985	761650.23	4070142	4.47E-07	3.83E-07	1.55E-08	0.00E+00	8.46E-07	6.81E-08	5.91E-08	2.35E-09	0.00E+00	1.30E-07	3.46E-08	2.58E-08	8.52E-10	0.00E+00	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2986	761649.85	4070166.09	4.66E-07	4.00E-07	1.62E-08	0.00E+00	8.83E-07	7.11E-08	6.17E-08	2.45E-09	0.00E+00	1.35E-07	3.61E-08	2.69E-08	8.89E-10	0.00E+00	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3030	761707.54	4069610.13	5.48E-08	4.70E-08	1.90E-09	0.00E+00	1.04E-07	8.35E-09	7.25E-09	2.88E-10	0.00E+00	1.59E-08	4.24E-09	3.16E-09	1.04E-10	0.00E+00	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3031	761728.89	4069602.26	5.53E-08	4.74E-08	1.92E-09	0.00E+00	1.05E-07	8.43E-09	7.31E-09	2.91E-10	0.00E+00	1.60E-08	4.28E-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	0.00E+00
3032	761750.23	4069594.39	5.57E-08	4.78E-08	1.93E-09	0.00E+00	1.05E-07	8.49E-09	7.37E-09	2.93E-10	0.00E+00	1.62E-08	4.31E-09	3.21E-09	1.06E-10	0.00E+00	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3033	761771.58	4069586.53	5.64E-08	4.84E-08	1.96E-09	0.00E+00	1.07E-07	8.60E-09	7.46E-09	2.97E-10	0.00E+00	1.64E-08	4.36E-09	3.25E-09	1.08E-10	0.00E+00	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3034	761792.93	4069578.66	5.75E-08	4.93E-08	2.00E-09	0.00E+00	1.09E-07	8.76E-09	7.60E-09	3.03E-10	0.00E+00	1.67E-08	4.45E-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
3035	761814.27	4069570.79	5.91E-08	5.07E-08	2.05E-09	0.00E+00	1.12E-07	9.00E-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	0.00E+00
3036	761835.62	4069562.92	6.15E-08	5.27E-08	2.13E-09	0.00E+00	1.16E-07	9.37E-09	8.13E-09	3.24E-10	0.00E+00	1.78E-08	4.75E-09	3.55E-09	1.17E-10	0.00E+00	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3037	761856.97	4069555.06	6.49E-08	5.56E-08	2.25E-09	0.00E+00	1.23E-07	9.88E-09	8.58E-09	3.41E-10	0.00E+00	1.88E-08	5.01E-09	3.74E-09	1.24E-10	0.00E+00	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3038	761878.31	4069547.19	6.93E-08	5.94E-08	2.40E-09	0.00E+00	1.31E-07	1.06E-08	9.16E-09	3.64E-10	0.00E+00	2.01E-08	5.35E-09	4.00E-09	1.32E-10	0.00E+00	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3039	761899.66	4069539.32	7.47E-08	6.40E-08	2.59E-09	0.00E+00	1.41E-07	1.14E-08	9.88E-09	3.93E-10	0.00E+00	2.17E-08	5.77E-09	4.31E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3040	761554.42	4069875.54	9.90E-08	8.49E-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	7.65E-09	5.71E-09	1.89E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3041	761554.04	4069899.62	1.09E-07	9.39E-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	0.00E+00
3042	761553.66	4069923.7	1.21E-07	1.04E-07	4.21E-09	0.00E+00	2.30E-07	1.85E-08	1.61E-08	6.39E-10	0.00E+00	3.52E-08	9.39E-09	7.00E-09	2.31E-10	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3043	761553.28	4069947.78	1.35E-07	1.15E-07	4.67E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.08E-10	0.00E+00	3.90E-08	1.04E-08	7.76E-09	2.57E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3044	761552.9	4069971.86	1.49E-07	1.28E-07	5.18E-09	0.00E+00	2.82E-07	2.27E-08	1.97E-08	7.85E-10	0.00E+00	4.32E-08	1.15E-08	8.60E-09	2.84E-10	0.00E+00	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3045	761552.52	4069995.94	1.65E-07	1.41E-07	5.73E-09	0.00E+00	3.12E-07	2.51E-08	2.18E-08	8.68E-10	0.00E+00	4.78E-08	1.28E-08	9.52E-09	3.15E-10	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3046	761552.14	4070020.02	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	1.41E-08	1.05E-08	3.47E-10	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3047	761551.76	4070044.1	1.99E-07	1.71E-07	6.90E-09	0.00E+00	3.76E-07	3.03E-08	2.63E-08	1.05E-09	0.00E+00	5.76E-08	1.54E-08	1.15E-08	3.79E-10	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3048	761551.38	4070068.18	2.17E-07	1.86E-07	7.52E-09	0.00E+00	4.10E-07	3.30E-08	2.86E-08	1.14E-09	0.00E+00	6.28E-08	1.67E-08	1.25E-08	4.13E-10	0.00E+00	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3049	761551	4070092.27	2.34E-07	2.00E-07	8.11E-09	0.00E+00	4.42E-07	3.56E-08	3.09E-08	1.23E-09	0.00E+00	6.78E-08	1.81E-08	1.35E-08	4.46E-10	0.00E+00	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3050	761550.62	4070116.35	2.50E-07	2.15E-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	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3051	761550.24	4070140.43	2.66E-07	2.28E-07	9.22E-09	0.00E+00	5.03E-07	4.05E-08	3.51E-08	1.40E-09	0.00E+00	7.70E-08	2.05E-08	1.53E-08	5.06E-10	0.00E+00	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3052	761549.86	4070164.51	2.80E-07	2.40E-07	9.70E-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	0.00E+00
3053	761514.14	4069852.8	8.26E-08	7.08E-08	2.87E-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
3054	761523.85	4069830.85	7.82E-08	6.71E-08	2.71E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.11E-10	0.00E+00	2.27E-08	6.04E-09	4.51E-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
3055	761533.55	4069808.9	7.44E-08	6.38E-08	2.58E-09	0.00E+00	1.41E-07	1.13E-08	9.84E-09	3.91E-10	0.00E+00	2.16E-08	5.75E-09	4.29E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3056	761543.26	4069786.95	7.04E-08	6.04E-08	2.44E-09	0.00E+00	1.33E-07	1.07E-08	9.31E-09	3.71E-10	0.00E+00	2.04E-08	5.44E-09	4.06E-09	1.34E-10	0.00E+00	9.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3057	761552.97	4069765	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	5.12E-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
3058	761562.68	4069743.05	6.30E-08	5.40E-08	2.19E-09	0.00E+00	1.19E-07	9.60E-09	8.33E-09	3.31E-10	0.00E+00	1.83E-08	4.87E-09	3.63E-09	1.20E-10	0.00E+00	8.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3059	761572.38	4069721.1	6.01E-08	5.15E-08	2.08E-09	0.00E+00	1.14E-07	9.15E-09	7.94E-09	3.16E-10	0.00E+00	1.74E-08	4.64E-09	3.46E-09	1.15E-10	0.00E+00	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3060	761582.09	4069699.15	5.69E-08	4.88E-08	1.97E-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	0.00E+00
3061	761591.8	4069677.21	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+00	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3062	761601.51	4069655.26	5.20E-08	4.46E-08	1.80E-09	0.00E+00	9.84E-08	7.92E-09	6.87E-09	2.74E-10	0.00E+00	1.51E-08	4.02E-09	3.00E-09	9.91E-11	0.00E+00	7.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3063	761611.21	4069633.31	5.01E-08	4.30E-08	1.74E-09	0.00E+00	9.49E-08	7.64E-09	6.63E-09	2.64E-10	0.00E+00	1.45E-08	3.88E-09	2.89E-09	9.56E-11	0.00E+00	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3064	761620.92	4069611.36	4.86E-08	4.16E-08	1.69E-09	0.00E+00	9.19E-08	7.40E-09	6.42E-09	2.55E-10	0.00E+00	1.41E-08	3.75E-09	2.80E-09	9.26E-11	0.00E+00	6.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3065	761653.15	4069581.11	4.76E-08	4.08E-08	1.65E-09	0.00E+00	9.00E-08	7.25E-09	6.29E-09	2.50E-10	0.00E+00	1.38E-08	3.68E-09	2.74E-09	9.07E-11	0.00E+00	6.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3066	761675.67	4069572.81	4.80E-08	4.11E-08	1.67E-09	0.00E+00	9.08E-08	7.31E-09	6.34E-09	2.52E-10	0.00E+00	1.39E-08	3.71E-09	2.77E-09	9.15E-11	0.00E+00	6.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3067	761698.19	4069564.51	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
3068	761720.71	4069556.21	4.86E-08	4.17E-08	1.69E-09	0.00E+00	9.19E-08	7.40E-09	6.42E-09	2.56E-10	0.00E+00	1.41E-08	3.76E-09	2.80E-09	9.26E-11	0.00E+00	6.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3069	761743.23	4069547.91	4.88E-08	4.18E-08	1.69E-09	0.00E+00	9.23E-08	7.43E-09	6.45E-09	2.57E-10	0.00E+00	1.41E-08	3.77E-09	2.81E-09	9.30E-11	0.00E+00	6.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3070	761765.75	4069539.61	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
3071	761788.27	4069531.31	4.99E-08	4.28E-08	1.73E-09	0.00E+00	9.45E-08	7.61E-09	6.60E-09	2.63E-10	0.00E+00	1.45E-08	3.86E-09	2.88E-09	9.52E-11	0.00E+00	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3072	761810.79	4069523.01	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	0.00E+00
3073	761833.3	4069514.71	5.33E-08	4.57E-08	1.85E-09	0.00E+00	1.01E-07	8.12E-09	7.05E-09	2.80E-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	0.00E+00
3074	761855.82	4069506.41	5.60E-08	4.80E-08	1.94E-09	0.00E+00	1.06E-07	8.53E-09	7.40E-09	2.94E-10	0.00E+00	1.62E-08	4.33E-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	0.00E+00
3075	761878.34	4069498.11	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
3076	761900.86	4069489.81	6.36E-08	5.45E-08	2.21E-09	0.00E+00	1.20E-07	9.69E-09	8.41E-09	3.35E-10	0.00E+00	1.84E-08	4.92E-09	3.67E-09	1.21E-10	0.00E+00	8.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3077	761504.43	4069874.75	8.74E-08	7.50E-08	3.03E-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	0.00E+00
3078	761504.05	4069898.83	9.57E-08	8.21E-08	3.32E-09	0.00E+00	1.81E-07	1.46E-08	1.27E-08	5.03E-10	0.00E+00	2.77E-08	7.40E-09	5.52E-09	1.82E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3079	761503.67	4069922.91	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	6.06E-09	2.00E-10	0.00E+00	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3080	761503.29	4069946.99	1.15E-07	9.85E-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	8.88E-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	0.00E+00
3081	761502.91	4069971.07	1.26E-07	1.08E-07	4.36E-09	0.00E+00	2.38E-07	1.92E-08	1.66E-08	6.62E-10	0.00E+00	3.64E-08	9.72E-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	0.00E+00
3082	761502.53	4069995.15	1.38E-07	1.18E-07	4.77E-09	0.00E+00	2.60E-07	2.10E-08	1.82E-08	7.24E-10	0.00E+00	3.99E-08	1.06E-08	7.94E-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
3083	761502.15	4070019.23	1.50E-07	1.29E-07	5.21E-09	0.00E+00	2.84E-07	2.29E-08	1.98E-08	7.90E-10	0.00E+00	4.35E-08	1.16E-08	8.66E-09	2.86E-10	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3084	761501.77	4070043.31	1.63E-07	1.40E-07	5.66E-09	0.00E+00	3.09E-07	2.49E-08	2.16E-08	8.58E-10	0.00E+00	4.73E-08	1.26E-08	9.41E-09	3.11E-10	0.00E+00	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3085	761501.39	4070067.4	1.77E-07	1.52E-07	6.14E-09	0.00E+00	3.34E-07	2.69E-08	2.34E-08	9.30E-10	0.00E+00	5.12E-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
3086	761501.01	4070091.48	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	0.00E+00
3087	761500.63	4070115.56	2.04E-07	1.75E-07	7.06E-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	1.17E-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
3088	761500.25	4070139.64	2.16E-07	1.85E-07	7.48E-09	0.00E+00	4.08E-07	3.29E-08	2.85E-08	1.13E-09	0.00E+00	6.25E-08	1.67E-08	1.24E-08	4.11E-10	0.00E+00	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3089	761499.87	4070163.72	2.27E-07	1.94E-07	7.86E-09	0.00E+00	4.29E-07	3.45E-08	3.00E-08	1.19E-09	0.00E+00	6.57E-08	1.75E-08	1.31E-08	4.32E-10	0.00E+00	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3090	761463.9	4069852.56	7.45E-08	6.39E-08	2.59E-09	0.00E+00	1.41E-07	1.13E-08	9.85E-09	3.92E-10	0.00E+00	2.16E-08	5.76E-09	4.30E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3091	761473.37	4069831.16	7.10E-08	6.09E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.38E-09	3.73E-10	0.00E+00	2.06E-08	5.49E-09	4.09E-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
3092	761482.83	4069809.76	6.79E-08	5.82E-08	2.36E-09	0.00E+00	1.29E-07	1.03E-08	8.98E-09	3.57E-10	0.00E+00	1.97E-08	5.25E-09	3.92E-09	1.29E-10	0.00E+00	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3093	761492.3	4069788.36	6.53E-08	5.60E-08	2.27E-09	0.00E+00	1.23E-07	9.94E-09	8.63E-09	3.43E-10	0.00E+00	1.89E-08	5.04E-09	3.76E-09	1.24E-10	0.00E+00	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3094	761501.76	4069766.96	6.20E-08	5.32E-08	2.15E-09	0.00E+00	1.17E-07	9.45E-09	8.20E-09	3.26E-10	0.00E+00	1.80E-08	4.79E-09	3.58E-09	1.18E-10	0.00E+00	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3095	761511.23	4069745.56	5.91E-08	5.06E-08	2.05E-09	0.00E+00	1.12E-07	9.00E-09	7.81E-09	3.11E-10	0.00E+00	1.71E-08	4.56E-09	3.41E-09	1.13E-10	0.00E+00	8.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3096	761520.69	4069724.16	5.64E-08	4.84E-08	1.96E-09	0.00E+00	1.07E-07	8.60E-09	7.46E-09	2.97E-10	0.00E+00	1.64E-08	4.36E-09	3.26E-09	1.08E-10	0.00E+00	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3097	761530.16	4069702.76	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	0.00E+00
3098	761539.62	4069681.35	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	0.00E+00
3099	761549.09	4069659.95	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	0.00E+00
3100	761558.55	4069638.55	4.71E-08	4.04E-08	1.63E-09	0.00E+00	8.91E-08	7.18E-09	6.23E-09	2.48E-10	0.00E+00	1.37E-08	3.64E-09	2.72E-09	8.98E-11	0.00E+00	6.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3101	761568.02	4069617.15	4.57E-08	3.92E-08	1.59E-09	0.00E+00	8.64E-08	6.96E-09	6.04E-09	2.40E-10	0.00E+00	1.32E-08	3.53E-09	2.63E-09	8.71E-11	0.00E+00	6.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3102	761577.48	4069595.75	4.45E-08	3.82E-08	1.55E-09	0.00E+00	8.43E-08	6.79E-09	5.89E-09	2.34E-10	0.00E+00	1.29E-08	3.44E-09	2.57E-09	8.49E-11	0.00E+00	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3103	761586.95	4069574.35	4.34E-08	3.73E-08	1.51E-09	0.00E+00	8.22E-08	6.62E-09	5.74E-09	2.29E-10	0.00E+00	1.26E-08	3.36E-09	2.51E-09	8.28E-11	0.00E+00	5.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3104	761618.37	4069544.86	4.28E-08	3.67E-08	1.48E-09	0.00E+00	8.09E-08	6.52E-09	5.66E-09	2.25E-10	0.00E+00	1.24E-08	3.31E-09	2.47E-09	8.15E-11	0.00E+00	5.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3105	761640.32	4069536.77	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	0.00E+00
3106	761662.28	4069528.67	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
3107	761684.24	4069520.58	4.31E-08	3.69E-08	1.50E-09	0.00E+00	8.15E-08	6.56E-09	5.70E-09	2.27E-10	0.00E+00	1.25E-08	3.33E-09	2.48E-09	8.21E-11	0.00E+00	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3108	761706.19	4069512.49	4.29E-08	3.68E-08	1.49E-09	0.00E+00	8.12E-08	6.54E-09	5.67E-09	2.26E-10	0.00E+00	1.24E-08	3.32E-09	2.48E-09	8.18E-11	0.00E+00	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3109	761728.15	4069504.4	4.33E-08	3.71E-08	1.50E-09	0.00E+00	8.19E-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
3110	761750.11	4069496.31	4.33E-08	3.71E-08	1.50E-09	0.00E+00	8.19E-08	6.60E-09	5.72E-09	2.28E-10	0.00E+00	1.25E-08	3.35E-09	2.50E-09	8.25E-11	0.00E+00	5.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3111	761772.06	4069488.21	4.37E-08	3.74E-08	1.52E-09	0.00E+00	8.26E-08	6.65E-09	5.77E-09	2.30E-10	0.00E+00	1.27E-08	3.37E-09	2.52E-09	8.32E-11	0.00E+00	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3112	761794.02	4069480.12	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	0.00E+00
3113	761815.98	4069472.03	4.58E-08	3.93E-08	1.59E-09	0.00E+00	8.67E-08	6.99E-09	6.06E-09	2.41E-10	0.00E+00	1.33E-08	3.54E-09	2.64E-09	8.74E-11	0.00E+00	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3114	761837.93	4069463.94	4.74E-08	4.06E-08	1.64E-09	0.00E+00	8.96E-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	6.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3115	761859.89	4069455.84	4.95E-08	4.24E-08	1.72E-09	0.00E+00	9.37E-08	7.54E-09	6.54E-09	2.60E-10	0.00E+00	1.43E-08	3.83E-09	2.86E-09	9.44E-11	0.00E+00	6.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3116	761881.85	4069447.75	5.21E-08	4.47E-08	1.81E-09	0.00E+00	9.87E-08	7.94E-09	6.89E-09	2.74E-10	0.00E+00	1.51E-08	4.03E-09	3.01E-09	9.94E-11	0.00E+00	7.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	1.07E-08	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
3145	761543.63	4069558.46	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	5.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3160	761863.56	4069405.43	4.41E-08	3.78E-08	1.53E-09	0.00E+00	8.34E-08	6.72E-09	5.83E-09	2.32E-10	0.00E+00	1.28E-08	3.41E-09	2.54E-09	8.40E-11	0.00E+00	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3161	761885.08	4069397.49	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
3162	761906.61	4069389.56	4.85E-08	4.16E-08	1.68E-09	0.00E+00	9.18E-08	7.39E-09	6.41E-09	2.55E-10	0.00E+00	1.41E-08	3.75E-09	2.80E-09	9.25E-11	0.00E+00	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3163	761404.44	4069873.17	7.15E-08	6.13E-08	2.48E-09	0.00E+00	1.35E-07	1.09E-08	9.45E-09	3.76E-10	0.00E+00	2.07E-08	5.53E-09	4.12E-09	1.36E-10	0.00E+00	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3164	761404.06	4069897.25	7.69E-08	6.59E-08	2.67E-09	0.00E+00	1.45E-07	1.17E-08	1.02E-08	4.04E-10	0.00E+00	2.23E-08	5.94E-09	4.43E-09	1.47E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3165	761403.68	4069921.33	8.24E-08	7.07E-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	6.37E-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	0.00E+00
3166	761403.3	4069945.41	8.90E-08	7.64E-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
3167	761402.92	4069969.49	9.58E-08	8.21E-08	3.32E-09	0.00E+00	1.81E-07	1.46E-08	1.27E-08	5.04E-10	0.00E+00	2.78E-08	7.40E-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	0.00E+00
3168	761402.54	4069993.58	1.03E-07	8.83E-08	3.57E-09	0.00E+00	1.95E-07	1.57E-08	1.36E-08	5.42E-10	0.00E+00	2.98E-08	7.96E-09	5.94E-09	1.96E-10	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3169	761402.16	4070017.66	1.11E-07	9.47E-08	3.84E-09	0.00E+00	2.09E-07	1.68E-08	1.46E-08	5.81E-10	0.00E+00	3.20E-08	8.54E-09	6.37E-09	2.11E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3170	761401.78	4070041.74	1.18E-07	1.01E-07	4.10E-09	0.00E+00	2.24E-07	1.80E-08	1.56E-08	6.22E-10	0.00E+00	3.43E-08	9.14E-09	6.82E-09	2.25E-10	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3171	761401.4	4070065.82	1.27E-07	1.09E-07	4.40E-09	0.00E+00	2.40E-07	1.93E-08	1.68E-08	6.67E-10	0.00E+00	3.67E-08	9.79E-09	7.31E-09	2.42E-10	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3172	761401.02	4070089.9	1.35E-07	1.16E-07	4.70E-09	0.00E+00	2.56E-07	2.06E-08	1.79E-08	7.12E-10	0.00E+00	3.92E-08	1.05E-08	7.80E-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
3173	761400.64	4070113.98	1.44E-07	1.23E-07	4.99E-09	0.00E+00	2.72E-07	2.19E-08	1.90E-08	7.56E-10	0.00E+00	4.16E-08	1.11E-08	8.29E-09	2.74E-10	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3174	761400.26	4070138.06	1.52E-07	1.30E-07	5.27E-09	0.00E+00	2.87E-07	2.31E-08	2.01E-08	7.98E-10	0.00E+00	4.40E-08	1.17E-08	8.75E-09	2.89E-10	0.00E+00	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3175	761399.88	4070162.14	1.59E-07	1.37E-07	5.53E-09	0.00E+00	3.01E-07	2.43E-08	2.11E-08	8.38E-10	0.00E+00	4.62E-08	1.23E-08	9.19E-09	3.04E-10	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3176	761364.09	4069850.59	6.31E-08	5.41E-08	2.19E-09	0.00E+00	1.19E-07	9.61E-09	8.34E-09	3.32E-10	0.00E+00	1.83E-08	4.87E-09	3.64E-09	1.20E-10	0.00E+00	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3177	761373.73	4069828.79	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	0.00E+00
3178	761383.37	4069806.99	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	0.00E+00
3179	761393.01	4069785.19	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	0.00E+00
3180	761402.65	4069763.4	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
3181	761412.29	4069741.6	5.22E-08	4.47E-08	1.81E-09	0.00E+00	9.87E-08	7.95E-09	6.90E-09	2.74E-10	0.00E+00	1.51E-08	4.03E-09	3.01E-09	9.94E-11	0.00E+00	7.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3182	761421.93	4069719.8	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	1.46E-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
3183	761431.57	4069698.01	4.82E-08	4.13E-08	1.67E-09	0.00E+00	9.11E-08	7.34E-09	6.37E-09	2.53E-10	0.00E+00	1.40E-08	3.72E-09	2.78E-09	9.18E-11	0.00E+00	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3184	761441.21	4069676.21	4.61E-08	3.95E-08	1.60E-09	0.00E+00	8.72E-08	7.03E-09	6.10E-09	2.43E-10	0.00E+00	1.34E-08	3.56E-09	2.66E-09	8.79E-11	0.00E+00	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3185	761450.85	4069654.41	4.43E-08	3.80E-08	1.54E-09	0.00E+00	8.39E-08	6.75E-09	5.86E-09	2.33E-10	0.00E+00	1.28E-08	3.43E-09	2.56E-09	8.45E-11	0.00E+00	6.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3186	761460.49	4069632.62	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	0.00E+00
3187	761470.13	4069610.82	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	0.00E+00
3188	761479.77	4069589.02	3.96E-08	3.39E-08	1.37E-09	0.00E+00	7.49E-08	6.03E-09	5.23E-09	2.08E-10	0.00E+00	1.15E-08	3.06E-09	2.28E-09	7.54E-11	0.00E+00	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3189	761489.41	4069567.23	3.82E-08	3.28E-08	1.33E-09	0.00E+00	7.23E-08	5.83E-09	5.05E-09	2.01E-10	0.00E+00	1.11E-08	2.96E-09	2.21E-09	7.29E-11	0.00E+00	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3190	761499.05	4069545.43	3.73E-08	3.20E-08	1.30E-09	0.00E+00	7.06E-08	5.69E-09	4.93E-09	1.96E-10	0.00E+00	1.08E-08	2.88E-09	2.15E-09	7.11E-11	0.00E+00	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3191	761508.69	4069523.63	3.66E-08	3.14E-08	1.27E-09	0.00E+00	6.92E-08	5.57E-09	4.84E-09	1.92E-10	0.00E+00	1.06E-08	2.83E-09	2.11E-09	6.97E-11	0.00E+00	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3192	761518.33	4069501.84	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.80E-08	5.47E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.07E-09	6.85E-11	0.00E+00	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3193	761550.34	4069471.8	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	0.00E+00
3194	761572.7	4069463.55	3.58E-08	3.07E-08	1.24E-09	0.00E+00	6.78E-08	5.46E-09	4.74E-09	1.89E-10	0.00E+00	1.04E-08	2.77E-09	2.07E-09	6.83E-11	0.00E+00	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3195	761595.06	4069455.31	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	0.00E+00
3196	761617.43	4069447.07	3.61E-08	3.10E-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	0.00E+00
3197	761639.79	4069438.83	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.80E-08	5.47E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.07E-09	6.85E-11	0.00E+00	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3198	761662.15	4069430.59	3.58E-08	3.07E-08	1.24E-09	0.00E+00	6.76E-08	5.45E-09	4.73E-09	1.88E-10	0.00E+00	1.04E-08	2.76E-09	2.06E-09	6.82E-11	0.00E+00	4.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3199	761684.51	4069422.34	3.54E-08	3.04E-08	1.23E-09	0.00E+00	6.70E-08	5.39E-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	0.00E+00
3200	761706.88	4069414.1	3.51E-08	3.01E-08	1.22E-09	0.00E+00	6.63E-08	5.34E-09	4.64E-09	1.84E-10	0.00E+00	1.02E-08	2.71E-09	2.02E-09	6.68E-11	0.00E+00	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3201	761729.24	4069405.86	3.50E-08	3.00E-08	1.21E-09	0.00E+00	6.62E-08	5.33E-09	4.63E-09	1.84E-10	0.00E+00	1.01E-08	2.70E-09	2.02E-09	6.67E-11	0.00E+00	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3202	761751.6	4069397.62	3.51E-08	3.01E-08	1.22E-09	0.00E+00	6.65E-08	5.35E-09	4.64E-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	0.00E+00
3203	761773.97	4069389.38	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	0.00E+00
3204	761796.33	4069381.13	3.62E-08	3.10E-08	1.26E-09	0.00E+00	6.85E-08	5.52E-09	4.79E-09	1.90E-10	0.00E+00	1.05E-08	2.80E-09	2.09E-09	6.90E-11	0.00E+00	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3205	761818.69	4069372.89	3.70E-08	3.18E-08	1.29E-09	0.00E+00	7.01E-08	5.64E-09	4.90E-09	1.95E-10	0.00E+00	1.07E-08	2.86E-09	2.14E-09	7.06E-11	0.00E+00	5.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3206	761841.06	4069364.65	3.80E-08	3.26E-08	1.32E-09	0.00E+00	7.20E-08	5.80E-09	5.03E-09	2.00E-10	0.00E+00	1.10E-08	2.94E-09	2.19E-09	7.25E-11	0.00E+00	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3207	761863.42	4069356.41	3.93E-08	3.37E-08	1.36E-09	0.00E+00	7.43E-08	5.98E-09	5.19E-09	2.07E-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
3208	761885.78	4069348.17	4.09E-08	3.50E-08	1.42E-09	0.00E+00	7.73E-08	6.23E-09	5.40E-09	2.15E-10	0.00E+00	1.18E-08	3.16E-09	2.36E-09	7.79E-11	0.00E+00	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3209	761908.15	4069339.92	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	0.00E+00
3210	761354.45	4069872.38	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	0.00E+00
3211	761354.07	4069896.46	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	5.42E-09	4.05E-09	1.34E-10	0.00E+00	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3212	761353.69	4069920.54	7.49E-08	6.42E-08	2.60E-09	0.00E+00	1.42E-07	1.14E-08	9.90E-09	3.94E-10	0.00E+00	2.17E-08	5.79E-09	4.32E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3213	761353.31	4069944.62	8.02E-08	6.87E-08	2.78E-09	0.00E+00	1.52E-07	1.22E-08	1.06E-08	4.22E-10	0.00E+00	2.32E-08	6.20E-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
3214	761352.93	4069968.71	8.54E-08	7.33E-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	6.60E-09	4.93E-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
3215	761352.55	4069992.79	9.10E-08	7.81E-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	7.04E-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	0.00E+00
3216	761352.17	4070016.87	9.70E-08	8.31E-08	3.37E-09	0.00E+00	1.83E-07	1.48E-08	1.28E-08	5.10E-10	0.00E+00	2.81E-08	7.50E-09	5.59E-09	1.85E-10	0.00E+00	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3217	761351.79	4070040.95	1.03E-07	8.85E-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	7.98E-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
3218	761351.41	4070065.03	1.10E-07	9.42E-08	3.81E-09	0.00E+00	2.08E-07	1.67E-08	1.45E-08	5.78E-10	0.00E+00	3.19E-08	8.49E-09	6.34E-09	2.10E-10	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3219	761351.03	4070089.11	1.17E-07	1.00E-07	4.06E-09	0.00E+00	2.21E-07	1.78E-08	1.54E-08	6.15E-10	0.00E+00	3.39E-08	9.03E-09	6.74E-09	2.23E-10	0.00E+00	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3220	761350.65	4070113.19	1.24E-07	1.06E-07	4.30E-09	0.00E+00	2.35E-07	1.89E-08	1.64E-08	6.52E-10	0.00E+00	3.59E-08	9.58E-09	7.15E-09	2.36E-10	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3221	761350.27	4070137.27	1.31E-07	1.12E-07	4.55E-09	0.00E+00	2.48E-07	2.00E-08	1.73E-08	6.89E-10	0.00E+00	3.80E-08	1.01E-08	7.56E-09	2.50E-10	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3222	761349.89	4070161.35	1.38E-07	1.18E-07	4.78E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.24E-10	0.00E+00	3.99E-08	1.06E-08	7.94E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3223	761313.92	4069850.19	5.81E-08	4.98E-08	2.02E-09	0.00E+00	1.10E-07	8.85E-09	7.68E-09	3.06E-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	0.00E+00
3224	761323.38	4069828.79	5.61E-08	4.81E-08	1.95E-09	0.00E+00	1.06E-07	8.54E-09	7.41E-09	2.95E-10	0.00E+00	1.62E-08	4.33E-09	3.23E-09	1.07E-10	0.00E+00	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3225	761332.85	4069807.39	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	0.00E+00
3226	761342.31	4069785.99	5.27E-08	4.51E-08	1.83E-09	0.00E+00	9.96E-08	8.02E-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	0.00E+00
3227	761351.78	4069764.59	5.11E-08	4.38E-08	1.77E-09	0.00E+00	9.67E-08	7.78E-09	6.75E-09	2.69E-10	0.00E+00	1.48E-08	3.95E-09	2.95E-09	9.74E-11	0.00E+00	6.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3228	761361.24	4069743.19	4.94E-08	4.24E-08	1.72E-09	0.00E+00	9.36E-08	7.53E-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
3229	761370.71	4069721.79	4.77E-08	4.09E-08	1.66E-09	0.00E+00	9.03E-08	7.27E-09	6.31E-09	2.51E-10	0.00E+00	1.38E-08	3.69E-09	2.75E-09	9.10E-11	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3230	761380.17	4069700.39	4.61E-08	3.95E-08	1.60E-09	0.00E+00	8.72E-08	7.02E-09	6.09E-09	2.42E-10	0.00E+00	1.34E-08	3.56E-09	2.66E-09	8.79E-11	0.00E+00	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3231	761389.64	4069678.99	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	0.00E+00
3232	761399.1	4069657.59	4.25E-08	3.65E-08	1.48E-09	0.00E+00	8.05E-08	6.48E-09	5.62E-09	2.24E-10	0.00E+00	1.23E-08	3.29E-09	2.45E-09	8.11E-11	0.00E+00	5.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3233	761408.57	4069636.19	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	0.00E+00
3234	761418.03	4069614.79	3.97E-08	3.41E-08	1.38E-09	0.00E+00	7.52E-08	6.06E-09	5.25E-09	2.09E-10	0.00E+00	1.15E-08	3.07E-09	2.29E-09	7.58E-11	0.00E+00	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3235	761427.5	4069593.39	3.84E-08	3.29E-08	1.33E-09	0.00E+00	7.26E-08	5.85E-09	5.07E-09	2.02E-10	0.00E+00	1.11E-08	2.97E-09	2.21E-09	7.32E-11	0.00E+00	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3236	761436.96	4069571.99	3.71E-08	3.18E-08	1.29E-09	0.00E+00	7.02E-08	5.66E-09	4.91E-09	1.95E-10	0.00E+00	1.08E-08	2.87E-09	2.14E-09	7.08E-11	0.00E+00	5.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3237	761446.43	4069550.58	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.80E-08	5.48E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.07E-09	6.85E-11	0.00E+00	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3238	761455.89	4069529.18	3.50E-08	3.00E-08	1.22E-09	0.00E+00	6.63E-08	5.34E-09	4.63E-09	1.84E-10	0.00E+00	1.02E-08	2.71E-09	2.02E-09	6.68E-11	0.00E+00	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3239	761465.36	4069507.78	3.44E-08	2.95E-08	1.19E-09	0.00E+00	6.50E-08	5.23E-09	4.54E-09	1.81E-10	0.00E+00	9.96E-09	2.66E-09	1.98E-09	6.55E-11	0.00E+00	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3240	761474.82	4069486.38	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	0.00E+00
3241	761484.29	4069464.98	3.31E-08	2.83E-08	1.15E-09	0.00E+00	6.25E-08	5.04E-09	4.37E-09	1.74E-10	0.00E+00	9.58E-09	2.56E-09	1.91E-09	6.30E-11	0.00E+00	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3242	761515.71	4069435.49	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	0.00E+00
3243	761537.67	4069427.4	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
3244	761559.62	4069419.31	3.32E-08	2.85E-08	1.15E-09	0.00E+00	6.29E-08	5.06E-09	4.39E-09	1.75E-10	0.00E+00	9.63E-09	2.57E-09	1.92E-09	6.34E-11	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3245	761581.58	4069411.21	3.33E-08	2.85E-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	0.00E+00
3246	761603.54	4069403.12	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	2.56E-09	1.91E-09	6.33E-11	0.00E+00	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00
3261	761304.45	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	0.00E+00
3262	761304.07	4069895.67	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	0.00E+00
3263	761303.69	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	0.00E+00
3264	761303.31	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	0.00E+00
3265	761302.93	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	0.00E+00
3266	761302.55	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	0.00E+00
3267	761302.17	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	0.00E+00
3268	761301.79	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	0.00E+00
3269	761301.41	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	0.00E+00
3270	761301.03	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	0.00E+00
3271	761300.65	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	0.00E+00
3272	761300.27	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	0.00E+00
3273	761299.89	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	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	0.00E+00
3275	761223.67	4069826.59	4.96E-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	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	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	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	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	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	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	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	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	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	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	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	6.72E-11	0.00E+00	4.83E-09	0.00E+00	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	6.49E-11	0.00E+00	4.66E-09	0.00E+00	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	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+00	0.00E+00	0.00E+00	0.00E+00
3290	761367.7	4069500.93	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
3291	761377.31	4069479.22	3.11E-08	2.67E-08	1.08E-09	0.00E+00	5.89E-08	4.75E-09	4.12E-09	1.64E-10	0.00E+00	9.03E-09	2.41E-09	1.80E-09	5.94E-11	0.00E+00	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3292	761386.91	4069457.51	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	0.00E+00
3293	761396.51	4069435.8	2.98E-08	2.55E-08	1.03E-09	0.00E+00	5.64E-08	4.54E-09	3.94E-09	1.57E-10	0.00E+00	8.64E-09	2.30E-09	1.72E-09	5.68E-11	0.00E+00	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3294	761406.11	4069414.09	2.92E-08	2.50E-08	1.01E-09	0.00E+00	5.52E-08	4.45E-09	3.86E-09	1.54E-10	0.00E+00	8.46E-09	2.26E-09	1.68E-09	5.56E-11	0.00E+00	4.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3295	761415.72	4069392.38	2.86E-08	2.45E-08	9.92E-10	0.00E+00	5.41E-08	4.36E-09	3.78E-09	1.50E-10	0.00E+00	8.29E-09	2.21E-09	1.65E-09	5.45E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3296	761447.59	4069362.46	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	0.00E+00
3297	761469.87	4069354.25	2.84E-08	2.43E-08	9.85E-10	0.00E+00	5.37E-08	4.33E-09	3.75E-09	1.49E-10	0.00E+00	8.23E-09	2.19E-09	1.64E-09	5.41E-11	0.00E+00	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3298	761492.14	4069346.04	2.86E-08	2.45E-08	9.93E-10	0.00E+00	5.42E-08	4.36E-09	3.78E-09	1.51E-10	0.00E+00	8.30E-09	2.21E-09	1.65E-09	5.46E-11	0.00E+00	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3299	761514.42	4069337.83	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	0.00E+00
3300	761536.69	4069329.62	2.89E-08	2.48E-08	1.00E-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	0.00E+00
3301	761558.97	4069321.41	2.89E-08	2.48E-08	1.00E-09	0.00E+00	5.46E-08	4.40E-09	3.82E-09	1.52E-10	0.00E+00	8.37E-09	2.23E-09	1.67E-09	5.50E-11	0.00E+00	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3302	761581.24	4069313.2	2.86E-08	2.45E-08	9.92E-10	0.00E+00	5.41E-08	4.36E-09	3.78E-09	1.50E-10	0.00E+00	8.29E-09	2.21E-09	1.65E-09	5.45E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3303	761603.51	4069304.99	2.82E-08	2.41E-08	9.77E-10	0.00E+00	5.33E-08	4.29E-09	3.72E-09	1.48E-10	0.00E+00	8.16E-09	2.18E-09	1.62E-09	5.37E-11	0.00E+00	3.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3304	761625.79	4069296.78	2.78E-08	2.38E-08	9.63E-10	0.00E+00	5.25E-08	4.23E-09	3.67E-09	1.46E-10	0.00E+00	8.04E-09	2.15E-09	1.60E-09	5.29E-11	0.00E+00	3.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3305	761648.06	4069288.57	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	0.00E+00
3306	761670.34	4069280.36	2.72E-08	2.33E-08	9.43E-10	0.00E+00	5.14E-08	4.14E-09	3.59E-09	1.43E-10	0.00E+00	7.87E-09	2.10E-09	1.57E-09	5.18E-11	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3307	761692.61	4069272.15	2.71E-08	2.32E-08	9.41E-10	0.00E+00	5.13E-08	4.13E-09	3.58E-09	1.43E-10	0.00E+00	7.85E-09	2.09E-09	1.56E-09	5.17E-11	0.00E+00	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3308	761714.89	4069263.95	2.71E-08	2.32E-08	9.39E-10	0.00E+00	5.12E-08	4.12E-09	3.58E-09	1.42E-10	0.00E+00	7.84E-09	2.09E-09	1.56E-09	5.16E-11	0.00E+00	3.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3309	761737.16	4069255.74	2.71E-08	2.32E-08	9.40E-10	0.00E+00	5.12E-08	4.13E-09	3.58E-09	1.42E-10	0.00E+00	7.85E-09	2.09E-09	1.56E-09	5.16E-11	0.00E+00	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3310	761759.44	4069247.53	2.71E-08	2.33E-08	9.42E-10	0.00E+00	5.13E-08	4.13E-09	3.59E-09	1.43E-10	0.00E+00	7.86E-09	2.10E-09	1.57E-09	5.17E-11	0.00E+00	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3311	761781.71	4069239.32	2.73E-08	2.34E-08	9.49E-10	0.00E+00	5.17E-08	4.16E-09	3.61E-09	1.44E-10	0.00E+00	7.92E-09	2.11E-09	1.58E-09	5.21E-11	0.00E+00	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3312	761803.99	4069231.11	2.75E-08	2.35E-08	9.53E-10	0.00E+00	5.19E-08	4.18E-09	3.63E-09	1.44E-10	0.00E+00	7.96E-09	2.12E-09	1.58E-09	5.23E-11	0.00E+00	3.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3313	761826.26	4069222.9	2.78E-08	2.39E-08	9.66E-10	0.00E+00	5.27E-08	4.24E-09	3.68E-09	1.46E-10	0.00E+00	8.07E-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	0.00E+00
3314	761848.54	4069214.69	2.86E-08	2.45E-08	9.91E-10	0.00E+00	5.40E-08	4.35E-09	3.77E-09	1.50E-10	0.00E+00	8.28E-09	2.21E-09	1.65E-09	5.44E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3315	761870.81	4069206.48	2.95E-08	2.53E-08	1.02E-09	0.00E+00	5.57E-08	4.49E-09	3.89E-09	1.55E-10	0.00E+00	8.54E-09	2.28E-09	1.70E-09	5.62E-11	0.00E+00	4.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3316	761893.09	4069198.27	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	0.00E+00
3317	761915.36	4069190.06	3.21E-08	2.75E-08	1.11E-09	0.00E+00	6.07E-08	4.89E-09	4.24E-09	1.69E-10	0.00E+00	9.29E-09	2.48E-09	1.85E-09	6.11E-11	0.00E+00	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3318	761204.47	4069870.02	5.29E-08	4.54E-08	1.84E-09	0.00E+00	1.00E-07	8.06E-09	7.00E-09	2.78E-10	0.00E+00	1.53E-08	4.09E-09	3.05E-09	1.01E-10	0.00E+00	7.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3319	761204.09	4069894.1	5.55E-08	4.76E-08	1.93E-09	0.00E+00	1.05E-07	8.46E-09	7.34E-09	2.92E-10	0.00E+00	1.61E-08	4.29E-09	3.20E-09	1.06E-10	0.00E+00	7.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3320	761203.71	4069918.18	5.82E-08	4.99E-08	2.02E-09	0.00E+00	1.10E-07	8.87E-09	7.70E-09	3.06E-10	0.00E+00	1.69E-08	4.50E-09	3.36E-09	1.11E-10	0.00E+00	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3321	761203.33	4069942.26	6.16E-08	5.28E-08	2.14E-09	0.00E+00	1.17E-07	9.38E-09	8.14E-09	3.24E-10	0.00E+00	1.79E-08	4.76E-09	3.55E-09	1.17E-10	0.00E+00	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3322	761202.95	4069966.34	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	0.00E+00
3323	761202.57	4069990.42	6.90E-08	5.92E-08	2.40E-09	0.00E+00	1.31E-07	1.05E-08	9.13E-09	3.63E-10	0.00E+00	2.00E-08	5.34E-09	3.98E-09	1.32E-10	0.00E+00	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3324	761202.19	4070014.5	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	5.59E-09	4.17E-09	1.38E-10	0.00E+00	9.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3325	761201.81	4070038.58	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	0.00E+00
3326	761201.43	4070062.66	7.97E-08	6.84E-08	2.77E-09	0.00E+00	1.51E-07	1.21E-08	1.05E-08	4.19E-10	0.00E+00	2.31E-08	6.16E-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	0.00E+00
3327	761201.05	4070086.74	8.35E-08	7.16E-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	0.00E+00
3328	761200.67	4070110.82	8.73E-08	7.48E-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	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3329	761200.29	4070134.9	9.12E-08	7.82E-08	3.17E-09	0.00E+00	1.73E-07	1.39E-08	1.21E-08	4.80E-10	0.00E+00	2.64E-08	7.05E-09	5.26E-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
3330	761199.91	4070158.99	9.54E-08	8.18E-08	3.31E-09	0.00E+00	1.80E-07	1.45E-08	1.26E-08	5.02E-10	0.00E+00	2.76E-08	7.37E-09	5.50E-09	1.82E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3331	761114.19	4069846.49	4.54E-08	3.89E-08	1.58E-09	0.00E+00	8.59E-08	6.92E-09	6.00E-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
3332	761123.89	4069824.54	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	0.00E+00
3333	761133.6	4069802.59	4.31E-08	3.69E-08	1.49E-09	0.00E+00	8.15E-08	6.56E-09	5.69E-09	2.27E-10	0.00E+00	1.25E-08	3.33E-09	2.48E-09	8.21E-11	0.00E+00	5.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3334	761143.31	4069780.64	4.21E-08	3.61E-08	1.46E-09	0.00E+00	7.97E-08	6.42E-09	5.57E-09	2.22E-10	0.00E+00	1.22E-08	3.26E-09	2.43E-09	8.03E-11	0.00E+00	5.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3335	761153.02	4069758.69	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	2.38E-09	7.85E-11	0.00E+00	5.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3336	761162.73	4069736.74	4.00E-08	3.43E-08	1.39E-09	0.00E+00	7.58E-08	6.10E-09	5.29E-09	2.11E-10	0.00E+00	1.16E-08	3.10E-09	2.31E-09	7.63E-11	0.00E+00	5.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3337	761172.43	4069714.79	3.89E-08	3.34E-08	1.35E-09	0.00E+00	7.37E-08	5.93E-09	5.15E-09	2.05E-10	0.00E+00	1.13E-08	3.01E-09	2.25E-09	7.42E-11	0.00E+00	5.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3338	761182.14	4069692.84	3.80E-08	3.26E-08	1.32E-09	0.00E+00	7.20E-08	5.80E-09	5.03E-09	2.00E-10	0.00E+00	1.10E-08	2.94E-09	2.19E-09	7.25E-11	0.00E+00	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3339	761191.85	4069670.89	3.73E-08	3.19E-08	1.29E-09	0.00E+00	7.05E-08	5.68E-09	4.93E-09	1.96E-10	0.00E+00	1.08E-08	2.88E-09	2.15E-09	7.10E-11	0.00E+00	5.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3340	761201.56	4069648.94	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.80E-08	5.48E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.78E-09	2.07E-09	6.85E-11	0.00E+00	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3341	761211.26	4069627	3.48E-08	2.99E-08	1.21E-09	0.00E+00	6.59E-08	5.31E-09	4.61E-09	1.83E-10	0.00E+00	1.01E-08	2.69E-09	2.01E-09	6.64E-11	0.00E+00	4.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3342	761220.97	4069605.05	3.37E-08	2.89E-08	1.17E-09	0.00E+00	6.39E-08	5.14E-09	4.46E-09	1.78E-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
3343	761230.68	4069583.1	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	2.53E-09	1.89E-09	6.23E-11	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3344	761240.39	4069561.15	3.17E-08	2.72E-08	1.10E-09	0.00E+00	6.00E-08	4.83E-09	4.19E-09	1.67E-10	0.00E+00	9.20E-09	2.45E-09	1.83E-09	6.05E-11	0.00E+00	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3345	761250.1	4069539.2	3.09E-08	2.65E-08	1.07E-09	0.00E+00	5.85E-08	4.71E-09	4.09E-09	1.63E-10	0.00E+00	8.96E-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	0.00E+00
3346	761259.8	4069517.25	3.02E-08	2.59E-08	1.05E-09	0.00E+00	5.72E-08	4.60E-09	4.00E-09	1.59E-10	0.00E+00	8.76E-09	2.34E-09	1.74E-09	5.76E-11	0.00E+00	4.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3347	761269.51	4069495.3	2.97E-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	0.00E+00
3348	761279.22	4069473.35	2.93E-08	2.51E-08	1.02E-09	0.00E+00	5.54E-08	4.46E-09	3.87E-09	1.54E-10	0.00E+00	8.48E-09	2.26E-09	1.69E-09	5.58E-11	0.00E+00	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3349	761288.93	4069451.4	2.86E-08	2.46E-08	9.94E-10	0.00E+00	5.42E-08	4.36E-09	3.79E-09	1.51E-10	0.00E+00	8.30E-09	2.21E-09	1.65E-09	5.46E-11	0.00E+00	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3350	761298.63	4069429.45	2.80E-08	2.40E-08	9.73E-10	0.00E+00	5.31E-08	4.27E-09	3.71E-09	1.48E-10	0.00E+00	8.13E-09	2.17E-09	1.62E-09	5.34E-11	0.00E+00	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3351	761308.34	4069407.5	2.74E-08	2.35E-08	9.50E-10	0.00E+00	5.18E-08	4.17E-09	3.62E-09	1.44E-10	0.00E+00	7.93E-09	2.12E-09	1.58E-09	5.22E-11	0.00E+00	3.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3352	761318.05	4069385.55	2.68E-08	2.30E-08	9.31E-10	0.00E+00	5.07E-08	4.09E-09	3.55E-09	1.41E-10	0.00E+00	7.77E-09	2.07E-09	1.55E-09	5.11E-11	0.00E+00	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3353	761327.76	4069363.6	2.62E-08	2.25E-08	9.10E-10	0.00E+00	4.96E-08	4.00E-09	3.47E-09	1.38E-10	0.00E+00	7.60E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3354	761337.46	4069341.65	2.57E-08	2.20E-08	8.93E-10	0.00E+00	4.87E-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	0.00E+00
3355	761347.17	4069319.71	2.53E-08	2.17E-08	8.78E-10	0.00E+00	4.79E-08	3.86E-09	3.35E-09	1.33E-10	0.00E+00	7.33E-09	1.96E-09	1.46E-09	4.82E-11	0.00E+00	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3356	761379.4	4069289.46	2.53E-08	2.17E-08	8.78E-10	0.00E+00	4.79E-08	3.85E-09	3.34E-09	1.33E-10	0.00E+00	7.33E-09	1.95E-09	1.46E-09	4.82E-11	0.00E+00	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3357	761401.92	4069281.16	2.55E-08	2.19E-08	8.86E-10	0.00E+00	4.83E-08	3.89E-09	3.38E-09	1.34E-10	0.00E+00	7.40E-09	1.97E-09	1.47E-09	4.87E-11	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3358	761424.44	4069272.86	2.56E-08	2.20E-08	8.89E-10	0.00E+00	4.85E-08	3.90E-09	3.39E-09	1.35E-10	0.00E+00	7.43E-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	0.00E+00
3359	761446.96	4069264.56	2.58E-08	2.21E-08	8.95E-10	0.00E+00	4.88E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.47E-09	1.99E-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	0.00E+00
3360	761469.48	4069256.26	2.59E-08	2.22E-08	8.98E-10	0.00E+00	4.90E-08	3.94E-09	3.42E-09	1.36E-10	0.00E+00	7.50E-09	2.00E-09	1.49E-09	4.93E-11	0.00E+00	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3361	761492	4069247.96	2.58E-08	2.21E-08	8.95E-10	0.00E+00	4.88E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.47E-09	1.99E-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	0.00E+00
3362	761514.52	4069239.66	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	0.00E+00
3363	761537.04	4069231.36	2.54E-08	2.18E-08	8.83E-10	0.00E+00	4.82E-08	3.88E-09	3.36E-09	1.34E-10	0.00E+00	7.38E-09	1.97E-09	1.47E-09	4.85E-11	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3364	761559.55	4069223.06	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	0.00E+00
3365	761582.07	4069214.76	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	0.00E+00
3366	761604.59	4069206.46	2.46E-08	2.11E-08	8.54E-10	0.00E+00	4.65E-08	3.75E-09	3.25E-09	1.29E-10	0.00E+00	7.13E-09	1.90E-09	1.42E-09	4.69E-11	0.00E+00	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3367	761627.11	4069198.16	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
3368	761649.63	4069189.86	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	0.00E+00
3369	761672.15	4069181.56	2.36E-08	2.02E-08	8.18E-10	0.00E+00	4.46E-08	3.59E-09	3.12E-09	1.24E-10	0.00E+00	6.83E-09	1.82E-09	1.36E-09	4.49E-11	0.00E+00	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3370	761694.67	4069173.26	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	0.00E+00
3371	761717.19	4069164.96	2.32E-08	1.99E-08	8.05E-10	0.00E+00	4.39E-08	3.53E-09	3.06E-09	1.22E-10	0.00E+00	6.72E-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	0.00E+00
3372	761739.71	4069156.66	2.31E-08	1.98E-08	8.01E-10	0.00E+00	4.37E-08	3.52E-09	3.05E-09	1.21E-10	0.00E+00	6.69E-09	1.78E-09	1.33E-09	4.40E-11	0.00E+00	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3373	761762.23	4069148.36	2.30E-08	1.97E-08	7.99E-10	0.00E+00	4.36E-08	3.51E-09	3.04E-09	1.21E-10	0.00E+00	6.67E-09	1.78E-09	1.33E-09	4.39E-11	0.00E+00	3.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3374	761784.75	4069140.06	2.31E-08	1.98E-08	8.02E-10	0.00E+00	4.37E-08	3.52E-09	3.06E-09	1.22E-10	0.00E+00	6.70E-09	1.79E-09	1.33E-09	4.41E-11	0.00E+00	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3375	761807.27	4069131.76	2.34E-08	2.00E-08	8.11E-10	0.00E+00	4.42E-08	3.56E-09	3.09E-09	1.23E-10	0.00E+00	6.77E-09	1.81E-09	1.35E-09	4.46E-11	0.00E+00	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3376	761829.79	4069123.46	2.36E-08	2.03E-08	8.21E-10	0.00E+00	4.47E-08	3.60E-09	3.13E-09	1.24E-10	0.00E+00	6.85E-09	1.83E-09	1.36E-09	4.51E-11	0.00E+00	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3420	761260.05	4069289.04	2.31E-08	1.98E-08	8.01E-10	0.00E+00	4.37E-08	3.52E-09	3.05E-09	1.21E-10	0.00E+00	6.69E-09	1.78E-09	1.33E-09	4.40E-11	0.00E+00	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3421	761269.51	4069267.64	2.27E-08	1.95E-08	7.89E-10	0.00E+00	4.30E-08	3.46E-09	3.00E-09	1.20E-10	0.00E+00	6.58E-09	1.76E-09	1.31E-09	4.33E-11	0.00E+00	3.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3422	761278.98	4069246.24	2.25E-08	1.93E-08	7.81E-10	0.00E+00	4.25E-08	3.43E-09	2.97E-09	1.18E-10	0.00E+00	6.52E-09	1.74E-09	1.30E-09	4.29E-11	0.00E+00	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3423	761310.4	4069216.75	2.24E-08	1.92E-08	7.79E-10	0.00E+00	4.24E-08	3.42E-09	2.97E-09	1.18E-10	0.00E+00	6.50E-09	1.73E-09	1.29E-09	4.28E-11	0.00E+00	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3424	761332.36	4069208.66	2.27E-08	1.94E-08	7.87E-10	0.00E+00	4.29E-08	3.46E-09	3.00E-09	1.19E-10	0.00E+00	6.57E-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	0.00E+00
3425	761354.31	4069200.57	2.29E-08	1.97E-08	7.96E-10	0.00E+00	4.34E-08	3.49E-09	3.03E-09	1.21E-10	0.00E+00	6.65E-09	1.77E-09	1.32E-09	4.37E-11	0.00E+00	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3426	761376.27	4069192.47	2.31E-08	1.98E-08	8.03E-10	0.00E+00	4.38E-08	3.52E-09	3.06E-09	1.22E-10	0.00E+00	6.70E-09	1.79E-09	1.33E-09	4.41E-11	0.00E+00	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3427	761398.22	4069184.38	2.32E-08	1.99E-08	8.06E-10	0.00E+00	4.39E-08	3.54E-09	3.07E-09	1.22E-10	0.00E+00	6.73E-09	1.79E-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	0.00E+00
3428	761420.18	4069176.29	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	0.00E+00
3429	761442.14	4069168.2	2.33E-08	2.00E-08	8.09E-10	0.00E+00	4.41E-08	3.55E-09	3.08E-09	1.23E-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	0.00E+00
3430	761464.09	4069160.11	2.32E-08	1.99E-08	8.05E-10	0.00E+00	4.39E-08	3.53E-09	3.07E-09	1.22E-10	0.00E+00	6.72E-09	1.79E-09	1.34E-09	4.42E-11	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3431	761486.05	4069152.01	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	4.38E-11	0.00E+00	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3432	761508.01	4069143.92	2.27E-08	1.95E-08	7.88E-10	0.00E+00	4.30E-08	3.46E-09	3.00E-09	1.19E-10	0.00E+00	6.58E-09	1.75E-09	1.31E-09	4.33E-11	0.00E+00	3.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3433	761529.96	4069135.83	2.24E-08	1.92E-08	7.77E-10	0.00E+00	4.23E-08	3.41E-09	2.96E-09	1.18E-10	0.00E+00	6.49E-09	1.73E-09	1.29E-09	4.27E-11	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3434	761551.92	4069127.74	2.20E-08	1.89E-08	7.65E-10	0.00E+00	4.17E-08	3.36E-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	0.00E+00
3435	761573.88	4069119.64	2.17E-08	1.86E-08	7.53E-10	0.00E+00	4.11E-08	3.31E-09	2.87E-09	1.14E-10	0.00E+00	6.29E-09	1.68E-09	1.25E-09	4.14E-11	0.00E+00	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3436	761595.83	4069111.55	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	0.00E+00
3437	761617.79	4069103.46	2.12E-08	1.81E-08	7.34E-10	0.00E+00	4.00E-08	3.22E-09	2.80E-09	1.11E-10	0.00E+00	6.13E-09	1.64E-09	1.22E-09	4.03E-11	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3438	761639.75	4069095.37	2.08E-08	1.78E-08	7.21E-10	0.00E+00	3.93E-08	3.16E-09	2.75E-09	1.09E-10	0.00E+00	6.02E-09	1.61E-09	1.20E-09	3.96E-11	0.00E+00	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3439	761661.7	4069087.28	2.04E-08	1.75E-08	7.08E-10	0.00E+00	3.86E-08	3.11E-09	2.70E-09	1.07E-10	0.00E+00	5.92E-09	1.58E-09	1.18E-09	3.89E-11	0.00E+00	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3440	761683.66	4069079.18	2.02E-08	1.73E-08	7.00E-10	0.00E+00	3.82E-08	3.07E-09	2.67E-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
3441	761705.61	4069071.09	2.00E-08	1.72E-08	6.96E-10	0.00E+00	3.79E-08	3.05E-09	2.65E-09	1.05E-10	0.00E+00	5.81E-09	1.55E-09	1.16E-09	3.82E-11	0.00E+00	2.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3442	761727.57	4069063	1.99E-08	1.70E-08	6.89E-10	0.00E+00	3.76E-08	3.03E-09	2.63E-09	1.04E-10	0.00E+00	5.76E-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	0.00E+00
3443	761749.53	4069054.91	1.98E-08	1.70E-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	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3444	761771.48	4069046.81	1.99E-08	1.70E-08	6.89E-10	0.00E+00	3.76E-08	3.03E-09	2.63E-09	1.04E-10	0.00E+00	5.76E-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	0.00E+00
3445	761793.44	4069038.72	2.00E-08	1.71E-08	6.92E-10	0.00E+00	3.78E-08	3.04E-09	2.64E-09	1.05E-10	0.00E+00	5.78E-09	1.54E-09	1.15E-09	3.80E-11	0.00E+00	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3446	761815.4	4069030.63	2.03E-08	1.74E-08	7.04E-10	0.00E+00	3.84E-08	3.09E-09	2.68E-09	1.07E-10	0.00E+00	5.88E-09	1.57E-09	1.17E-09	3.86E-11	0.00E+00	2.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3447	761837.35	4069022.54	2.08E-08	1.78E-08	7.21E-10	0.00E+00	3.93E-08	3.16E-09	2.75E-09	1.09E-10	0.00E+00	6.02E-09	1.61E-09	1.20E-09	3.96E-11	0.00E+00	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3448	761859.31	4069014.45	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	0.00E+00
3449	761881.27	4069006.35	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	6.45E-09	1.72E-09	1.28E-09	4.24E-11	0.00E+00	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3450	761903.22	4068998.26	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	0.00E+00
3451	761925.18	4068990.17	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	0.00E+00
3452	761004.49	4069866.86	4.23E-08	3.63E-08	1.47E-09	0.00E+00	8.00E-08	6.44E-09	5.59E-09	2.23E-10	0.00E+00	1.23E-08	3.27E-09	2.44E-09	8.06E-11	0.00E+00	5.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3453	761004.11	4069890.94	4.43E-08	3.80E-08	1.54E-09	0.00E+00	8.38E-08	6.75E-09	5.86E-09	2.33E-10	0.00E+00	1.28E-08	3.42E-09	2.56E-09	8.44E-11	0.00E+00	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3454	761003.73	4069915.02	4.63E-08	3.97E-08	1.61E-09	0.00E+00	8.76E-08	7.06E-09	6.12E-09	2.44E-10	0.00E+00	1.34E-08	3.58E-09	2.67E-09	8.83E-11	0.00E+00	6.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3455	761003.35	4069939.1	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
3456	761002.97	4069963.18	5.05E-08	4.33E-08	1.75E-09	0.00E+00	9.55E-08	7.69E-09	6.67E-09	2.66E-10	0.00E+00	1.46E-08	3.90E-09	2.91E-09	9.62E-11	0.00E+00	6.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3457	761002.59	4069987.26	5.25E-08	4.50E-08	1.82E-09	0.00E+00	9.93E-08	8.00E-09	6.94E-09	2.76E-10	0.00E+00	1.52E-08	4.06E-09	3.03E-09	1.00E-10	0.00E+00	7.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3458	761002.21	4070011.34	5.39E-08	4.62E-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	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3459	761001.83	4070035.43	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
3460	761001.45	4070059.51	5.75E-08	4.93E-08	2.00E-09	0.00E+00	1.09E-07	8.77E-09	7.61E-09	3.03E-10	0.00E+00	1.67E-08	4.45E-09	3.32E-09	1.10E-10	0.00E+00	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3461	761001.07	4070083.59	5.96E-08	5.11E-08	2.07E-09	0.00E+00	1.13E-07	9.08E-09	7.88E-09	3.13E-10	0.00E+00	1.73E-08	4.61E-09	3.44E-09	1.14E-10	0.00E+00	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3462	761000.69	4070107.67	6.18E-08	5.30E-08	2.15E-09	0.00E+00	1.17E-07	9.42E-09	8.17E-09	3.25E-10	0.00E+00	1.79E-08	4.78E-09	3.57E-09	1.18E-10	0.00E+00	8.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3463	761000.31	4070131.75	6.42E-08	5.51E-08	2.23E-09	0.00E+00	1.22E-07	9.78E-09	8.49E-09	3.38E-10	0.00E+00	1.86E-08	4.96E-09	3.70E-09	1.22E-10	0.00E+00	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3464	760999.93	4070155.83	6.63E-08	5.69E-08	2.30E-09	0.00E+00	1.26E-07	1.01E-08	8.77E-09	3.49E-10	0.00E+00	1.92E-08	5.13E-09	3.83E-09	1.26E-10	0.00E+00	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3465	760914.07	4069843.67	3.77E-08	3.23E-08	1.31E-09	0.00E+00	7.12E-08	5.74E-09	4.98E-09	1.98E-10	0.00E+00	1.09E-08	2.91E-09	2.17E-09	7.18E-11	0.00E+00	5.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3466	760923.63	4069822.05	3.67E-08	3.15E-08	1.28E-09	0.00E+00	6.95E-08	5.60E-09	4.86E-09	1.93E-10	0.00E+00	1.07E-08	2.84E-09	2.12E-09	7.00E-11	0.00E+00	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3467	760933.19	4069800.43	3.57E-08	3.06E-08	1.24E-09	0.00E+00	6.75E-08	5.44E-09	4.72E-09	1.88E-10	0.00E+00	1.03E-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
3468	760942.75	4069778.81	3.50E-08	3.00E-08	1.21E-09	0.00E+00	6.62E-08	5.33E-09	4.62E-09	1.84E-10	0.00E+00	1.01E-08	2.70E-09	2.02E-09	6.67E-11	0.00E+00	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3469	760952.31	4069757.2	3.44E-08	2.95E-08	1.19E-09	0.00E+00	6.51E-08	5.24E-09	4.55E-09	1.81E-10	0.00E+00	9.97E-09	2.66E-09	1.98E-09	6.56E-11	0.00E+00	4.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3470	760961.87	4069735.58	3.39E-08	2.91E-08	1.18E-09	0.00E+00	6.42E-08	5.17E-09	4.48E-09	1.78E-10	0.00E+00	9.83E-09	2.62E-09	1.96E-09	6.46E-11	0.00E+00	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3471	760971.43	4069713.96	3.34E-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	9.67E-09	2.58E-09	1.92E-09	6.36E-11	0.00E+00	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3472	760980.99	4069692.35	3.27E-08	2.80E-08	1.14E-09	0.00E+00	6.19E-08	4.98E-09	4.32E-09	1.72E-10	0.00E+00	9.48E-09	2.53E-09	1.89E-09	6.23E-11	0.00E+00	4.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3473	760990.55	4069670.73	3.22E-08	2.76E-08	1.12E-09	0.00E+00	6.08E-08	4.90E-09	4.25E-09	1.69E-10	0.00E+00	9.32E-09	2.49E-09	1.85E-09	6.13E-11	0.00E+00	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3474	761000.11	4069649.11	3.16E-08	2.71E-08	1.10E-09	0.00E+00	5.99E-08	4.82E-09	4.18E-09	1.66E-10	0.00E+00	9.17E-09	2.45E-09	1.83E-09	6.03E-11	0.00E+00	4.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3475	761009.67	4069627.5	3.08E-08	2.64E-08	1.07E-09	0.00E+00	5.83E-08	4.70E-09	4.07E-09	1.62E-10	0.00E+00	8.93E-09	2.38E-09	1.78E-09	5.88E-11	0.00E+00	4.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3476	761019.23	4069605.88	3.02E-08	2.59E-08	1.05E-09	0.00E+00	5.71E-08	4.60E-09	3.99E-09	1.59E-10	0.00E+00	8.74E-09	2.33E-09	1.74E-09	5.75E-11	0.00E+00	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3477	761028.79	4069584.26	2.94E-08	2.52E-08	1.02E-09	0.00E+00	5.57E-08	4.49E-09	3.89E-09	1.55E-10	0.00E+00	8.53E-09	2.28E-09	1.70E-09	5.61E-11	0.00E+00	4.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3478	761038.35	4069562.65	2.86E-08	2.45E-08	9.93E-10	0.00E+00	5.41E-08	4.36E-09	3.78E-09	1.50E-10	0.00E+00	8.29E-09	2.21E-09	1.65E-09	5.45E-11	0.00E+00	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3479	761047.91	4069541.03	2.78E-08	2.38E-08	9.65E-10	0.00E+00	5.26E-08	4.24E-09	3.68E-09	1.46E-10	0.00E+00	8.06E-09	2.15E-09	1.60E-09	5.30E-11	0.00E+00	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3480	761057.47	4069519.41	2.72E-08	2.33E-08	9.44E-10	0.00E+00	5.14E-08	4.14E-09	3.59E-09	1.43E-10	0.00E+00	7.88E-09	2.10E-09	1.57E-09	5.18E-11	0.00E+00	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3481	761067.03	4069497.8	2.67E-08	2.29E-08	9.26E-10	0.00E+00	5.05E-08	4.07E-09	3.53E-09	1.40E-10	0.00E+00	7.74E-09	2.06E-09	1.54E-09	5.09E-11	0.00E+00	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3482	761076.6	4069476.18	2.62E-08	2.25E-08	9.10E-10	0.00E+00	4.96E-08	3.99E-09	3.47E-09	1.38E-10	0.00E+00	7.60E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3483	761086.16	4069454.56	2.58E-08	2.21E-08	8.95E-10	0.00E+00	4.88E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.47E-09	1.99E-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	0.00E+00
3484	761095.72	4069432.95	2.54E-08	2.18E-08	8.82E-10	0.00E+00	4.81E-08	3.87E-09	3.36E-09	1.34E-10	0.00E+00	7.37E-09	1.96E-09	1.47E-09	4.84E-11	0.00E+00	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3485	761105.28	4069411.33	2.49E-08	2.14E-08	8.65E-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	4.75E-11	0.00E+00	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3486	761114.84	4069389.71	2.45E-08	2.10E-08	8.49E-10	0.00E+00	4.63E-08	3.73E-09	3.23E-09	1.29E-10	0.00E+00	7.09E-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	0.00E+00
3487	761124.4	4069368.1	2.40E-08	2.06E-08	8.33E-10	0.00E+00	4.54E-08	3.66E-09	3.17E-09	1.26E-10	0.00E+00	6.95E-09	1.85E-09	1.38E-09	4.57E-11	0.00E+00	3.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3488	761133.96	4069346.48	2.36E-08	2.02E-08	8.18E-10	0.00E+00	4.46E-08	3.59E-09	3.12E-09	1.24E-10	0.00E+00	6.83E-09	1.82E-09	1.36E-09	4.49E-11	0.00E+00	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3489	761143.52	4069324.86	2.31E-08	1.98E-08	8.03E-10	0.00E+00	4.38E-08	3.52E-09	3.06E-09	1.22E-10	0.00E+00	6.70E-09	1.79E-09	1.33E-09	4.41E-11	0.00E+00	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3490	761153.08	4069303.25	2.27E-08	1.95E-08	7.89E-10	0.00E+00	4.30E-08	3.46E-09	3.00E-09	1.20E-10	0.00E+00	6.58E-09	1.76E-09	1.31E-09	4.33E-11	0.00E+00	3.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3491	761162.64	4069281.63	2.23E-08	1.92E-08	7.76E-10	0.00E+00	4.23E-08	3.40E-09	2.95E-09	1.18E-10	0.00E+00	6.48E-09	1.73E-09	1.29E-09	4.26E-11	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3492	761172.2	4069260.01	2.19E-08	1.88E-08	7.61E-10	0.00E+00	4.15E-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+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3493	761181.76	4069238.4	2.17E-08	1.86E-08	7.52E-10	0.00E+00	4.10E-08	3.30E-09	2.86E-09	1.14E-10	0.00E+00	6.28E-09	1.67E-09	1.25E-09	4.13E-11	0.00E+00	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3494	761191.32	4069216.78	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	0.00E+00
3495	761200.88	4069195.16	2.10E-08	1.80E-08	7.29E-10	0.00E+00	3.98E-08	3.20E-09	2.78E-09	1.11E-10	0.00E+00	6.09E-09	1.62E-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
3496	761210.44	4069173.55	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	0.00E+00
3497	761242.18	4069143.76	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	0.00E+00
3498	761264.36	4069135.58	2.04E-08	1.75E-08	7.08E-10	0.00E+00	3.86E-08	3.11E-09	2.70E-09	1.07E-10	0.00E+00	5.91E-09	1.58E-09	1.18E-09	3.89E-11	0.00E+00	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3499	761286.54	4069127.41	2.05E-08	1.76E-08	7.13E-10	0.00E+00	3.89E-08	3.13E-09	2.72E-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	0.00E+00
3500	761308.72	4069119.23	2.08E-08	1.78E-08	7.21E-10	0.00E+00	3.93E-08	3.16E-09	2.75E-09	1.09E-10	0.00E+00	6.02E-09	1.61E-09	1.20E-09	3.96E-11	0.00E+00	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3501	761330.9	4069111.06	2.11E-08	1.81E-08	7.31E-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	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3502	761353.07	4069102.89	2.13E-08	1.83E-08	7.39E-10	0.00E+00	4.03E-08	3.25E-09	2.82E-09	1.12E-10	0.00E+00	6.17E-09	1.65E-09	1.23E-09	4.06E-11	0.00E+00	2.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3503	761375.25	4069094.71	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	0.00E+00
3504	761397.43	4069086.54	2.14E-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	6.19E-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	0.00E+00
3505	761419.61	4069078.36	2.13E-08	1.82E-08	7.39E-10	0.00E+00	4.03E-08	3.24E-09	2.81E-09	1.12E-10	0.00E+00	6.17E-09	1.64E-09	1.23E-09	4.06E-11	0.00E+00	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3506	761441.79	4069070.19	2.11E-08	1.81E-08	7.34E-10	0.00E+00	4.00E-08	3.22E-09	2.79E-09	1.11E-10	0.00E+00	6.13E-09	1.63E-09	1.22E-09	4.03E-11	0.00E+00	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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
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	4069865.28	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	4069889.36	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	760900.7	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	0.00E+00	0.00E+00
3548	760872	4069711.13	3.08E-08	2.64E-08	1.07E-09	0.00E+00	5.83E-08	4.69E-09	4.07E-09	1.62E-10	0.00E+00	8.92E-09	2.38E-09	1.78E-09	5.87E-11	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3549	760881.64	4069689.33	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	0.00E+00
3550	760891.28	4069667.53	2.97E-08	2.55E-08	1.03E-09	0.00E+00	5.63E-08	4.53E-09	3.93E-09	1.56E-10	0.00E+00	8.62E-09	2.30E-09	1.72E-09	5.67E-11	0.00E+00	4.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3551	760900.92	4069645.74	2.92E-08	2.50E-08	1.01E-09	0.00E+00	5.52E-08	4.44E-09	3.85E-09	1.53E-10	0.00E+00	8.45E-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	0.00E+00
3552	760910.56	4069623.94	2.87E-08	2.46E-08	9.95E-10	0.00E+00	5.42E-08	4.37E-09	3.79E-09	1.51E-10	0.00E+00	8.31E-09	2.22E-09	1.65E-09	5.46E-11	0.00E+00	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3553	760920.2	4069602.14	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	0.00E+00
3554	760929.84	4069580.34	2.77E-08	2.38E-08	9.61E-10	0.00E+00	5.24E-08	4.22E-09	3.66E-09	1.46E-10	0.00E+00	8.03E-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	0.00E+00
3555	760939.48	4069558.55	2.71E-08	2.33E-08	9.42E-10	0.00E+00	5.13E-08	4.13E-09	3.59E-09	1.43E-10	0.00E+00	7.86E-09	2.10E-09	1.57E-09	5.17E-11	0.00E+00	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3556	760949.12	4069536.75	2.65E-08	2.27E-08	9.19E-10	0.00E+00	5.01E-08	4.03E-09	3.50E-09	1.39E-10	0.00E+00	7.67E-09	2.05E-09	1.53E-09	5.05E-11	0.00E+00	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3557	760958.76	4069514.95	2.58E-08	2.21E-08	8.95E-10	0.00E+00	4.88E-08	3.93E-09	3.41E-09	1.36E-10	0.00E+00	7.47E-09	1.99E-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	0.00E+00
3558	760968.4	4069493.16	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	0.00E+00
3559	760978.04	4069471.36	2.46E-08	2.11E-08	8.54E-10	0.00E+00	4.66E-08	3.75E-09	3.25E-09	1.29E-10	0.00E+00	7.13E-09	1.90E-09	1.42E-09	4.69E-11	0.00E+00	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3560	760987.68	4069449.56	2.43E-08	2.08E-08	8.44E-10	0.00E+00	4.60E-08	3.70E-09	3.21E-09	1.28E-10	0.00E+00	7.05E-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	0.00E+00
3561	760997.32	4069427.77	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	0.00E+00
3562	761006.96	4069405.97	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	0.00E+00
3563	761016.6	4069384.17	2.31E-08	1.98E-08	8.01E-10	0.00E+00	4.37E-08	3.52E-09	3.05E-09	1.21E-10	0.00E+00	6.69E-09	1.78E-09	1.33E-09	4.40E-11	0.00E+00	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3564	761026.24	4069362.38	2.28E-08	1.96E-08	7.92E-10	0.00E+00	4.32E-08	3.48E-09	3.02E-09	1.20E-10	0.00E+00	6.62E-09	1.76E-09	1.32E-09	4.35E-11	0.00E+00	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3565	761035.88	4069340.58	2.25E-08	1.93E-08	7.81E-10	0.00E+00	4.25E-08	3.43E-09	2.97E-09	1.18E-10	0.00E+00	6.52E-09	1.74E-09	1.30E-09	4.29E-11	0.00E+00	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3566	761045.52	4069318.78	2.22E-08	1.90E-08	7.69E-10	0.00E+00	4.19E-08	3.38E-09	2.93E-09	1.17E-10	0.00E+00	6.43E-09	1.71E-09	1.28E-09	4.23E-11	0.00E+00	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3567	761055.16	4069296.99	2.19E-08	1.88E-08	7.60E-10	0.00E+00	4.14E-08	3.33E-09	2.89E-09	1.15E-10	0.00E+00	6.34E-09	1.69E-09	1.26E-09	4.17E-11	0.00E+00	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3568	761064.8	4069275.19	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
3569	761074.44	4069253.39	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	0.00E+00
3570	761084.09	4069231.6	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	0.00E+00
3571	761093.73	4069209.8	2.08E-08	1.78E-08	7.21E-10	0.00E+00	3.93E-08	3.17E-09	2.75E-09	1.09E-10	0.00E+00	6.02E-09	1.61E-09	1.20E-09	3.96E-11	0.00E+00	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3572	761103.37	4069188	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	0.00E+00
3573	761113.01	4069166.2	2.00E-08	1.71E-08	6.94E-10	0.00E+00	3.78E-08	3.05E-09	2.64E-09	1.05E-10	0.00E+00	5.79E-09	1.54E-09	1.15E-09	3.81E-11	0.00E+00	2.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3574	761122.65	4069144.41	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	0.00E+00
3575	761132.29	4069122.61	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	0.00E+00
3576	761141.93	4069100.81	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
3577	761173.93	4069070.77	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	3.51E-11	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3578	761196.29	4069062.53	1.85E-08	1.59E-08	6.43E-10	0.00E+00	3.51E-08	2.82E-09	2.45E-09	9.75E-11	0.00E+00	5.37E-09	1.43E-09	1.07E-09	3.53E-11	0.00E+00	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3579	761218.66	4069054.29	1.87E-08	1.60E-08	6.49E-10	0.00E+00	3.54E-08	2.85E-09	2.47E-09	9.83E-11	0.00E+00	5.42E-09	1.44E-09	1.08E-09	3.56E-11	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3580	761241.02	4069046.05	1.89E-08	1.62E-08	6.56E-10	0.00E+00	3.57E-08	2.88E-09	2.50E-09	9.94E-11	0.00E+00	5.47E-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	0.00E+00
3581	761263.38	4069037.81	1.91E-08	1.64E-08	6.63E-10	0.00E+00	3.61E-08	2.91E-09	2.53E-09	1.00E-10	0.00E+00	5.54E-09	1.48E-09	1.10E-09	3.64E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3582	761285.75	4069029.56	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
3583	761308.11	4069021.32	1.96E-08	1.68E-08	6.80E-10	0.00E+00	3.71E-08	2.99E-09	2.59E-09	1.03E-10	0.00E+00	5.68E-09	1.51E-09	1.13E-09	3.74E-11	0.00E+00	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3584	761330.47	4069013.08	1.97E-08	1.69E-08	6.84E-10	0.00E+00	3.73E-08	3.00E-09	2.61E-09	1.04E-10	0.00E+00	5.72E-09	1.52E-09	1.14E-09	3.76E-11	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3585	761352.83	4069004.84	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
3586	761375.2	4068996.6	1.97E-08	1.69E-08	6.84E-10	0.00E+00	3.73E-08	3.00E-09	2.60E-09	1.04E-10	0.00E+00	5.71E-09	1.52E-09	1.14E-09	3.76E-11	0.00E+00	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3587	761397.56	4068988.35	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	0.00E+00
3588	761419.92	4068980.11	1.94E-08	1.67E-08	6.75E-10	0.00E+00	3.68E-08	2.96E-09	2.57E-09	1.02E-10	0.00E+00	5.63E-09	1.50E-09	1.12E-09	3.71E-11	0.00E+00	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3589	761442.29	4068971.87	1.91E-08	1.63E-08	6.62E-10	0.00E+00	3.61E-08	2.90E-09	2.52E-09	1.00E-10	0.00E+00	5.53E-09	1.47E-09	1.10E-09	3.63E-11	0.00E+00	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3590	761464.65	4068963.63	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	0.00E+00
3591	761487.01	4068955.39	1.82E-08	1.56E-08	6.33E-10	0.00E+00	3.45E-08	2.78E-09	2.41E-09	9.59E-11	0.00E+00	5.28E-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	0.00E+00
3592	761509.38	4068947.14	1.78E-08	1.53E-08	6.19E-10	0.00E+00	3.37E-08	2.72E-09	2.36E-09	9.38E-11	0.00E+00	5.17E-09	1.38E-09	1.03E-09	3.40E-11	0.00E+00	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3593	761531.74	4068938.9	1.74E-08	1.49E-08	6.04E-10	0.00E+00	3.29E-08	2.65E-09	2.30E-09	9.15E-11	0.00E+00	5.04E-09	1.34E-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	0.00E+00
3594	761554.1	4068930.66	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	9.81E-10	3.24E-11	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3595	761576.47	4068922.42	1.66E-08	1.43E-08	5.77E-10	0.00E+00	3.15E-08	2.53E-09	2.20E-09	8.75E-11	0.00E+00	4.82E-09	1.29E-09	9.60E-10	3.17E-11	0.00E+00	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3596	761598.83	4068914.18	1.63E-08	1.40E-08	5.65E-10	0.00E+00	3.08E-08	2.48E-09	2.15E-09	8.56E-11	0.00E+00	4.72E-09	1.26E-09	9.39E-10	3.10E-11	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3597	761621.19	4068905.93	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	0.00E+00
3598	761643.55	4068897.69	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	0.00E+00
3599	761665.92	4068889.45	1.54E-08	1.32E-08	5.34E-10	0.00E+00	2.91E-08	2.34E-09	2.03E-09	8.09E-11	0.00E+00	4.46E-09	1.19E-09	8.87E-10	2.93E-11	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3600	761688.28	4068881.21	1.52E-08	1.31E-08	5.29E-10	0.00E+00	2.88E-08	2.32E-09	2.01E-09	8.01E-11	0.00E+00	4.42E-09	1.18E-09	8.79E-10	2.90E-11	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3601	761710.64	4068872.96	1.52E-08	1.30E-08	5.28E-10	0.00E+00	2.88E-08	2.32E-09	2.01E-09	8.00E-11	0.00E+00	4.41E-09	1.17E-09	8.77E-10	2.90E-11	0.00E+00	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3602	761733.01	4068864.72	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	0.00E+00
3603	761755.37	4068856.48	1.54E-08	1.32E-08	5.34E-10	0.00E+00	2.91E-08	2.35E-09	2.04E-09	8.10E-11	0.00E+00	4.46E-09	1.19E-09	8.88E-10	2.93E-11	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3604	761777.73	4068848.24	1.56E-08	1.34E-08	5.42E-10	0.00E+00	2.96E-08	2.38E-09	2.07E-09	8.22E-11	0.00E+00	4.53E-09	1.21E-09	9.01E-10	2.98E-11	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3605	761800.1	4068840	1.60E-08	1.37E-08	5.55E-10	0.00E+00	3.02E-08	2.43E-09	2.11E-09	8.41E-11	0.00E+00	4.63E-09	1.24E-09	9.22E-10	3.05E-11	0.00E+00	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3606	761822.46	4068831.75	1.64E-08	1.41E-08	5.71E-10	0.00E+00	3.11E-08	2.50E-09	2.17E-09	8.65E-11	0.00E+00	4.76E-09	1.27E-09	9.48E-10	3.13E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3607	761844.82	4068823.51	1.70E-08	1.46E-08	5.89E-10	0.00E+00	3.21E-08	2.59E-09	2.24E-09	8.93E-11	0.00E+00	4.92E-09	1.31E-09	9.79E-10	3.24E-11	0.00E+00	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3608	761867.18	4068815.27	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
3609	761889.55	4068807.03	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	0.00E+00
3610	761911.91	4068798.79	1.93E-08	1.65E-08	6.69E-10	0.00E+00	3.65E-08	2.94E-09	2.55E-09	1.01E-10	0.00E+00	5.59E-09	1.49E-09	1.11E-09	3.67E-11	0.00E+00	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3611	761934.27	4068790.54	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
3612	760804.52	4069863.7	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	0.00E+00
3613	760804.14	4069887.78	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	0.00E+00
3614	760803.76	4069911.87	3.82E-08	3.27E-08	1.33E-09	0.00E+00	7.22E-08	5.82E-09	5.05E-09	2.01E-10	0.00E+00	1.11E-08	2.95E-09	2.20E-09	7.28E-11	0.00E+00	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3615	760803.38	4069935.95	3.97E-08	3.41E-08	1.38E-09	0.00E+00	7.52E-08	6.05E-09	5.25E-09	2.09E-10	0.00E+00	1.15E-08	3.07E-09	2.29E-09	7.57E-11	0.00E+00	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3616	760803	4069960.03	4.13E-08	3.54E-08	1.43E-09	0.00E+00	7.82E-08	6.30E-09	5.46E-09	2.17E-10	0.00E+00	1.20E-08	3.19E-09	2.38E-09	7.88E-11	0.00E+00	5.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3617	760802.62	4069984.11	4.28E-08	3.67E-08	1.49E-09	0.00E+00	8.10E-08	6.52E-09	5.66E-09	2.25E-10	0.00E+00	1.24E-08	3.31E-09	2.47E-09	8.16E-11	0.00E+00	5.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3618	760802.24	4070008.19	4.40E-08	3.77E-08	1.53E-09	0.00E+00	8.33E-08	6.71E-09	5.82E-09	2.32E-10	0.00E+00	1.28E-08	3.40E-09	2.54E-09	8.39E-11	0.00E+00	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3619	760801.86	4070032.27	4.51E-08	3.87E-08	1.57E-09	0.00E+00	8.53E-08	6.87E-09	5.96E-09	2.37E-10	0.00E+00	1.31E-08	3.49E-09	2.60E-09	8.60E-11	0.00E+00	6.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3620	760801.48	4070056.35	4.60E-08	3.95E-08	1.60E-09	0.00E+00	8.71E-08	7.01E-09	6.08E-09	2.42E-10	0.00E+00	1.33E-08	3.56E-09	2.65E-09	8.77E-11	0.00E+00	6.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3621	760801.1	4070080.43	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	0.00E+00
3622	760800.72	4070104.51	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	9.16E-11	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3623	760800.34	4070128.59	4.94E-08	4.23E-08	1.71E-09	0.00E+00	9.34E-08	7.52E-09	6.53E-09	2.60E-10	0.00E+00	1.43E-08	3.81E-09	2.85E-09	9.41E-11	0.00E+00	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3624	760799.96	4070152.67	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	0.00E+00
3625	760714.24	4069840.18	3.21E-08	2.75E-08	1.11E-09	0.00E+00	6.07E-08	4.89E-09	4.24E-09	1.69E-10	0.00E+00	9.30E-09	2.48E-09	1.85E-09	6.12E-11	0.00E+00	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3626	760723.94	4069818.23	3.14E-08	2.69E-08	1.09E-09	0.00E+00	5.95E-08	4.79E-09	4.15E-09	1.65E-10	0.00E+00	9.11E-09	2.43E-09	1.81E-09	5.99E-11	0.00E+00	4.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3627	760733.65	4069796.28	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	0.00E+00
3628	760743.36	4069774.33	3.02E-08	2.59E-08	1.05E-09	0.00E+00	5.72E-08	4.61E-09	4.00E-09	1.59E-10	0.00E+00	8.76E-09	2.34E-09	1.74E-09	5.76E-11	0.00E+00	4.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3629	760753.07	4069752.38	2.97E-08	2.55E-08	1.03E-09	0.00E+00	5.63E-08	4.53E-09	3.93E-09	1.56E-10	0.00E+00	8.62E-09	2.30E-09	1.72E-09	5.67E-11	0.00E+00	4.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3630	760762.78	4069730.43	2.93E-08	2.51E-08	1.02E-09	0.00E+00	5.54E-08	4.46E-09	3.87E-09	1.54E-10	0.00E+00	8.49E-09	2.26E-09	1.69E-09	5.59E-11	0.00E+00	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3631	760772.48	4069708.48	2.89E-08	2.48E-08	1.00E-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	0.00E+00
3632	760782.19	4069686.53	2.86E-08	2.45E-08	9.92E-10	0.00E+00	5.41E-08	4.35E-09	3.78E-09	1.50E-10	0.00E+00	8.28E-09	2.21E-09	1.65E-09	5.45E-11	0.00E+00	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3633	760791.9	4069664.58	2.83E-08	2.42E-08	9.81E-10	0.00E+00	5.35E-08	4.30E-09	3.73E-09	1.49E-10	0.00E+00	8.19E-09	2.18E-09	1.63E-09	5.39E-11	0.00E+00	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3634	760801.61	4069642.63	2.78E-08	2.39E-08	9.66E-10	0.00E+00	5.27E-08	4.24E-09	3.68E-09	1.46E-10	0.00E+00	8.07E-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	0.00E+00
3635	760811.31	4069620.68	2.72E-08	2.33E-08	9.45E-10	0.00E+00	5.15E-08	4.15E-09	3.60E-09	1.43E-10	0.00E+00	7.89E-09	2.10E-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	0.00E+00
3636	760821.02	4069598.73	2.67E-08	2.29E-08	9.27E-10	0.00E+00	5.05E-08	4.07E-09	3.53E-09	1.41E-10	0.00E+00	7.74E-09	2.06E-09	1.54E-09	5.09E-11	0.00E+00	3.66E-09	0.00E+00	0.00E+00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3680	761488.48	4068856.71	1.63E-08	1.40E-08	5.65E-10	0.00E+00	3.08E-08	2.48E-09	2.15E-09	8.56E-11	0.00E+00	4.72E-09	1.26E-09	9.39E-10	3.10E-11	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3681	761511	4068848.41	1.58E-08	1.35E-08	5.48E-10	0.00E+00	2.99E-08	2.40E-09	2.09E-09	8.30E-11	0.00E+00	4.57E-09	1.22E-09	9.10E-10	3.01E-11	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3682	761533.52	4068840.11	1.53E-08	1.31E-08	5.32E-10	0.00E+00	2.90E-08	2.33E-09	2.03E-09	8.06E-11	0.00E+00	4.44E-09	1.18E-09	8.84E-10	2.92E-11	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3683	761556.04	4068831.81	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	0.00E+00
3684	761578.56	4068823.51	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	0.00E+00
3685	761601.08	4068815.21	1.42E-08	1.22E-08	4.93E-10	0.00E+00	2.69E-08	2.16E-09	1.88E-09	7.47E-11	0.00E+00	4.12E-09	1.10E-09	8.19E-10	2.71E-11	0.00E+00	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3686	761623.6	4068806.91	1.40E-08	1.20E-08	4.84E-10	0.00E+00	2.64E-08	2.13E-09	1.85E-09	7.34E-11	0.00E+00	4.05E-09	1.08E-09	8.05E-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
3687	761646.12	4068798.61	1.38E-08	1.18E-08	4.78E-10	0.00E+00	2.61E-08	2.10E-09	1.82E-09	7.25E-11	0.00E+00	3.99E-09	1.07E-09	7.95E-10	2.63E-11	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3688	761668.64	4068790.31	1.37E-08	1.17E-08	4.75E-10	0.00E+00	2.59E-08	2.09E-09	1.81E-09	7.20E-11	0.00E+00	3.97E-09	1.06E-09	7.90E-10	2.61E-11	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3689	761691.15	4068782.01	1.37E-08	1.17E-08	4.74E-10	0.00E+00	2.58E-08	2.08E-09	1.81E-09	7.18E-11	0.00E+00	3.96E-09	1.06E-09	7.88E-10	2.60E-11	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3690	761713.67	4068773.71	1.37E-08	1.18E-08	4.76E-10	0.00E+00	2.59E-08	2.09E-09	1.81E-09	7.21E-11	0.00E+00	3.97E-09	1.06E-09	7.91E-10	2.61E-11	0.00E+00	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3691	761736.19	4068765.41	1.39E-08	1.19E-08	4.83E-10	0.00E+00	2.63E-08	2.12E-09	1.84E-09	7.31E-11	0.00E+00	4.03E-09	1.07E-09	8.02E-10	2.65E-11	0.00E+00	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3692	761758.71	4068757.11	1.41E-08	1.21E-08	4.90E-10	0.00E+00	2.67E-08	2.15E-09	1.87E-09	7.43E-11	0.00E+00	4.09E-09	1.09E-09	8.14E-10	2.69E-11	0.00E+00	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3693	761781.23	4068748.81	1.45E-08	1.24E-08	5.02E-10	0.00E+00	2.74E-08	2.20E-09	1.91E-09	7.61E-11	0.00E+00	4.19E-09	1.12E-09	8.35E-10	2.76E-11	0.00E+00	1.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3694	761803.75	4068740.51	1.48E-08	1.27E-08	5.13E-10	0.00E+00	2.80E-08	2.25E-09	1.96E-09	7.78E-11	0.00E+00	4.29E-09	1.14E-09	8.53E-10	2.82E-11	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3695	761826.27	4068732.21	1.53E-08	1.31E-08	5.30E-10	0.00E+00	2.89E-08	2.33E-09	2.02E-09	8.03E-11	0.00E+00	4.43E-09	1.18E-09	8.81E-10	2.91E-11	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3696	761848.79	4068723.91	1.58E-08	1.36E-08	5.49E-10	0.00E+00	2.99E-08	2.41E-09	2.09E-09	8.32E-11	0.00E+00	4.58E-09	1.22E-09	9.13E-10	3.02E-11	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3697	761871.31	4068715.61	1.64E-08	1.41E-08	5.71E-10	0.00E+00	3.11E-08	2.50E-09	2.17E-09	8.65E-11	0.00E+00	4.76E-09	1.27E-09	9.48E-10	3.13E-11	0.00E+00	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3698	761893.83	4068707.31	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	0.00E+00
3699	761916.35	4068699.01	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	0.00E+00
3700	761938.87	4068690.71	1.85E-08	1.59E-08	6.43E-10	0.00E+00	3.50E-08	2.82E-09	2.45E-09	9.74E-11	0.00E+00	5.37E-09	1.43E-09	1.07E-09	3.53E-11	0.00E+00	2.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3701	760704.53	4069862.13	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	0.00E+00
3702	760704.15	4069886.21	3.39E-08	2.90E-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	0.00E+00
3703	760703.77	4069910.29	3.50E-08	3.00E-08	1.22E-09	0.00E+00	6.63E-08	5.34E-09	4.63E-09	1.84E-10	0.00E+00	1.02E-08	2.71E-09	2.02E-09	6.68E-11	0.00E+00	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3704	760703.39	4069934.37	3.62E-08	3.11E-08	1.26E-09	0.00E+00	6.86E-08	5.52E-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	0.00E+00
3705	760703.01	4069958.45	3.75E-08	3.22E-08	1.30E-09	0.00E+00	7.10E-08	5.72E-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	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3706	760702.63	4069982.53	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	0.00E+00
3707	760702.25	4070006.61	4.00E-08	3.43E-08	1.39E-09	0.00E+00	7.58E-08	6.10E-09	5.29E-09	2.11E-10	0.00E+00	1.16E-08	3.10E-09	2.31E-09	7.63E-11	0.00E+00	5.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3708	760701.87	4070030.69	4.10E-08	3.51E-08	1.42E-09	0.00E+00	7.75E-08	6.24E-09	5.42E-09	2.16E-10	0.00E+00	1.19E-08	3.17E-09	2.36E-09	7.81E-11	0.00E+00	5.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3709	760701.49	4070054.77	4.19E-08	3.59E-08	1.45E-09	0.00E+00	7.92E-08	6.38E-09	5.54E-09	2.20E-10	0.00E+00	1.21E-08	3.24E-09	2.42E-09	7.98E-11	0.00E+00	5.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3710	760701.11	4070078.85	4.27E-08	3.66E-08	1.48E-09	0.00E+00	8.09E-08	6.51E-09	5.65E-09	2.25E-10	0.00E+00	1.24E-08	3.30E-09	2.47E-09	8.15E-11	0.00E+00	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3711	760700.73	4070102.93	4.36E-08	3.74E-08	1.51E-09	0.00E+00	8.25E-08	6.64E-09	5.76E-09	2.29E-10	0.00E+00	1.26E-08	3.37E-09	2.51E-09	8.31E-11	0.00E+00	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3712	760700.35	4070127.02	4.45E-08	3.82E-08	1.55E-09	0.00E+00	8.43E-08	6.79E-09	5.89E-09	2.34E-10	0.00E+00	1.29E-08	3.44E-09	2.57E-09	8.49E-11	0.00E+00	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3713	760699.97	4070151.1	4.54E-08	3.89E-08	1.58E-09	0.00E+00	8.59E-08	6.92E-09	6.00E-09	2.39E-10	0.00E+00	1.32E-08	3.51E-09	2.62E-09	8.65E-11	0.00E+00	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3714	761898.71	4070195.01	2.67E-06	2.29E-06	9.26E-08	0.00E+00	5.05E-06	4.06E-07	3.53E-07	1.40E-08	0.00E+00	7.73E-07	2.06E-07	1.54E-07	5.08E-09	0.00E+00	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3715	761922.34	4070196.06	2.87E-06	2.46E-06	9.95E-08	0.00E+00	5.42E-06	4.37E-07	3.79E-07	1.51E-08	0.00E+00	8.31E-07	2.21E-07	1.65E-07	5.46E-09	0.00E+00	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3716	761945.97	4070197.12	3.08E-06	2.64E-06	1.07E-07	0.00E+00	5.83E-06	4.70E-07	4.08E-07	1.62E-08	0.00E+00	8.94E-07	2.38E-07	1.78E-07	5.88E-09	0.00E+00	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3717	761969.6	4070198.17	3.65E-06	3.13E-06	1.27E-07	0.00E+00	6.91E-06	5.57E-07	4.83E-07	1.92E-08	0.00E+00	1.06E-06	2.82E-07	2.11E-07	6.96E-09	0.00E+00	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3718	761880.5	4070212.14	1.95E-06	1.68E-06	6.78E-08	0.00E+00	3.70E-06	2.98E-07	2.58E-07	1.03E-08	0.00E+00	5.66E-07	1.51E-07	1.13E-07	3.72E-09	0.00E+00	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3719	761921.22	4070221.04	2.07E-06	1.78E-06	7.19E-08	0.00E+00	3.92E-06	3.16E-07	2.74E-07	1.09E-08	0.00E+00	6.00E-07	1.60E-07	1.19E-07	3.95E-09	0.00E+00	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3720	761944.86	4070222.09	2.33E-06	2.00E-06	8.08E-08	0.00E+00	4.40E-06	3.55E-07	3.08E-07	1.22E-08	0.00E+00	6.74E-07	1.80E-07	1.34E-07	4.44E-09	0.00E+00	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3721	761968.49	4070223.15	2.99E-06	2.56E-06	1.04E-07	0.00E+00	5.65E-06	4.55E-07	3.95E-07	1.57E-08	0.00E+00	8.65E-07	2.31E-07	1.72E-07	5.69E-09	0.00E+00	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3722	761879.39	4070237.12	1.54E-06	1.32E-06	5.34E-08	0.00E+00	2.91E-06	2.35E-07	2.04E-07	8.10E-09	0.00E+00	4.46E-07	1.19E-07	8.88E-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
3723	761838.42	4070203.91	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	9.13E-08	3.02E-09	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3724	761920.11	4070246.01	1.69E-06	1.45E-06	5.87E-08	0.00E+00	3.20E-06	2.58E-07	2.23E-07	8.89E-09	0.00E+00	4.90E-07	1.31E-07	9.75E-08	3.22E-09	0.00E+00	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3725	761943.74	4070247.07	1.97E-06	1.69E-06	6.84E-08	0.00E+00	3.73E-06	3.00E-07	2.61E-07	1.04E-08	0.00E+00	5.71E-07	1.52E-07	1.14E-07	3.76E-09	0.00E+00	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3726	761967.37	4070248.12	2.59E-06	2.22E-06	8.99E-08	0.00E+00	4.90E-06	3.95E-07	3.42E-07	1.36E-08	0.00E+00	7.51E-07	2.00E-07	1.49E-07	4.94E-09	0.00E+00	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3727	761878.27	4070262.09	1.27E-06	1.09E-06	4.42E-08	0.00E+00	2.41E-06	1.94E-07	1.68E-07	6.70E-09	0.00E+00	3.69E-07	9.85E-08	7.35E-08	2.43E-09	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3728	761844.1	4070246.41	1.26E-06	1.08E-06	4.38E-08	0.00E+00	2.39E-06	1.92E-07	1.67E-07	6.64E-09	0.00E+00	3.66E-07	9.76E-08	7.28E-08	2.41E-09	0.00E+00	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3729	761820.21	4070221.04	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	0.00E+00
3730	761918.99	4070270.99	1.44E-06	1.24E-06	5.00E-08	0.00E+00	2.73E-06	2.20E-07	1.91E-07	7.58E-09	0.00E+00	4.18E-07	1.11E-07	8.32E-08	2.75E-09	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3731	761942.63	4070272.04	1.71E-06	1.47E-06	5.94E-08	0.00E+00	3.24E-06	2.61E-07	2.26E-07	9.00E-09	0.00E+00	4.96E-07	1.32E-07	9.87E-08	3.26E-09	0.00E+00	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3732	761966.26	4070273.1	2.26E-06	1.93E-06	7.83E-08	0.00E+00	4.27E-06	3.44E-07	2.98E-07	1.19E-08	0.00E+00	6.54E-07	1.74E-07	1.30E-07	4.30E-09	0.00E+00	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3733	761851.52	4070275.31	1.08E-06	9.24E-07	3.74E-08	0.00E+00	2.04E-06	1.64E-07	1.42E-07	5.67E-09	0.00E+00	3.12E-07	8.33E-08	6.21E-08	2.05E-09	0.00E+00	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3734	761830.16	4070265.51	1.07E-06	9.16E-07	3.71E-08	0.00E+00	2.02E-06	1.63E-07	1.41E-07	5.62E-09	0.00E+00	3.10E-07	8.26E-08	6.17E-08	2.04E-09	0.00E+00	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3735	761800.31	4070233.8	1.09E-06	9.36E-07	3.79E-08	0.00E+00	2.07E-06	1.66E-07	1.44E-07	5.74E-09	0.00E+00	3.16E-07	8.44E-08	6.30E-08	2.08E-09	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3736	761791.82	4070211.88	1.11E-06	9.53E-07	3.86E-08	0.00E+00	2.10E-06	1.69E-07	1.47E-07	5.85E-09	0.00E+00	3.22E-07	8.59E-08	6.41E-08	2.12E-09	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3737	761783.33	4070189.97	1.09E-06	9.37E-07	3.79E-08	0.00E+00	2.07E-06	1.67E-07	1.45E-07	5.75E-09	0.00E+00	3.17E-07	8.45E-08	6.31E-08	2.08E-09	0.00E+00	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3738	761811.11	4070282.25	9.17E-07	7.86E-07	3.18E-08	0.00E+00	1.74E-06	1.40E-07	1.21E-07	4.83E-09	0.00E+00	2.66E-07	7.09E-08	5.29E-08	1.75E-09	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3739	761782.45	4070251.81	9.33E-07	8.00E-07	3.24E-08	0.00E+00	1.76E-06	1.42E-07	1.23E-07	4.91E-09	0.00E+00	2.70E-07	7.21E-08	5.38E-08	1.78E-09	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3740	761774.3	4070230.77	9.54E-07	8.18E-07	3.31E-08	0.00E+00	1.80E-06	1.45E-07	1.26E-07	5.02E-09	0.00E+00	2.76E-07	7.37E-08	5.50E-08	1.82E-09	0.00E+00	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3741	761766.14	4070209.74	9.48E-07	8.13E-07	3.29E-08	0.00E+00	1.79E-06	1.44E-07	1.25E-07	4.99E-09	0.00E+00	2.75E-07	7.33E-08	5.47E-08	1.81E-09	0.00E+00	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3742	761757.99	4070188.7	9.20E-07	7.88E-07	3.19E-08	0.00E+00	1.74E-06	1.40E-07	1.22E-07	4.84E-09	0.00E+00	2.67E-07	7.11E-08	5.30E-08	1.75E-09	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3743	761792.33	4070299.13	7.98E-07	6.84E-07	2.77E-08	0.00E+00	1.51E-06	1.22E-07	1.05E-07	4.20E-09	0.00E+00	2.31E-07	6.17E-08	4.60E-08	1.52E-09	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3744	761764.47	4070269.53	8.11E-07	6.96E-07	2.82E-08	0.00E+00	1.53E-06	1.24E-07	1.07E-07	4.27E-09	0.00E+00	2.35E-07	6.27E-08	4.68E-08	1.55E-09	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3745	761748.62	4070228.63	8.29E-07	7.11E-07	2.88E-08	0.00E+00	1.57E-06	1.26E-07	1.10E-07	4.36E-09	0.00E+00	2.40E-07	6.41E-08	4.78E-08	1.58E-09	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3746	761738.67	4070267.05	7.29E-07	6.25E-07	2.53E-08	0.00E+00	1.38E-06	1.11E-07	9.64E-08	3.84E-09	0.00E+00	2.11E-07	5.64E-08	4.21E-08	1.39E-09	0.00E+00	9.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3747	761723.14	4070226.98	7.22E-07	6.19E-07	2.51E-08	0.00E+00	1.37E-06	1.10E-07	9.55E-08	3.80E-09	0.00E+00	2.09E-07	5.58E-08	4.17E-08	1.38E-09	0.00E+00	9.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3748	761739.15	4070351.19	5.56E-07	4.77E-07	1.93E-08	0.00E+00	1.05E-06	8.47E-08	7.35E-08	2.92E-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	0.00E+00
3749	761692.31	4070275.65	5.79E-07	4.96E-07	2.01E-08	0.00E+00	1.10E-06	8.82E-08	7.65E-08	3.05E-09	0.00E+00	1.68E-07	4.48E-08	3.34E-08	1.10E-09	0.00E+00	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3750	761683.82	4070253.74	5.76E-07	4.94E-07	2.00E-08	0.00E+00	1.09E-06	8.77E-08	7.61E-08	3.03E-09	0.00E+00	1.67E-07	4.45E-08	3.32E-08	1.10E-09	0.00E+00	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3751	761675.33	4070231.82	5.60E-07	4.80E-07	1.94E-08	0.00E+00	1.06E-06	8.53E-08	7.40E-08	2.94E-09	0.00E+00	1.62E-07	4.33E-08	3.23E-08	1.07E-09	0.00E+00	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3752	761666.84	4070209.91	5.35E-07	4.58E-07	1.86E-08	0.00E+00	1.01E-06	8.15E-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	0.00E+00
3753	761658.34	4070188	5.03E-07	4.31E-07	1.75E-08	0.00E+00	9.51E-07	7.66E-08	6.65E-08	2.65E-09	0.00E+00	1.46E-07	3.89E-08	2.90E-08	9.59E-10	0.00E+00	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3754	761640.62	4070270.48	4.62E-07	3.97E-07	1.61E-08	0.00E+00	8.75E-07	7.05E-08	6.11E-08	2.43E-09	0.00E+00	1.34E-07	3.57E-08	2.67E-08	8.82E-10	0.00E+00	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3755	761632.47	4070249.44	4.51E-07	3.87E-07	1.57E-08	0.00E+00	8.54E-07	6.88E-08	5.97E-08	2.37E-09	0.00E+00	1.31E-07	3.49E-08	2.60E-08	8.60E-10	0.00E+00	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3756	761624.31	4070228.41	4.35E-07	3.73E-07	1.51E-08	0.00E+00	8.22E-07	6.62E-08	5.75E-08	2.29E-09	0.00E+00	1.26E-07	3.36E-08	2.51E-08	8.29E-10	0.00E+00	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3757	761616.16	4070207.37	4.11E-07	3.53E-07	1.43E-08	0.00E+00	7.78E-07	6.27E-08	5.44E-08	2.16E-09	0.00E+00	1.19E-07	3.18E-08	2.37E-08	7.84E-10	0.00E+00	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3758	761608.01	4070186.33	3.85E-07	3.30E-07	1.33E-08	0.00E+00	7.28E-07	5.86E-08	5.08E-08	2.02E-09	0.00E+00	1.11E-07	2.97E-08	2.22E-08	7.33E-10	0.00E+00	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3759	761864.27	4070510.54	2.06E-07	1.76E-07	7.14E-09	0.00E+00	3.89E-07	3.13E-08	2.72E-08	1.08E-09	0.00E+00	5.96E-08	1.59E-08	1.19E-08	3.92E-10	0.00E+00	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3760	761824.4	4070492.24	2.62E-07	2.25E-07	9.10E-09	0.00E+00	4.96E-07	3.99E-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	0.00E+00
3761	761744.66	4070455.66	3.51E-07	3.01E-07	1.22E-08	0.00E+00	6.64E-07	5.34E-08	4.64E-08	1.85E-09	0.00E+00	1.02E-07	2.71E-08	2.02E-08	6.69E-10	0.00E+00	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3762	761589.49	4070266.77	3.73E-07	3.20E-07	1.30E-08	0.00E+00	7.06E-07	5.69E-08	4.94E-08	1.96E-09	0.00E+00	1.08E-07	2.89E-08	2.15E-08	7.12E-10	0.00E+00	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3763	761573.64	4070225.86	3.42E-07	2.93E-07	1.19E-08	0.00E+00	6.47E-07	5.21E-08	4.52E-08	1.80E-09	0.00E+00	9.91E-08	2.64E-08	1.97E-08	6.52E-10	0.00E+00	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3764	761860.95	4070559.98	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	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3765	761629.6	4070453.85	3.14E-07	2.70E-07	1.09E-08	0.00E+00	5.95E-07	4.79E-08	4.16E-08	1.65E-09	0.00E+00	9.11E-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
3766	761550.04	4070293.17	3.17E-07	2.71E-07	1.10E-08	0.00E+00	5.99E-07	4.82E-08	4.19E-08	1.67E-09	0.00E+00	9.18E-08	2.45E-08	1.83E-08	6.04E-10	0.00E+00	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
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	0.00E+00	0.00E+00
3808	761356.96	4070307.82	1.66E-07	1.42E-07	5.76E-09	0.00E+00	3.14E-07	2.53E-08	2.20E-08	8.74E-10	0.00E+00	4.81E-08	1.28E-08	9.58E-09	3.17E-10	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3809	761348.81	4070286.78	1.61E-07	1.38E-07	5.58E-09	0.00E+00	3.04E-07	2.45E-08	2.13E-08	8.46E-10	0.00E+00	4.66E-08	1.24E-08	9.27E-09	3.06E-10	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3810	761340.66	4070265.75	1.55E-07	1.33E-07	5.38E-09	0.00E+00	2.93E-07	2.36E-08	2.05E-08	8.16E-10	0.00E+00	4.50E-08	1.20E-08	8.95E-09	2.96E-10	0.00E+00	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3811	761332.5	4070244.71	1.49E-07	1.28E-07	5.17E-09	0.00E+00	2.82E-07	2.27E-08	1.97E-08	7.84E-10	0.00E+00	4.32E-08	1.15E-08	8.59E-09	2.84E-10	0.00E+00	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3812	761324.35	4070223.67	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	0.00E+00
3813	761316.2	4070202.64	1.36E-07	1.16E-07	4.71E-09	0.00E+00	2.57E-07	2.07E-08	1.79E-08	7.13E-10	0.00E+00	3.93E-08	1.05E-08	7.82E-09	2.58E-10	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3814	761308.05	4070181.6	1.28E-07	1.10E-07	4.46E-09	0.00E+00	2.43E-07	1.96E-08	1.70E-08	6.75E-10	0.00E+00	3.72E-08	9.92E-09	7.40E-09	2.45E-10	0.00E+00	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3815	761847.8	4070859.79	3.59E-08	3.08E-08	1.25E-09	0.00E+00	6.79E-08	5.47E-09	4.75E-09	1.89E-10	0.00E+00	1.04E-08	2.77E-09	2.07E-09	6.84E-11	0.00E+00	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3816	761827	4070850.25	3.96E-08	3.39E-08	1.37E-09	0.00E+00	7.49E-08	6.03E-09	5.23E-09	2.08E-10	0.00E+00	1.15E-08	3.06E-09	2.28E-09	7.55E-11	0.00E+00	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3817	761806.19	4070840.7	4.38E-08	3.75E-08	1.52E-09	0.00E+00	8.28E-08	6.67E-09	5.79E-09	2.30E-10	0.00E+00	1.27E-08	3.38E-09	2.52E-09	8.34E-11	0.00E+00	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3818	761785.39	4070831.16	4.85E-08	4.16E-08	1.68E-09	0.00E+00	9.17E-08	7.39E-09	6.41E-09	2.55E-10	0.00E+00	1.41E-08	3.75E-09	2.80E-09	9.24E-11	0.00E+00	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3819	761764.59	4070821.62	5.37E-08	4.61E-08	1.87E-09	0.00E+00	1.02E-07	8.19E-09	7.10E-09	2.83E-10	0.00E+00	1.56E-08	4.15E-09	3.10E-09	1.02E-10	0.00E+00	7.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3820	761743.78	4070812.07	5.95E-08	5.10E-08	2.06E-09	0.00E+00	1.13E-07	9.06E-09	7.86E-09	3.13E-10	0.00E+00	1.72E-08	4.60E-09	3.43E-09	1.13E-10	0.00E+00	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3821	761722.98	4070802.53	6.55E-08	5.61E-08	2.27E-09	0.00E+00	1.24E-07	9.97E-09	8.65E-09	3.44E-10	0.00E+00	1.90E-08	5.06E-09	3.78E-09	1.25E-10	0.00E+00	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3822	761702.18	4070792.99	7.18E-08	6.16E-08	2.49E-09	0.00E+00	1.36E-07	1.09E-08	9.50E-09	3.78E-10	0.00E+00	2.08E-08	5.55E-09	4.14E-09	1.37E-10	0.00E+00	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3823	761681.37	4070783.44	7.84E-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	6.06E-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	0.00E+00
3824	761660.57	4070773.9	8.52E-08	7.31E-08	2.96E-09	0.00E+00	1.61E-07	1.30E-08	1.13E-08	4.48E-10	0.00E+00	2.47E-08	6.59E-09	4.92E-09	1.62E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3825	761639.77	4070764.36	9.21E-08	7.90E-08	3.20E-09	0.00E+00	1.74E-07	1.40E-08	1.22E-08	4.85E-10	0.00E+00	2.67E-08	7.12E-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	0.00E+00
3826	761618.96	4070754.81	9.94E-08	8.52E-08	3.45E-09	0.00E+00	1.88E-07	1.51E-08	1.31E-08	5.23E-10	0.00E+00	2.88E-08	7.68E-09	5.73E-09	1.89E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3827	761598.16	4070745.27	1.07E-07	9.13E-08	3.70E-09	0.00E+00	2.02E-07	1.62E-08	1.41E-08	5.60E-10	0.00E+00	3.09E-08	8.23E-09	6.14E-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
3828	761577.36	4070735.73	1.14E-07	9.73E-08	3.94E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.97E-10	0.00E+00	3.29E-08	8.78E-09	6.55E-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
3829	761556.55	4070726.18	1.21E-07	1.03E-07	4.19E-09	0.00E+00	2.28E-07	1.84E-08	1.59E-08	6.35E-10	0.00E+00	3.50E-08	9.32E-09	6.96E-09	2.30E-10	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3830	761535.75	4070716.64	1.27E-07	1.09E-07	4.41E-09	0.00E+00	2.40E-07	1.94E-08	1.68E-08	6.68E-10	0.00E+00	3.68E-08	9.82E-09	7.33E-09	2.42E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3831	761514.95	4070707.1	1.33E-07	1.14E-07	4.61E-09	0.00E+00	2.51E-07	2.02E-08	1.76E-08	6.99E-10	0.00E+00	3.85E-08	1.03E-08	7.67E-09	2.53E-10	0.00E+00	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3832	761494.14	4070697.55	1.38E-07	1.18E-07	4.79E-09	0.00E+00	2.61E-07	2.10E-08	1.82E-08	7.26E-10	0.00E+00	4.00E-08	1.07E-08	7.96E-09	2.63E-10	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3833	761410.93	4070659.38	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	0.00E+00
3834	761381.86	4070628.49	1.53E-07	1.31E-07	5.32E-09	0.00E+00	2.90E-07	2.34E-08	2.03E-08	8.07E-10	0.00E+00	4.44E-08	1.18E-08	8.84E-09	2.92E-10	0.00E+00	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3835	761373.59	4070607.15	1.57E-07	1.34E-07	5.44E-09	0.00E+00	2.97E-07	2.39E-08	2.07E-08	8.25E-10	0.00E+00	4.54E-08	1.21E-08	9.04E-09	2.99E-10	0.00E+00	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3836	761365.32	4070585.81	1.59E-07	1.37E-07	5.53E-09	0.00E+00	3.01E-07	2.43E-08	2.11E-08	8.38E-10	0.00E+00	4.62E-08	1.23E-08	9.19E-09	3.04E-10	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3837	761357.05	4070564.47	1.61E-07	1.38E-07	5.57E-09	0.00E+00	3.04E-07	2.45E-08	2.12E-08	8.45E-10	0.00E+00	4.65E-08	1.24E-08	9.26E-09	3.06E-10	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3838	761348.77	4070543.13	1.61E-07	1.38E-07	5.57E-09	0.00E+00	3.04E-07	2.45E-08	2.12E-08	8.45E-10	0.00E+00	4.65E-08	1.24E-08	9.26E-09	3.06E-10	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3839	761340.5	4070521.79	1.60E-07	1.37E-07	5.55E-09	0.00E+00	3.02E-07	2.44E-08	2.11E-08	8.41E-10	0.00E+00	4.63E-08	1.24E-08	9.22E-09	3.05E-10	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3840	761332.23	4070500.45	1.58E-07	1.36E-07	5.50E-09	0.00E+00	3.00E-07	2.41E-08	2.09E-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	0.00E+00
3841	761323.96	4070479.1	1.57E-07	1.34E-07	5.43E-09	0.00E+00	2.96E-07	2.38E-08	2.07E-08	8.23E-10	0.00E+00	4.54E-08	1.21E-08	9.03E-09	2.98E-10	0.00E+00	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3842	761315.69	4070457.76	1.54E-07	1.32E-07	5.34E-09	0.00E+00	2.91E-07	2.35E-08	2.04E-08	8.10E-10	0.00E+00	4.46E-08	1.19E-08	8.88E-09	2.93E-10	0.00E+00	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3843	761307.42	4070436.42	1.51E-07	1.29E-07	5.22E-09	0.00E+00	2.85E-07	2.29E-08	1.99E-08	7.92E-10	0.00E+00	4.36E-08	1.16E-08	8.68E-09	2.87E-10	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3844	761299.15	4070415.08	1.47E-07	1.26E-07	5.10E-09	0.00E+00	2.78E-07	2.24E-08	1.94E-08	7.73E-10	0.00E+00	4.26E-08	1.14E-08	8.47E-09	2.80E-10	0.00E+00	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3845	761290.88	4070393.74	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	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3846	761282.61	4070372.4	1.40E-07	1.20E-07	4.87E-09	0.00E+00	2.65E-07	2.14E-08	1.85E-08	7.38E-10	0.00E+00	4.06E-08	1.08E-08	8.09E-09	2.67E-10	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3847	761274.34	4070351.06	1.37E-07	1.18E-07	4.76E-09	0.00E+00	2.60E-07	2.09E-08	1.81E-08	7.22E-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
3848	761266.07	4070329.72	1.34E-07	1.15E-07	4.64E-09	0.00E+00	2.53E-07	2.03E-08	1.77E-08	7.03E-10	0.00E+00	3.87E-08	1.03E-08	7.70E-09	2.55E-10	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3849	761257.8	4070308.37	1.29E-07	1.11E-07	4.49E-09	0.00E+00	2.45E-07	1.97E-08	1.71E-08	6.80E-10	0.00E+00	3.75E-08	9.99E-09	7.46E-09	2.46E-10	0.00E+00	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3850	761249.53	4070287.03	1.25E-07	1.07E-07	4.33E-09	0.00E+00	2.36E-07	1.90E-08	1.65E-08	6.56E-10	0.00E+00	3.62E-08	9.64E-09	7.20E-09	2.38E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3851	761241.26	4070265.69	1.20E-07	1.03E-07	4.17E-09	0.00E+00	2.27E-07	1.83E-08	1.59E-08	6.32E-10	0.00E+00	3.48E-08	9.29E-09	6.93E-09	2.29E-10	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3852	761232.99	4070244.35	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	0.00E+00
3853	761224.72	4070223.01	1.11E-07	9.53E-08	3.86E-09	0.00E+00	2.10E-07	1.69E-08	1.47E-08	5.85E-10	0.00E+00	3.22E-08	8.59E-09	6.41E-09	2.12E-10	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3854	761216.45	4070201.67	1.06E-07	9.09E-08	3.68E-09	0.00E+00	2.01E-07	1.62E-08	1.40E-08	5.58E-10	0.00E+00	3.07E-08	8.19E-09	6.11E-09	2.02E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3855	761208.18	4070180.33	1.01E-07	8.64E-08	3.50E-09	0.00E+00	1.91E-07	1.53E-08	1.33E-08	5.30E-10	0.00E+00	2.92E-08	7.78E-09	5.81E-09	1.92E-10	0.00E+00	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3856	761868.6	4070869.33	3.26E-08	2.80E-08	1.13E-09	0.00E+00	6.18E-08	4.97E-09	4.32E-09	1.72E-10	0.00E+00	9.46E-09	2.52E-09	1.88E-09	6.22E-11	0.00E+00	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3857	761915.87	4070871.44	2.83E-08	2.42E-08	9.81E-10	0.00E+00	5.35E-08	4.31E-09	3.74E-09	1.49E-10	0.00E+00	8.19E-09	2.18E-09	1.63E-09	5.39E-11	0.00E+00	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3858	761843.11	4070959.59	2.62E-08	2.25E-08	9.10E-10	0.00E+00	4.96E-08	3.99E-09	3.47E-09	1.38E-10	0.00E+00	7.60E-09	2.03E-09	1.51E-09	5.00E-11	0.00E+00	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3859	761822.08	4070949.94	2.86E-08	2.45E-08	9.93E-10	0.00E+00	5.41E-08	4.36E-09	3.78E-09	1.50E-10	0.00E+00	8.29E-09	2.21E-09	1.65E-09	5.45E-11	0.00E+00	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3860	761801.05	4070940.29	3.12E-08	2.67E-08	1.08E-09	0.00E+00	5.90E-08	4.75E-09	4.12E-09	1.64E-10	0.00E+00	9.04E-09	2.41E-09	1.80E-09	5.94E-11	0.00E+00	4.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3861	761780.01	4070930.64	3.41E-08	2.92E-08	1.18E-09	0.00E+00	6.45E-08	5.20E-09	4.51E-09	1.79E-10	0.00E+00	9.88E-09	2.64E-09	1.97E-09	6.50E-11	0.00E+00	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3862	761758.98	4070920.99	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
3863	761737.95	4070911.34	4.14E-08	3.55E-08	1.44E-09	0.00E+00	7.83E-08	6.30E-09	5.47E-09	2.18E-10	0.00E+00	1.20E-08	3.20E-09	2.39E-09	7.89E-11	0.00E+00	5.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3864	761716.92	4070901.7	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	8.67E-11	0.00E+00	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3865	761695.89	4070892.05	5.00E-08	4.28E-08	1.73E-09	0.00E+00	9.45E-08	7.61E-09	6.60E-09	2.63E-10	0.00E+00	1.45E-08	3.86E-09	2.88E-09	9.52E-11	0.00E+00	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3866	761674.86	4070882.4	5.49E-08	4.71E-08	1.91E-09	0.00E+00	1.04E-07	8.36E-09	7.26E-09	2.89E-10	0.00E+00	1.59E-08	4.24E-09	3.17E-09	1.05E-10	0.00E+00	7.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3867	761653.82	4070872.75	5.99E-08	5.14E-08	2.08E-09	0.00E+00	1.13E-07	9.13E-09	7.92E-09	3.15E-10	0.00E+00	1.74E-08	4.63E-09	3.45E-09	1.14E-10	0.00E+00	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3868	761632.79	4070863.1	6.50E-08	5.57E-08	2.26E-09	0.00E+00	1.23E-07	9.90E-09	8.59E-09	3.42E-10	0.00E+00	1.88E-08	5.02E-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	0.00E+00
3869	761611.76	4070853.45	6.99E-08	6.00E-08	2.43E-09	0.00E+00	1.32E-07	1.07E-08	9.24E-09	3.68E-10	0.00E+00	2.03E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3870	761590.73	4070843.81	7.51E-08	6.44E-08	2.61E-09	0.00E+00	1.42E-07	1.14E-08	9.93E-09	3.95E-10	0.00E+00	2.18E-08	5.81E-09	4.33E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3871	761569.7	4070834.16	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	0.00E+00
3872	761548.66	4070824.51	8.58E-08	7.36E-08	2.98E-09	0.00E+00	1.62E-07	1.31E-08	1.13E-08	4.51E-10	0.00E+00	2.49E-08	6.63E-09	4.95E-09	1.64E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3873	761527.63	4070814.86	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	0.00E+00
3874	761506.6	4070805.21	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	7.42E-09	5.54E-09	1.83E-10	0.00E+00	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3875	761485.57	4070795.57	1.01E-07	8.65E-08	3.50E-09	0.00E+00	1.91E-07	1.54E-08	1.33E-08	5.31E-10	0.00E+00	2.92E-08	7.80E-09	5.82E-09	1.92E-10	0.00E+00	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3876	761464.54	4070785.92	1.06E-07	9.05E-08	3.66E-09	0.00E+00	2.00E-07	1.61E-08	1.40E-08	5.55E-10	0.00E+00	3.06E-08	8.16E-09	6.09E-09	2.01E-10	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3877	761443.5	4070776.27	1.10E-07	9.45E-08	3.83E-09	0.00E+00	2.09E-07	1.68E-08	1.46E-08	5.80E-10	0.00E+00	3.19E-08	8.52E-09	6.36E-09	2.10E-10	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3878	761422.47	4070766.62	1.14E-07	9.81E-08	3.97E-09	0.00E+00	2.17E-07	1.74E-08	1.51E-08	6.02E-10	0.00E+00	3.32E-08	8.85E-09	6.60E-09	2.18E-10	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3879	761338.35	4070728.03	1.24E-07	1.06E-07	4.30E-09	0.00E+00	2.35E-07	1.89E-08	1.64E-08	6.52E-10	0.00E+00	3.59E-08	9.59E-09	7.15E-09	2.36E-10	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3880	761308.95	4070696.8	1.28E-07	1.10E-07	4.45E-09	0.00E+00	2.43E-07	1.95E-08	1.69E-08	6.74E-10	0.00E+00	3.71E-08	9.91E-09	7.39E-09	2.44E-10	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3881	761300.59	4070675.23	1.31E-07	1.12E-07	4.55E-09	0.00E+00	2.48E-07	2.00E-08	1.73E-08	6.90E-10	0.00E+00	3.80E-08	1.01E-08	7.56E-09	2.50E-10	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3882	761292.23	4070653.65	1.33E-07	1.14E-07	4.62E-09	0.00E+00	2.52E-07	2.03E-08	1.76E-08	7.01E-10	0.00E+00	3.86E-08	1.03E-08	7.69E-09	2.54E-10	0.00E+00	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3883	761283.87	4070632.08	1.35E-07	1.15E-07	4.67E-09	0.00E+00	2.54E-07	2.05E-08	1.78E-08	7.08E-10	0.00E+00	3.90E-08	1.04E-08	7.76E-09	2.56E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3884	761275.51	4070610.5	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	7.79E-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
3885	761267.15	4070588.92	1.35E-07	1.15E-07	4.68E-09	0.00E+00	2.55E-07	2.05E-08	1.78E-08	7.09E-10	0.00E+00	3.90E-08	1.04E-08	7.77E-09	2.57E-10	0.00E+00	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3886	761258.78	4070567.35	1.34E-07	1.15E-07	4.64E-09	0.00E+00	2.53E-07	2.04E-08	1.77E-08	7.04E-10	0.00E+00	3.88E-08	1.03E-08	7.72E-09	2.55E-10	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3887	761250.42	4070545.77	1.32E-07	1.13E-07	4.59E-09	0.00E+00	2.50E-07	2.02E-08	1.75E-08	6.96E-10	0.00E+00	3.83E-08	1.02E-08	7.63E-09	2.52E-10	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3888	761242.06	4070524.2	1.30E-07	1.11E-07	4.51E-09	0.00E+00	2.46E-07	1.98E-08	1.72E-08	6.84E-10	0.00E+00	3.77E-08	1.01E-08	7.50E-09	2.48E-10	0.00E+00	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3889	761233.7	4070502.62	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	7.35E-09	2.43E-10	0.00E+00	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3890	761225.34	4070481.04	1.25E-07	1.07E-07	4.33E-09	0.00E+00	2.36E-07	1.90E-08	1.65E-08	6.56E-10	0.00E+00	3.61E-08	9.64E-09	7.19E-09	2.38E-10	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3891	761216.98	4070459.47	1.22E-07	1.05E-07	4.25E-09	0.00E+00	2.32E-07	1.86E-08	1.62E-08	6.44E-10	0.00E+00	3.55E-08	9.46E-09	7.06E-09	2.33E-10	0.00E+00	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3892	761208.62	4070437.89	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	0.00E+00
3893	761200.26	4070416.32	1.18E-07	1.01E-07	4.10E-09	0.00E+00	2.23E-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	0.00E+00
3894	761191.89	4070394.74	1.16E-07	9.93E-08	4.02E-09	0.00E+00	2.19E-07	1.77E-08	1.53E-08	6.09E-10	0.00E+00	3.36E-08	8.95E-09	6.68E-09	2.21E-10	0.00E+00	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3895	761183.53	4070373.17	1.14E-07	9.73E-08	3.94E-09	0.00E+00	2.15E-07	1.73E-08	1.50E-08	5.97E-10	0.00E+00	3.29E-08	8.77E-09	6.55E-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
3896	761175.17	4070351.59	1.11E-07	9.51E-08	3.85E-09	0.00E+00	2.10E-07	1.69E-08	1.47E-08	5.84E-10	0.00E+00	3.22E-08	8.58E-09	6.40E-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

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3940	761160.17	4070569.3	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	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3941	761151.73	4070547.54	1.08E-07	9.28E-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
3942	761143.3	4070525.78	1.07E-07	9.14E-08	3.70E-09	0.00E+00	2.02E-07	1.62E-08	1.41E-08	5.61E-10	0.00E+00	3.09E-08	8.24E-09	6.15E-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
3943	761134.87	4070504.02	1.05E-07	8.99E-08	3.64E-09	0.00E+00	1.98E-07	1.60E-08	1.39E-08	5.51E-10	0.00E+00	3.04E-08	8.10E-09	6.05E-09	2.00E-10	0.00E+00	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3944	761126.43	4070482.26	1.03E-07	8.85E-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
3945	761118	4070460.5	1.01E-07	8.68E-08	3.51E-09	0.00E+00	1.92E-07	1.54E-08	1.34E-08	5.33E-10	0.00E+00	2.93E-08	7.82E-09	5.84E-09	1.93E-10	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3946	761109.57	4070438.73	9.94E-08	8.52E-08	3.45E-09	0.00E+00	1.88E-07	1.51E-08	1.31E-08	5.23E-10	0.00E+00	2.88E-08	7.68E-09	5.74E-09	1.90E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3947	761101.13	4070416.97	9.77E-08	8.38E-08	3.39E-09	0.00E+00	1.85E-07	1.49E-08	1.29E-08	5.14E-10	0.00E+00	2.83E-08	7.55E-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	0.00E+00
3948	761092.7	4070395.21	9.61E-08	8.24E-08	3.34E-09	0.00E+00	1.82E-07	1.46E-08	1.27E-08	5.06E-10	0.00E+00	2.79E-08	7.43E-09	5.55E-09	1.83E-10	0.00E+00	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3949	761084.27	4070373.45	9.47E-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	1.81E-10	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3950	761075.83	4070351.69	9.30E-08	7.98E-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	5.37E-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
3951	761067.4	4070329.92	9.11E-08	7.81E-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	7.04E-09	5.26E-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
3952	761058.97	4070308.16	8.89E-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	2.58E-08	6.87E-09	5.13E-09	1.69E-10	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3953	761050.53	4070286.4	8.62E-08	7.39E-08	2.99E-09	0.00E+00	1.63E-07	1.31E-08	1.14E-08	4.54E-10	0.00E+00	2.50E-08	6.67E-09	4.97E-09	1.64E-10	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3954	761042.1	4070264.64	8.29E-08	7.11E-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	6.41E-09	4.78E-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
3955	761033.67	4070242.88	7.94E-08	6.81E-08	2.76E-09	0.00E+00	1.50E-07	1.21E-08	1.05E-08	4.18E-10	0.00E+00	2.30E-08	6.14E-09	4.58E-09	1.51E-10	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3956	761025.23	4070221.12	7.60E-08	6.52E-08	2.64E-09	0.00E+00	1.44E-07	1.16E-08	1.00E-08	4.00E-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	0.00E+00
3957	761016.8	4070199.35	7.26E-08	6.22E-08	2.52E-09	0.00E+00	1.37E-07	1.11E-08	9.60E-09	3.82E-10	0.00E+00	2.10E-08	5.61E-09	4.19E-09	1.38E-10	0.00E+00	9.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3958	761008.37	4070177.59	6.93E-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	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3959	761859.68	4071069.13	1.92E-08	1.65E-08	6.67E-10	0.00E+00	3.64E-08	2.93E-09	2.54E-09	1.01E-10	0.00E+00	5.57E-09	1.49E-09	1.11E-09	3.66E-11	0.00E+00	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3960	761833.86	4071159.24	1.67E-08	1.43E-08	5.79E-10	0.00E+00	3.15E-08	2.54E-09	2.20E-09	8.77E-11	0.00E+00	4.83E-09	1.29E-09	9.62E-10	3.18E-11	0.00E+00	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3961	761812.5	4071149.44	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	0.00E+00
3962	761791.14	4071139.64	1.90E-08	1.63E-08	6.58E-10	0.00E+00	3.59E-08	2.89E-09	2.51E-09	9.97E-11	0.00E+00	5.49E-09	1.47E-09	1.09E-09	3.61E-11	0.00E+00	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3963	761769.78	4071129.84	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	0.00E+00
3964	761748.42	4071120.04	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	4.15E-11	0.00E+00	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3965	761727.06	4071110.24	2.33E-08	2.00E-08	8.09E-10	0.00E+00	4.41E-08	3.55E-09	3.08E-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	0.00E+00
3966	761705.7	4071100.44	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	0.00E+00
3967	761684.34	4071090.64	2.75E-08	2.36E-08	9.55E-10	0.00E+00	5.20E-08	4.19E-09	3.64E-09	1.45E-10	0.00E+00	7.97E-09	2.13E-09	1.59E-09	5.24E-11	0.00E+00	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3968	761662.98	4071080.84	2.98E-08	2.56E-08	1.04E-09	0.00E+00	5.65E-08	4.55E-09	3.95E-09	1.57E-10	0.00E+00	8.65E-09	2.31E-09	1.72E-09	5.69E-11	0.00E+00	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3969	761641.62	4071071.04	3.24E-08	2.78E-08	1.12E-09	0.00E+00	6.13E-08	4.93E-09	4.28E-09	1.70E-10	0.00E+00	9.39E-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
3970	761620.26	4071061.25	3.51E-08	3.01E-08	1.22E-09	0.00E+00	6.65E-08	5.35E-09	4.64E-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	0.00E+00
3971	761598.9	4071051.45	3.81E-08	3.26E-08	1.32E-09	0.00E+00	7.20E-08	5.80E-09	5.03E-09	2.00E-10	0.00E+00	1.10E-08	2.94E-09	2.20E-09	7.26E-11	0.00E+00	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3972	761577.54	4071041.65	4.11E-08	3.53E-08	1.43E-09	0.00E+00	7.79E-08	6.27E-09	5.44E-09	2.16E-10	0.00E+00	1.19E-08	3.18E-09	2.37E-09	7.84E-11	0.00E+00	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3973	761556.18	4071031.85	4.44E-08	3.80E-08	1.54E-09	0.00E+00	8.39E-08	6.76E-09	5.86E-09	2.33E-10	0.00E+00	1.29E-08	3.43E-09	2.56E-09	8.46E-11	0.00E+00	6.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3974	761534.82	4071022.05	4.77E-08	4.09E-08	1.65E-09	0.00E+00	9.02E-08	7.26E-09	6.30E-09	2.51E-10	0.00E+00	1.38E-08	3.68E-09	2.75E-09	9.09E-11	0.00E+00	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3975	761513.45	4071012.25	5.09E-08	4.36E-08	1.77E-09	0.00E+00	9.62E-08	7.75E-09	6.72E-09	2.68E-10	0.00E+00	1.47E-08	3.93E-09	2.93E-09	9.70E-11	0.00E+00	6.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3976	761492.09	4071002.45	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
3977	761470.73	4070992.65	5.71E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.70E-09	7.54E-09	3.00E-10	0.00E+00	1.65E-08	4.41E-09	3.29E-09	1.09E-10	0.00E+00	7.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3978	761449.37	4070982.85	6.06E-08	5.20E-08	2.10E-09	0.00E+00	1.15E-07	9.24E-09	8.01E-09	3.19E-10	0.00E+00	1.76E-08	4.69E-09	3.50E-09	1.16E-10	0.00E+00	8.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3979	761428.01	4070973.05	6.41E-08	5.50E-08	2.23E-09	0.00E+00	1.21E-07	9.77E-09	8.48E-09	3.37E-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	0.00E+00
3980	761406.65	4070963.26	6.72E-08	5.76E-08	2.33E-09	0.00E+00	1.27E-07	1.02E-08	8.89E-09	3.54E-10	0.00E+00	1.95E-08	5.20E-09	3.88E-09	1.28E-10	0.00E+00	9.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3981	761385.29	4070953.46	7.02E-08	6.02E-08	2.44E-09	0.00E+00	1.33E-07	1.07E-08	9.29E-09	3.70E-10	0.00E+00	2.04E-08	5.43E-09	4.05E-09	1.34E-10	0.00E+00	9.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3982	761363.93	4070943.66	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	0.00E+00
3983	761342.57	4070933.86	7.62E-08	6.53E-08	2.64E-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	4.39E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3984	761321.21	4070924.06	7.89E-08	6.77E-08	2.74E-09	0.00E+00	1.49E-07	1.20E-08	1.04E-08	4.15E-10	0.00E+00	2.29E-08	6.10E-09	4.55E-09	1.50E-10	0.00E+00	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3985	761299.85	4070914.26	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
3986	761278.49	4070904.46	8.39E-08	7.19E-08	2.91E-09	0.00E+00	1.59E-07	1.28E-08	1.11E-08	4.41E-10	0.00E+00	2.43E-08	6.48E-09	4.84E-09	1.60E-10	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3987	761193.05	4070865.27	9.06E-08	7.77E-08	3.14E-09	0.00E+00	1.71E-07	1.38E-08	1.20E-08	4.77E-10	0.00E+00	2.63E-08	7.00E-09	5.23E-09	1.73E-10	0.00E+00	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3988	761163.2	4070833.55	9.39E-08	8.05E-08	3.26E-09	0.00E+00	1.78E-07	1.43E-08	1.24E-08	4.94E-10	0.00E+00	2.72E-08	7.26E-09	5.42E-09	1.79E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3989	761154.7	4070811.64	9.61E-08	8.24E-08	3.34E-09	0.00E+00	1.82E-07	1.46E-08	1.27E-08	5.06E-10	0.00E+00	2.79E-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	0.00E+00
3990	761146.21	4070789.73	9.78E-08	8.38E-08	3.39E-09	0.00E+00	1.85E-07	1.49E-08	1.29E-08	5.14E-10	0.00E+00	2.83E-08	7.56E-09	5.64E-09	1.86E-10	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3991	761137.72	4070767.81	9.89E-08	8.48E-08	3.43E-09	0.00E+00	1.87E-07	1.51E-08	1.31E-08	5.20E-10	0.00E+00	2.87E-08	7.65E-09	5.71E-09	1.89E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3992	761129.23	4070745.9	9.95E-08	8.53E-08	3.45E-09	0.00E+00	1.88E-07	1.52E-08	1.32E-08	5.23E-10	0.00E+00	2.88E-08	7.69E-09	5.74E-09	1.90E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3993	761120.74	4070723.99	9.95E-08	8.54E-08	3.46E-09	0.00E+00	1.88E-07	1.52E-08	1.32E-08	5.24E-10	0.00E+00	2.89E-08	7.69E-09	5.74E-09	1.90E-10	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3994	761112.24	4070702.08	9.92E-08	8.51E-08	3.44E-09	0.00E+00	1.88E-07	1.51E-08	1.31E-08	5.22E-10	0.00E+00	2.88E-08	7.67E-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	0.00E+00
3995	761103.75	4070680.16	9.84E-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	7.60E-09	5.68E-09	1.88E-10	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3996	761095.26	4070658.25	9.72E-08	8.34E-08	3.38E-09	0.00E+00	1.84E-07	1.48E-08	1.29E-08	5.12E-10	0.00E+00	2.82E-08	7.52E-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	0.00E+00
3997	761086.77	4070636.34	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	0.00E+00
3998	761078.28	4070614.42	9.44E-08	8.09E-08	3.28E-09	0.00E+00	1.79E-07	1.44E-08	1.25E-08	4.97E-10	0.00E+00	2.74E-08	7.30E-09	5.45E-09	1.80E-10	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3999	761069.78	4070592.51	9.29E-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	2.69E-08	7.18E-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
4000	761061.29	4070570.6	9.16E-08	7.85E-08	3.18E-09	0.00E+00	1.73E-07	1.40E-08	1.21E-08	4.82E-10	0.00E+00	2.65E-08	7.08E-09	5.28E-09	1.75E-10	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4001	761052.8	4070548.68	9.04E-08	7.75E-08	3.14E-09	0.00E+00	1.71E-07	1.38E-08	1.20E-08	4.76E-10	0.00E+00	2.62E-08	6.99E-09	5.22E-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
4002	761044.31	4070526.77	8.93E-08	7.66E-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	6.90E-09	5.15E-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
4003	761035.82	4070504.86	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	1.68E-10	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4004	761027.32	4070482.95	8.67E-08	7.43E-08	3.01E-09	0.00E+00	1.64E-07	1.32E-08	1.15E-08	4.56E-10	0.00E+00	2.51E-08	6.70E-09	5.00E-09	1.65E-10	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4005	761018.83	4070461.03	8.60E-08	7.38E-08	2.99E-09	0.00E+00	1.63E-07	1.31E-08	1.14E-08	4.53E-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	0.00E+00
4006	761010.34	4070439.12	8.52E-08	7.30E-08	2.96E-09	0.00E+00	1.61E-07	1.30E-08	1.13E-08	4.48E-10	0.00E+00	2.47E-08	6.58E-09	4.91E-09	1.62E-10	0.00E+00	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4007	761001.85	4070417.21	8.43E-08	7.23E-08	2.93E-09	0.00E+00	1.59E-07	1.28E-08	1.11E-08	4.43E-10	0.00E+00	2.44E-08	6.52E-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
4008	760993.36	4070395.29	8.32E-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	6.43E-09	4.80E-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
4009	760984.86	4070373.38	8.19E-08	7.03E-08	2.84E-09	0.00E+00	1.55E-07	1.25E-08	1.08E-08	4.31E-10	0.00E+00	2.37E-08	6.33E-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	0.00E+00
4010	760976.37	4070351.47	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	0.00E+00
4011	760967.88	4070329.56	7.84E-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	6.06E-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	0.00E+00
4012	760959.39	4070307.64	7.61E-08	6.52E-08	2.64E-09	0.00E+00	1.44E-07	1.16E-08	1.01E-08	4.00E-10	0.00E+00	2.20E-08	5.88E-09	4.39E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4013	760950.9	4070285.73	7.37E-08	6.32E-08	2.56E-09	0.00E+00	1.39E-07	1.12E-08	9.74E-09	3.87E-10	0.00E+00	2.13E-08	5.69E-09	4.25E-09	1.40E-10	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4014	760942.4	4070263.82	7.09E-08	6.08E-08	2.46E-09	0.00E+00	1.34E-07	1.08E-08	9.37E-09	3.73E-10	0.00E+00	2.05E-08	5.48E-09	4.09E-09	1.35E-10	0.00E+00	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4015	760933.91	4070241.9	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
4016	760925.42	4070219.99	6.54E-08	5.61E-08	2.27E-09	0.00E+00	1.24E-07	9.97E-09	8.65E-09	3.44E-10	0.00E+00	1.90E-08	5.06E-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	0.00E+00
4017	760916.93	4070198.08	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	0.00E+00
4018	760908.44	4070176.16	6.00E-08	5.15E-08	2.08E-09	0.00E+00	1.14E-07	9.15E-09	7.94E-09	3.16E-10	0.00E+00	1.74E-08	4.64E-09	3.46E-09	1.14E-10	0.00E+00	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4019	761855.22	4071169.04	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	0.00E+00
4020	761829.28	4071259.08	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	0.00E+00
4021	761807.8	4071249.23	1.47E-08	1.26E-08	5.12E-10	0.00E+00	2.79E-08	2.25E-09	1.95E-09	7.75E-11	0.00E+00	4.27E-09	1.14E-09	8.50E-10	2.81E-11	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4022	761786.32	4071239.37	1.56E-08	1.34E-08	5.42E-10	0.00E+00	2.95E-08	2.38E-09	2.06E-09	8.21E-11	0.00E+00	4.52E-09	1.21E-09	9.00E-10	2.98E-11	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4023	761764.83	4071229.52	1.66E-08	1.42E-08	5.75E-10	0.00E+00	3.13E-08	2.52E-09	2.19E-09	8.71E-11	0.00E+00	4.80E-09	1.28E-09	9.55E-10	3.16E-11	0.00E+00	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4024	761743.35	4071219.66	1.76E-08	1.51E-08	6.12E-10	0.00E+00	3.34E-08	2.69E-09	2.33E-09	9.27E-11	0.00E+00	5.11E-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
4025	761721.87	4071209.81	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	0.00E+00
4026	761700.39	4071199.95	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

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4070	760928.06	4070483.25	7.62E-08	6.53E-08	2.64E-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	4.39E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4071	760919.52	4070461.21	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	0.00E+00
4072	760910.98	4070439.17	7.51E-08	6.44E-08	2.61E-09	0.00E+00	1.42E-07	1.14E-08	9.93E-09	3.95E-10	0.00E+00	2.18E-08	5.81E-09	4.33E-09	1.43E-10	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4073	760902.44	4070417.13	7.42E-08	6.37E-08	2.58E-09	0.00E+00	1.40E-07	1.13E-08	9.81E-09	3.91E-10	0.00E+00	2.15E-08	5.74E-09	4.28E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4074	760893.9	4070395.09	7.32E-08	6.27E-08	2.54E-09	0.00E+00	1.38E-07	1.11E-08	9.67E-09	3.85E-10	0.00E+00	2.12E-08	5.66E-09	4.22E-09	1.39E-10	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4075	760885.36	4070373.06	7.16E-08	6.14E-08	2.49E-09	0.00E+00	1.36E-07	1.09E-08	9.47E-09	3.77E-10	0.00E+00	2.08E-08	5.54E-09	4.13E-09	1.37E-10	0.00E+00	9.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4076	760876.82	4070351.02	7.00E-08	6.00E-08	2.43E-09	0.00E+00	1.32E-07	1.07E-08	9.25E-09	3.68E-10	0.00E+00	2.03E-08	5.41E-09	4.04E-09	1.33E-10	0.00E+00	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4077	760868.28	4070328.98	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
4078	760859.74	4070306.94	6.59E-08	5.65E-08	2.29E-09	0.00E+00	1.25E-07	1.00E-08	8.71E-09	3.47E-10	0.00E+00	1.91E-08	5.09E-09	3.80E-09	1.26E-10	0.00E+00	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4079	760851.2	4070284.9	6.38E-08	5.47E-08	2.21E-09	0.00E+00	1.21E-07	9.71E-09	8.43E-09	3.35E-10	0.00E+00	1.85E-08	4.93E-09	3.68E-09	1.22E-10	0.00E+00	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4080	760842.66	4070262.86	6.13E-08	5.25E-08	2.13E-09	0.00E+00	1.16E-07	9.33E-09	8.10E-09	3.22E-10	0.00E+00	1.78E-08	4.73E-09	3.53E-09	1.17E-10	0.00E+00	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4081	760834.12	4070240.83	5.88E-08	5.04E-08	2.04E-09	0.00E+00	1.11E-07	8.96E-09	7.78E-09	3.09E-10	0.00E+00	1.70E-08	4.55E-09	3.39E-09	1.12E-10	0.00E+00	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4082	760825.58	4070218.79	5.66E-08	4.85E-08	1.96E-09	0.00E+00	1.07E-07	8.62E-09	7.48E-09	2.98E-10	0.00E+00	1.64E-08	4.37E-09	3.26E-09	1.08E-10	0.00E+00	7.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4083	760817.04	4070196.75	5.45E-08	4.68E-08	1.89E-09	0.00E+00	1.03E-07	8.31E-09	7.21E-09	2.87E-10	0.00E+00	1.58E-08	4.21E-09	3.15E-09	1.04E-10	0.00E+00	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4084	760808.5	4070174.71	5.25E-08	4.50E-08	1.82E-09	0.00E+00	9.94E-08	8.00E-09	6.94E-09	2.76E-10	0.00E+00	1.52E-08	4.06E-09	3.03E-09	1.00E-10	0.00E+00	7.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4085	761850.76	4071268.94	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	0.00E+00
4086	761825.27	4071359.19	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	0.00E+00
4087	761804.24	4071349.54	1.25E-08	1.08E-08	4.35E-10	0.00E+00	2.37E-08	1.91E-09	1.66E-09	6.60E-11	0.00E+00	3.63E-09	9.69E-10	7.23E-10	2.39E-11	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4088	761783.21	4071339.89	1.32E-08	1.13E-08	4.57E-10	0.00E+00	2.49E-08	2.01E-09	1.74E-09	6.92E-11	0.00E+00	3.81E-09	1.02E-09	7.59E-10	2.51E-11	0.00E+00	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4089	761762.18	4071330.24	1.38E-08	1.19E-08	4.80E-10	0.00E+00	2.62E-08	2.11E-09	1.83E-09	7.28E-11	0.00E+00	4.01E-09	1.07E-09	7.98E-10	2.64E-11	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4090	761741.14	4071320.59	1.46E-08	1.25E-08	5.07E-10	0.00E+00	2.76E-08	2.22E-09	1.93E-09	7.68E-11	0.00E+00	4.23E-09	1.13E-09	8.42E-10	2.78E-11	0.00E+00	2.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4091	761720.11	4071310.95	1.54E-08	1.32E-08	5.36E-10	0.00E+00	2.92E-08	2.35E-09	2.04E-09	8.12E-11	0.00E+00	4.47E-09	1.19E-09	8.90E-10	2.94E-11	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4092	761699.08	4071301.3	1.62E-08	1.39E-08	5.64E-10	0.00E+00	3.07E-08	2.48E-09	2.15E-09	8.55E-11	0.00E+00	4.71E-09	1.26E-09	9.37E-10	3.10E-11	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4093	761678.05	4071291.65	1.72E-08	1.48E-08	5.98E-10	0.00E+00	3.26E-08	2.63E-09	2.28E-09	9.07E-11	0.00E+00	5.00E-09	1.33E-09	9.94E-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
4094	761657.02	4071282	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	3.51E-11	0.00E+00	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4095	761635.98	4071272.35	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	0.00E+00
4096	761614.95	4071262.71	2.10E-08	1.80E-08	7.29E-10	0.00E+00	3.98E-08	3.20E-09	2.78E-09	1.11E-10	0.00E+00	6.09E-09	1.62E-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
4097	761593.92	4071253.06	2.24E-08	1.92E-08	7.76E-10	0.00E+00	4.23E-08	3.41E-09	2.96E-09	1.18E-10	0.00E+00	6.48E-09	1.73E-09	1.29E-09	4.26E-11	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4098	761572.89	4071243.41	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	0.00E+00
4099	761551.86	4071233.76	2.56E-08	2.19E-08	8.88E-10	0.00E+00	4.84E-08	3.90E-09	3.38E-09	1.35E-10	0.00E+00	7.41E-09	1.98E-09	1.48E-09	4.88E-11	0.00E+00	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4100	761530.83	4071224.11	2.75E-08	2.36E-08	9.56E-10	0.00E+00	5.21E-08	4.20E-09	3.64E-09	1.45E-10	0.00E+00	7.98E-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	0.00E+00
4101	761509.79	4071214.46	2.97E-08	2.55E-08	1.03E-09	0.00E+00	5.63E-08	4.53E-09	3.93E-09	1.56E-10	0.00E+00	8.62E-09	2.30E-09	1.72E-09	5.67E-11	0.00E+00	4.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4102	761488.76	4071204.82	3.19E-08	2.73E-08	1.11E-09	0.00E+00	6.03E-08	4.86E-09	4.22E-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	0.00E+00
4103	761467.73	4071195.17	3.41E-08	2.92E-08	1.18E-09	0.00E+00	6.44E-08	5.19E-09	4.50E-09	1.79E-10	0.00E+00	9.87E-09	2.63E-09	1.96E-09	6.49E-11	0.00E+00	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4104	761446.7	4071185.52	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	0.00E+00
4105	761425.67	4071175.87	3.85E-08	3.30E-08	1.34E-09	0.00E+00	7.29E-08	5.87E-09	5.09E-09	2.03E-10	0.00E+00	1.12E-08	2.98E-09	2.22E-09	7.34E-11	0.00E+00	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4106	761404.63	4071166.22	4.08E-08	3.49E-08	1.41E-09	0.00E+00	7.71E-08	6.21E-09	5.39E-09	2.14E-10	0.00E+00	1.18E-08	3.15E-09	2.35E-09	7.77E-11	0.00E+00	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4107	761383.6	4071156.57	4.29E-08	3.68E-08	1.49E-09	0.00E+00	8.12E-08	6.54E-09	5.67E-09	2.26E-10	0.00E+00	1.24E-08	3.32E-09	2.47E-09	8.18E-11	0.00E+00	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4108	761362.57	4071146.93	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	0.00E+00
4109	761341.54	4071137.28	4.71E-08	4.04E-08	1.64E-09	0.00E+00	8.92E-08	7.18E-09	6.23E-09	2.48E-10	0.00E+00	1.37E-08	3.64E-09	2.72E-09	8.99E-11	0.00E+00	6.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4110	761320.51	4071127.63	4.92E-08	4.22E-08	1.71E-09	0.00E+00	9.31E-08	7.50E-09	6.50E-09	2.59E-10	0.00E+00	1.43E-08	3.80E-09	2.84E-09	9.38E-11	0.00E+00	6.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4111	761299.47	4071117.98	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	0.00E+00
4112	761278.44	4071108.33	5.32E-08	4.56E-08	1.85E-09	0.00E+00	1.01E-07	8.11E-09	7.03E-09	2.80E-10	0.00E+00	1.54E-08	4.11E-09	3.07E-09	1.01E-10	0.00E+00	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4113	761257.41	4071098.68	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	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4114	761236.38	4071089.04	5.70E-08	4.89E-08	1.98E-09	0.00E+00	1.08E-07	8.68E-09	7.54E-09	3.00E-10	0.00E+00	1.65E-08	4.41E-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	0.00E+00
4115	761215.35	4071079.39	5.88E-08	5.04E-08	2.04E-09	0.00E+00	1.11E-07	8.96E-09	7.77E-09	3.09E-10	0.00E+00	1.70E-08	4.55E-09	3.39E-09	1.12E-10	0.00E+00	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4116	761194.32	4071069.74	6.06E-08	5.19E-08	2.10E-09	0.00E+00	1.15E-07	9.23E-09	8.01E-09	3.19E-10	0.00E+00	1.76E-08	4.68E-09	3.49E-09	1.15E-10	0.00E+00	8.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4117	761173.28	4071060.09	6.22E-08	5.34E-08	2.16E-09	0.00E+00	1.18E-07	9.48E-09	8.23E-09	3.27E-10	0.00E+00	1.80E-08	4.81E-09	3.59E-09	1.19E-10	0.00E+00	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4118	761152.25	4071050.44	6.38E-08	5.47E-08	2.21E-09	0.00E+00	1.21E-07	9.72E-09	8.43E-09	3.36E-10	0.00E+00	1.85E-08	4.93E-09	3.68E-09	1.22E-10	0.00E+00	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4119	761131.22	4071040.79	6.53E-08	5.60E-08	2.27E-09	0.00E+00	1.24E-07	9.95E-09	8.63E-09	3.43E-10	0.00E+00	1.89E-08	5.05E-09	3.77E-09	1.24E-10	0.00E+00	8.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4120	761047.09	4071002.2	7.01E-08	6.01E-08	2.43E-09	0.00E+00	1.33E-07	1.07E-08	9.26E-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	0.00E+00
4121	761017.7	4070970.98	7.30E-08	6.26E-08	2.53E-09	0.00E+00	1.38E-07	1.11E-08	9.65E-09	3.84E-10	0.00E+00	2.12E-08	5.64E-09	4.21E-09	1.39E-10	0.00E+00	9.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4122	761009.34	4070949.4	7.47E-08	6.40E-08	2.59E-09	0.00E+00	1.41E-07	1.14E-08	9.87E-09	3.93E-10	0.00E+00	2.16E-08	5.77E-09	4.31E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4123	761000.98	4070927.83	7.60E-08	6.52E-08	2.64E-09	0.00E+00	1.44E-07	1.16E-08	1.01E-08	4.00E-10	0.00E+00	2.20E-08	5.88E-09	4.39E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4124	760992.62	4070906.25	7.71E-08	6.61E-08	2.67E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.05E-10	0.00E+00	2.23E-08	5.96E-09	4.44E-09	1.47E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4125	760984.25	4070884.67	7.77E-08	6.67E-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	0.00E+00
4126	760975.89	4070863.1	7.81E-08	6.70E-08	2.71E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.11E-10	0.00E+00	2.26E-08	6.04E-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
4127	760967.53	4070841.52	7.80E-08	6.69E-08	2.71E-09	0.00E+00	1.48E-07	1.19E-08	1.03E-08	4.11E-10	0.00E+00	2.26E-08	6.03E-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
4128	760959.17	4070819.95	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	0.00E+00
4129	760950.81	4070798.37	7.70E-08	6.60E-08	2.67E-09	0.00E+00	1.46E-07	1.17E-08	1.02E-08	4.05E-10	0.00E+00	2.23E-08	5.95E-09	4.44E-09	1.47E-10	0.00E+00	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4130	760942.45	4070776.8	7.61E-08	6.53E-08	2.64E-09	0.00E+00	1.44E-07	1.16E-08	1.01E-08	4.01E-10	0.00E+00	2.21E-08	5.88E-09	4.39E-09	1.45E-10	0.00E+00	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4131	760934.09	4070755.22	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	0.00E+00
4132	760925.72	4070733.64	7.43E-08	6.37E-08	2.58E-09	0.00E+00	1.41E-07	1.13E-08	9.82E-09	3.91E-10	0.00E+00	2.15E-08	5.74E-09	4.29E-09	1.42E-10	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4133	760917.36	4070712.07	7.33E-08	6.28E-08	2.54E-09	0.00E+00	1.39E-07	1.12E-08	9.69E-09	3.86E-10	0.00E+00	2.12E-08	5.67E-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	0.00E+00
4134	760909	4070690.49	7.22E-08	6.19E-08	2.51E-09	0.00E+00	1.37E-07	1.10E-08	9.55E-09	3.80E-10	0.00E+00	2.09E-08	5.58E-09	4.17E-09	1.38E-10	0.00E+00	9.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4135	760900.64	4070668.92	7.12E-08	6.11E-08	2.47E-09	0.00E+00	1.35E-07	1.09E-08	9.42E-09	3.75E-10	0.00E+00	2.06E-08	5.50E-09	4.11E-09	1.36E-10	0.00E+00	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4136	760892.28	4070647.34	7.05E-08	6.05E-08	2.45E-09	0.00E+00	1.33E-07	1.07E-08	9.33E-09	3.71E-10	0.00E+00	2.04E-08	5.45E-09	4.07E-09	1.34E-10	0.00E+00	9.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4137	760883.92	4070625.76	6.99E-08	5.99E-08	2.42E-09	0.00E+00	1.32E-07	1.06E-08	9.24E-09	3.67E-10	0.00E+00	2.02E-08	5.40E-09	4.03E-09	1.33E-10	0.00E+00	9.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4138	760875.56	4070604.19	6.93E-08	5.94E-08	2.40E-09	0.00E+00	1.31E-07	1.06E-08	9.16E-09	3.64E-10	0.00E+00	2.01E-08	5.35E-09	4.00E-09	1.32E-10	0.00E+00	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4139	760867.2	4070582.61	6.89E-08	5.90E-08	2.39E-09	0.00E+00	1.30E-07	1.05E-08	9.10E-09	3.62E-10	0.00E+00	2.00E-08	5.32E-09	3.97E-09	1.31E-10	0.00E+00	9.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4140	760858.83	4070561.04	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	0.00E+00
4141	760850.47	4070539.46	6.84E-08	5.87E-08	2.37E-09	0.00E+00	1.29E-07	1.04E-08	9.05E-09	3.60E-10	0.00E+00	1.98E-08	5.29E-09	3.95E-09	1.30E-10	0.00E+00	9.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4142	760842.11	4070517.89	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	0.00E+00
4143	760833.75	4070496.31	6.81E-08	5.84E-08	2.36E-09	0.00E+00	1.29E-07	1.04E-08	9.00E-09	3.58E-10	0.00E+00	1.97E-08	5.26E-09	3.93E-09	1.30E-10	0.00E+00	9.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4144	760825.39	4070474.73	6.78E-08	5.81E-08	2.35E-09	0.00E+00	1.28E-07	1.03E-08	8.97E-09	3.57E-10	0.00E+00	1.97E-08	5.24E-09	3.91E-09	1.29E-10	0.00E+00	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4145	760817.03	4070453.16	6.74E-08	5.78E-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	5.21E-09	3.89E-09	1.28E-10	0.00E+00	9.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4146	760808.67	4070431.58	6.66E-08	5.71E-08	2.31E-09	0.00E+00	1.26E-07	1.02E-08	8.81E-09	3.51E-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	0.00E+00
4147	760800.31	4070410.01	6.56E-08	5.62E-08	2.28E-09	0.00E+00	1.24E-07	1.00E-08	8.67E-09	3.45E-10	0.00E+00	1.90E-08	5.07E-09	3.78E-09	1.25E-10	0.00E+00	8.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4148	760791.94	4070388.43	6.43E-08	5.51E-08	2.23E-09	0.00E+00	1.22E-07	9.79E-09	8.50E-09	3.38E-10	0.00E+00	1.86E-08	4.97E-09	3.71E-09	1.23E-10	0.00E+00	8.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4149	760783.58	4070366.85	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	0.00E+00
4150	760775.22	4070345.28	6.10E-08	5.23E-08	2.12E-09	0.00E+00	1.15E-07	9.30E-09	8.07E-09	3.21E-10	0.00E+00	1.77E-08	4.72E-09	3.52E-09	1.16E-10	0.00E+00	8.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4151	760766.86	4070323.7	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	0.00E+00
4152	760758.5	4070302.13	5.71E-08	4.90E-08	1.98E-09	0.00E+00	1.08E-07	8.71E-09	7.55E-09	3.01E-10	0.00E+00	1.66E-08	4.42E-09	3.30E-09	1.09E-10	0.00E+00	7.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4153	760750.14	4070280.55	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	0.00E+00
4154	760741.78	4070258.98	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
4155	760733.41	4070237.4	5.15E-08	4.42E-08	1.79E-09	0.00E+00	9.74E-08	7.85E-09	6.81E-09	2.71E-10	0.00E+00	1.49E-08	3.98E-09	2.97E-09	9.82E-11	0.00E+00	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4156	760725.05	4070215.82	4.97E-08	4.26E-08	1.72E-09	0.00E+00	9.40E-08	7.57E-09	6.56E-09	2.61E-10	0.00E+00	1.44E-08	3.84E-09	2.86E-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

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	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	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	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	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	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	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	1.87E-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	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	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	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	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	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	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	0.00E+00
4171	761094.1	4070211.53	8.44E-08	7.24E-08	2.93E-09	0.00E+00	1.60E-07	1.29E-08	1.12E-08	4.44E-10	0.00E+00	2.45E-08	6.52E-09	4.87E-09	1.61E-10	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4172	761093.84	4070254.35	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	0.00E+00
4173	760994.11	4070210.91	7.12E-08	6.11E-08	2.47E-09	0.00E+00	1.35E-07	1.09E-08	9.42E-09	3.75E-10	0.00E+00	2.06E-08	5.50E-09	4.11E-09	1.36E-10	0.00E+00	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4174	760993.84	4070253.73	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	0.00E+00
4175	760894.11	4070210.29	6.16E-08	5.29E-08	2.14E-09	0.00E+00	1.17E-07	9.39E-09	8.15E-09	3.24E-10	0.00E+00	1.79E-08	4.76E-09	3.56E-09	1.18E-10	0.00E+00	8.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4176	760893.84	4070253.12	6.52E-08	5.59E-08	2.26E-09	0.00E+00	1.23E-07	9.94E-09	8.62E-09	3.43E-10	0.00E+00	1.89E-08	5.04E-09	3.76E-09	1.24E-10	0.00E+00	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4177	760794.11	4070209.68	5.37E-08	4.60E-08	1.86E-09	0.00E+00	1.02E-07	8.18E-09	7.10E-09	2.83E-10	0.00E+00	1.56E-08	4.15E-09	3.10E-09	1.02E-10	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4178	760793.84	4070252.5	5.64E-08	4.84E-08	1.96E-09	0.00E+00	1.07E-07	8.60E-09	7.46E-09	2.97E-10	0.00E+00	1.64E-08	4.36E-09	3.26E-09	1.08E-10	0.00E+00	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4179	0	0	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
4180	0	0	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
4181	0	0	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
4182	0	0	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
4183	0	0	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
4184	0	0	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
4185	0	0	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
4186	0	0	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
4187	0	0	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
4188	0	0	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
4189	0	0	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
4190	0	0	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
4191	0	0	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
4192	0	0	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
4193	0	0	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
4194	0	0	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
4195	0	0	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
4196	0	0	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
4197	0	0	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
4198	0	0	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
4199	0	0	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
4200	0	0	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
4201	0	0	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
4202	0	0	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
4203	0	0	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
4204	0	0	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
4205	0	0	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
4206	0	0	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
4207	0	0	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
4208	0	0	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
4209	0	0	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
4210	0	0	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
4211	0	0	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
4212	0	0	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
4213	0	0	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
4214	0	0	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
4215	0	0	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
4216	0	0	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
4217	0	0	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
4218	0	0	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
4219	0	0	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
4220	0	0	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
4221	0	0	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
4222	0	0	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
4223	0	0	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
4224	0	0	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
4225	0	0	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
4226	0	0	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
4227	0	0	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
4228	0	0	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
4229	0	0	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
4230	0	0	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
4231	0	0	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
4232	0	0	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
4233	0	0	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
4234	0	0	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
4235	0	0	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
4236	0	0	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
4237	0	0	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
4238	0	0	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
4239	0	0	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
4240	0	0	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
4241	0	0	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
4242	0	0	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
4243	0	0	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
4244	0	0	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
4245	0	0	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
4246	0	0	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
4247	0	0	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
4248	0	0	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
4249	0	0	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
4250	0	0	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
4251	0	0	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
4252	0	0	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
4253	0	0	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
4254	0	0	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
4255	0	0	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
4256	0	0	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
4257	0	0	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
4258	0	0	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
4259	0	0	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
4260	0	0	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
4261	0	0	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
4262	0	0	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
4263	0	0	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
4264	0	0	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
4265	0	0	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
4266	0	0	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
4267	0	0	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
4268	0	0	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
4269	0	0	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
4270	0	0	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
4271	0	0	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
4272	0	0	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
4273	0	0	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
4274	0	0	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
4275	0	0	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
4276	0	0	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
4277	0	0	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
4278	0	0	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
4279	0	0	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
4280	0	0	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
4281	0	0	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
4282	0	0	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
4283	0	0	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
4284	0	0	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
4285	0	0	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
4286	0	0	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

4287	0	0	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
4288	0	0	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
4289	0	0	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
4290	0	0	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
4291	0	0	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
4292	0	0	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
4293	0	0	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
4294	0	0	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
4295	0	0	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
4296	0	0	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
4297	0	0	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
4298	0	0	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
4299	0	0	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
4300	0	0	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
4301	0	0	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
4302	0	0	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
4303	0	0	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
4304	0	0	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
4305	0	0	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
4306	0	0	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
4307	0	0	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
4308	0	0	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
4309	0	0	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
4310	0	0	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
4311	0	0	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
4312	0	0	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
4313	0	0	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
4314	0	0	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
4315	0	0	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
4316	0	0	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
4317	0	0	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
4318	0	0	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
4319	0	0	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
4320	0	0	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
4321	0	0	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
4322	0	0	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
4323	0	0	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
4324	0	0	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
4325	0	0	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
4326	0	0	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
4327	0	0	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
4328	0	0	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
4329	0	0	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
4330	0	0	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
4331	0	0	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
4332	0	0	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
4333	0	0	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
4334	0	0	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
4335	0	0	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
4336	0	0	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
4337	0	0	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
4338	0	0	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
4339	0	0	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
4340	0	0	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
4341	0	0	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
4342	0	0	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
4343	0	0	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
4344	0	0	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
4345	0	0	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
4346	0	0	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
4347	0	0	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
4348	0	0	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
4349	0	0	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
4350	0	0	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
4351	0	0	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
4352	0	0	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
4353	0	0	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
4354	0	0	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
4355	0	0	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
4356	0	0	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
4357	0	0	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
4358	0	0	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
4359	0	0	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
4360	0	0	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
4361	0	0	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
4362	0	0	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
4363	0	0	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
4364	0	0	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
4365	0	0	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
4366	0	0	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
4367	0	0	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
4368	0	0	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
4369	0	0	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
4370	0	0	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
4371	0	0	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
4372	0	0	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
4373	0	0	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
4374	0	0	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
4375	0	0	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
4376	0	0	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
4377	0	0	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
4378	0	0	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
4379	0	0	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
4380	0	0	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
4381	0	0	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
4382	0	0	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
4383	0	0	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
4384	0	0	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
4385	0	0	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
4386	0	0	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
4387	0	0	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
4388	0	0	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
4389	0	0	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
4390	0	0	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
4391	0	0	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
4392	0	0	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
4393	0	0	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
4394	0	0	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
4395	0	0	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
4396	0	0	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
4397	0	0	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
4398	0	0	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
4399	0	0	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
4400	0	0	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
4401	0	0	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
4402	0	0	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
4403	0	0	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
4404	0	0	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
4405	0	0	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
4406	0	0	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
4407	0	0	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
4408	0	0	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
4409	0	0	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
4410	0	0	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
4411	0	0	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
4412	0	0	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
4413	0	0	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
4414	0	0	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
4415	0	0	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
4416	0	0	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

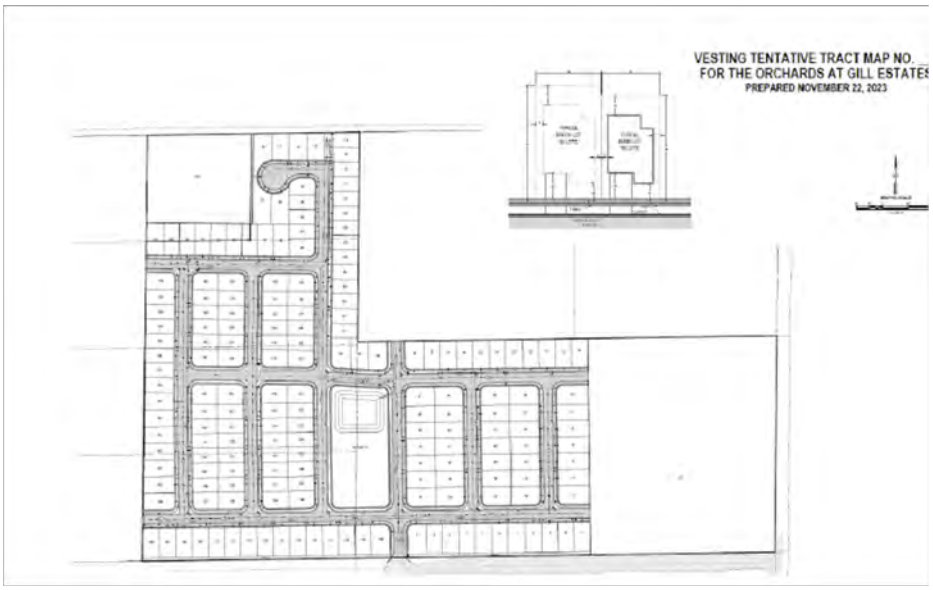
7.2 Appendix B: Biological Resource Assessment

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:

PRECISION CIVIL ENGINEERING, INC

Prepared by:

ARGONAUT ECOLOGICAL CONSULTING, INC.

April 10, 2024

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1.0 EXECUTIVE SUMMARY AND INTRODUCTION

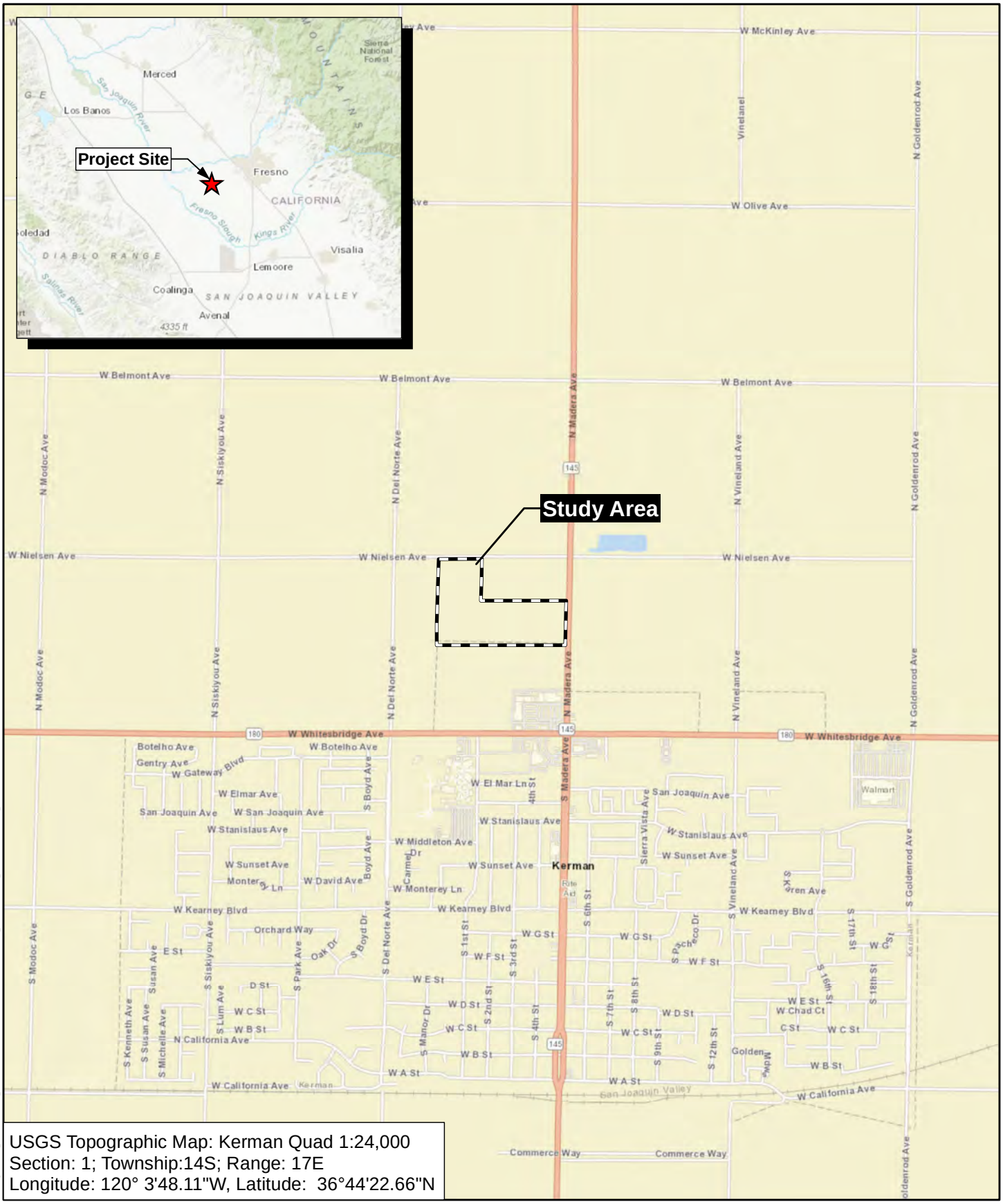
EXECUTIVE SUMMARY

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.



USGS Topographic Map: Kerman Quad 1:24,000
Section: 1; Township:14S; Range: 17E
Longitude: 120° 3'48.11"W, Latitude: 36°44'22.66"N

N

0 1,000 2,000
Feet

Figure 1

REGIONAL LOCATION AND VICINITY

ORCHARD AT GILL ESTATES

City of Kerman, Fresno County, CA

ARGONAUT ECOLOGICAL CONSULTING INC.

Basemap Source: ESRI (2024)

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.



N

0 150 300
Feet

Study Area

Figure 2

STUDY AREA/AERIAL

ORCHARD AT GILL ESTATES

City of Kerman, Fresno County, CA

ARGONAUT ECOLOGICAL CONSULTING INC.

Aerial Source: Google Earth (05/2023)

G:\Projects\Argonaut_Ecological\Orchard at Gill Estates\MXD\orchard_gill_estates_study_area_figure_2.mxd

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 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.

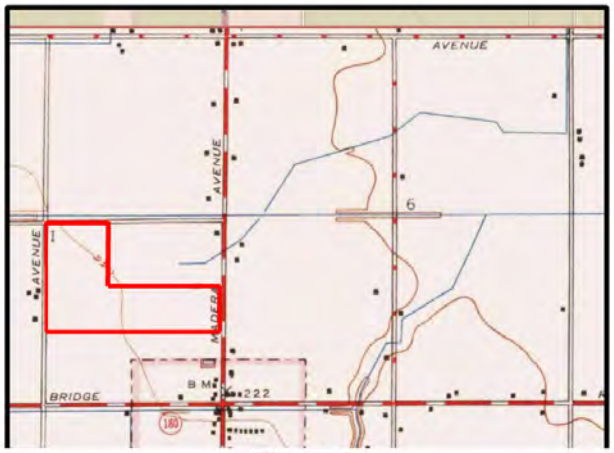


Figure 3
1942 Topographic Map

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 (CNDDB) 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 CNDDB 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 CNDDB 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 nitratoides 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.

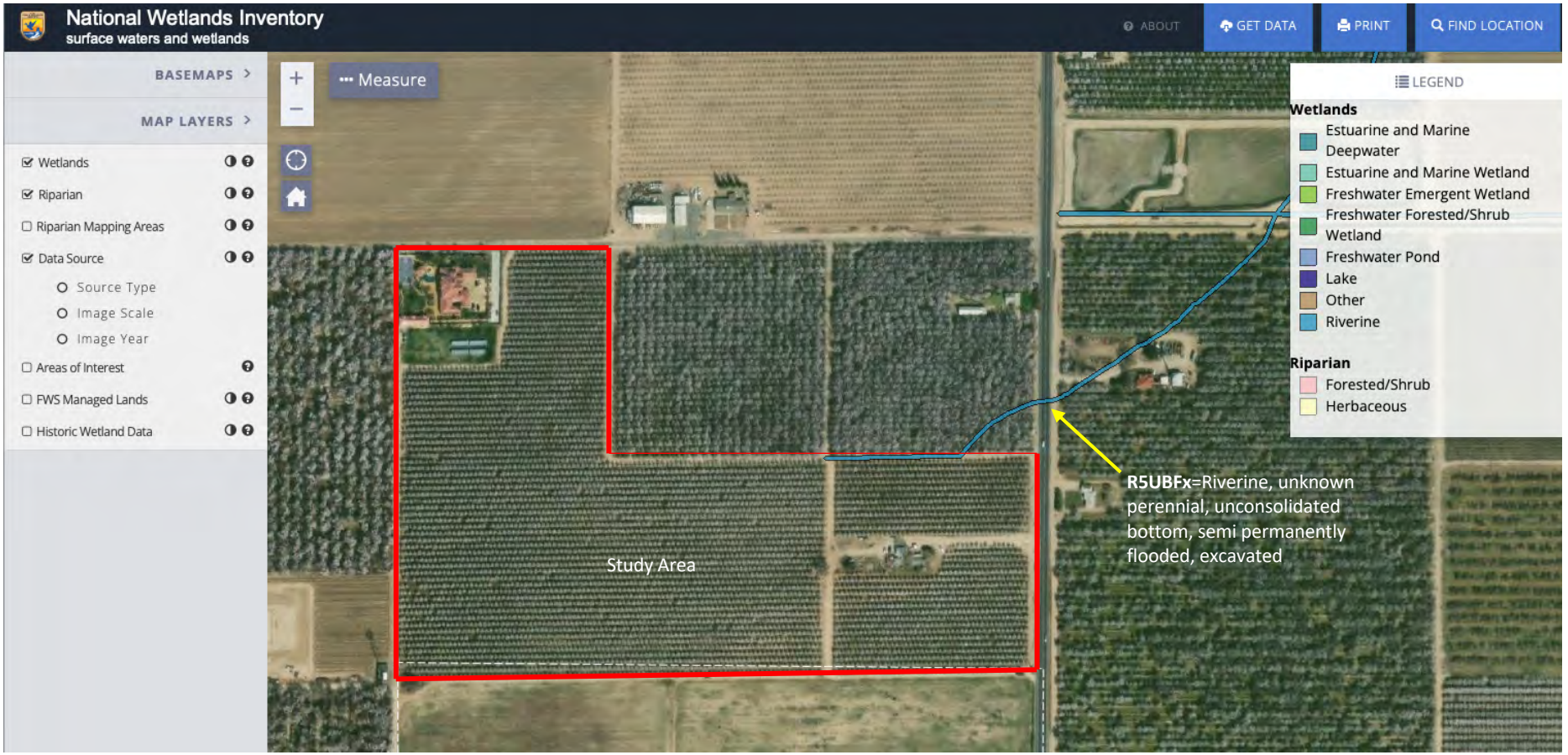


Figure 4

National Wetland Inventory (NWIS) Mapping

Project: The Orchards at Gill Estates, Kerman, CA

ARGONAUT ECOLOGICAL CONSULTING, INC.

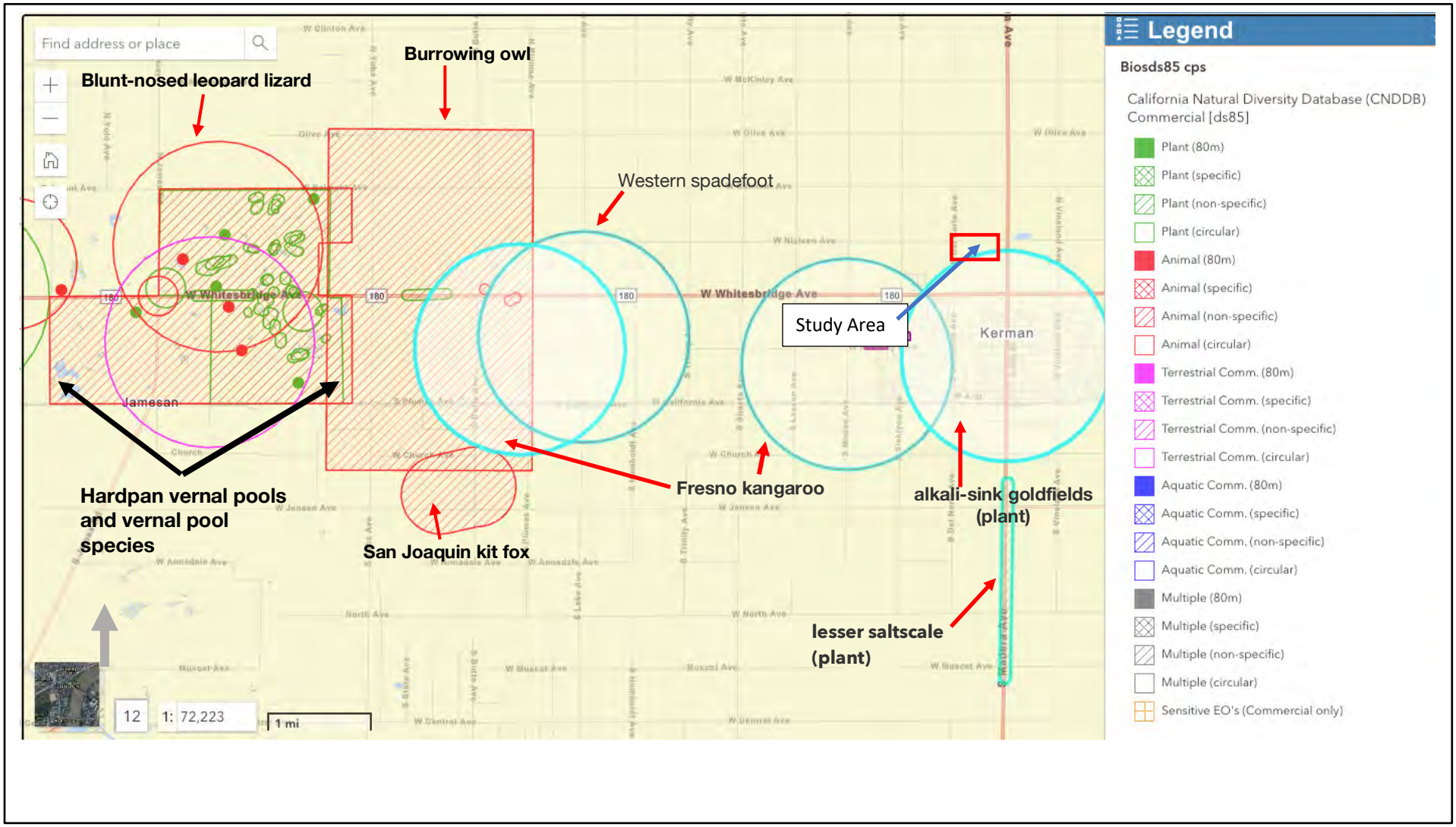


Figure 5

CNDDB Bios Map

ARGONAUT ECOLOGICAL CONSULTING, INC.

Table 1
Summary of Special Status Species, Potential Occurrence, and Impact

Common Name	Scientific Name	Stat	Effects[2]	Occurrence in the Study Area[3]
Birds				
Burrowing owl	*Athenea cunicularia*	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	*Dipodomys nitratoides exillis*	FE/--	NE	**Absent.** Grassland and alkali desert scrub habitat. Suitable habitat is not present.
San Joaquin kit fox	*Vulpes macrotis mutica*	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	*Spea hammondii*	--/--	NE	**Absent.** Requires seasonal wetlands for breeding and no suitable habitat on or near the Study Area.
Plants				
Heartscale	*Atriplex cordulata var. cordulata*	--/--	NE	**Absent:** Occurs in seasonal wetlands and grasslands**.** Species not encountered during a survey and suitable habitat not present.
Lesser salt scale	*Atriplex minuscula*	--/--	NE	**Absent.** Occurs in alkali sink and shadescale scrub, and sometimes grasslands. Suitable habitat not present.
Palmate-bracted bird's-beak	*Chloropyron palmatum*	--/--	NE	**Absent.** Occurs in seasonal wetlands and shadescale scrub. Suitable habitat not present.
Madera leptosiphon	*Leptosiphon serulatus*	FE/CE	NE	**Absent**. Occurs in yellow pine forests and foothill woodlands. Suitable habitat not present.
Recurved larkspur	*Delphimium recurvatum*	--/--	NE	**Absent**. Occurs in shadescale scrub, foothill woodlands, and Valley grasslands. No suitable habitat present within the Study Area.
Hoover's eriastrum	*Eriastrum hooveri*	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	*Puccinellia simplex*	--/--	NE	**Absent.** Typically found in wetlands within grasslands. Suitable habitat not present within the Study Area.
Alkali-sink goldfields	*Lasthenia chrysantha*	--/--	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: CNDDB = 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 (CNDDB). 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 (CNDDB) Online. Subscription with updates. Available at: URL https://www.wildlife.ca.gov/Data/CNDDB

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.

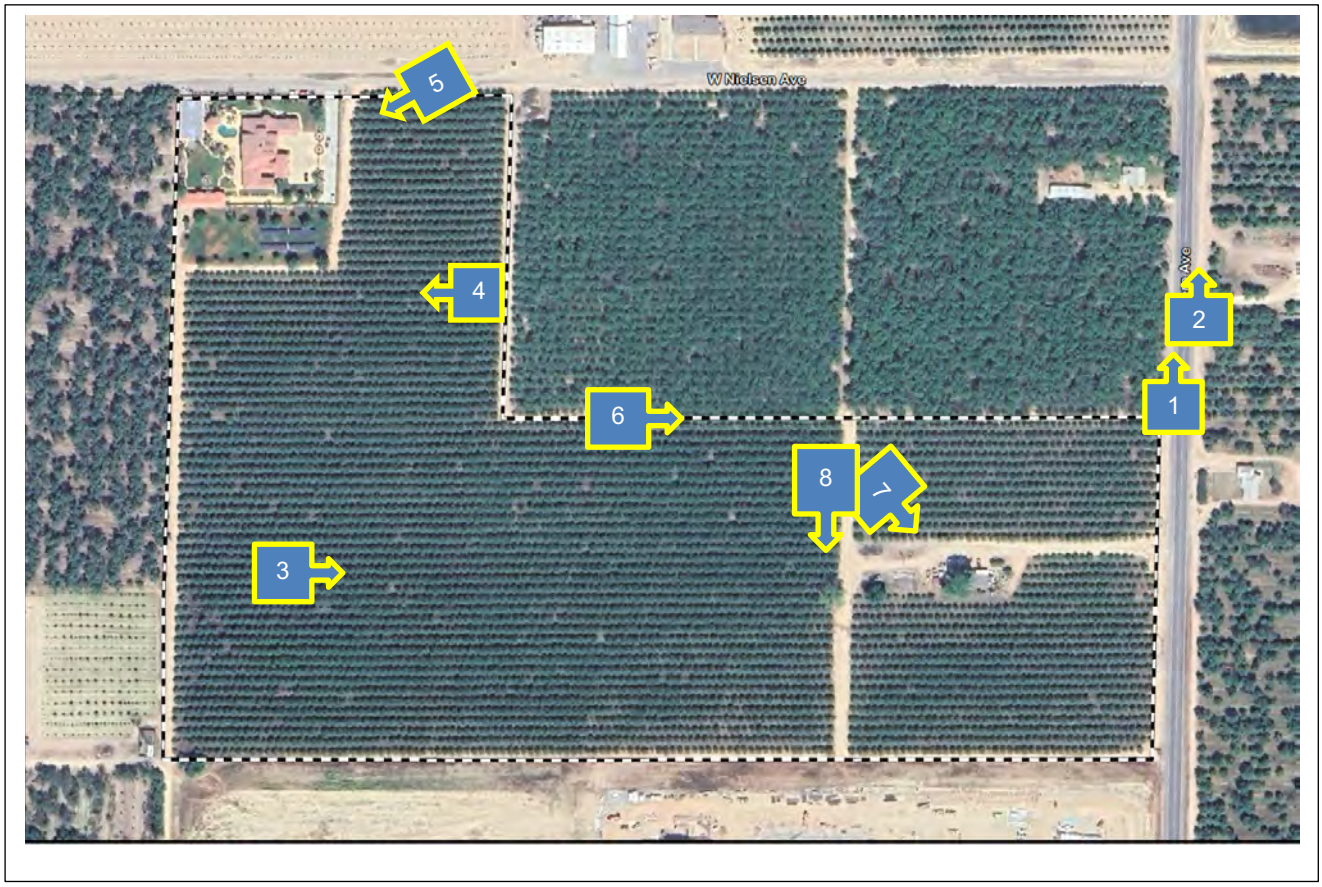
California Wildlife Habitat Relationship (CWHR) Predicted Habitat Suitability Model. https://www.arcgis.com/apps/mapviewer/index.html

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

ARGONAUT ECOLOGICAL CONSULTING, INC.

ARGONAUT ECOLOGICAL CONSULTING, INC.

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 corer of the Study Area.



Photograph 6

View of the main farm road within the Study Area

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.

California Historical Resources Information System



Fresno
Kern
Kings
Madera
Tulare

Southern San Joaquin Valley Information Center
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

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

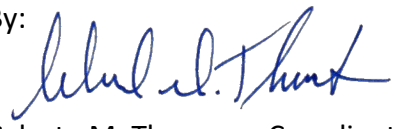
According to the information in our files, there are no recorded resources within the project area, and it is not known if any exist there. There is one recorded resource within the one-half mile radius, P-10-007097, the Houghton Canal.

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

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE 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

February 28, 2024

Shin Tu
Precision Civil Engineering

Via Email to: stu@precisioneng.net

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 well 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.

TABLE IV

SUMMARY OF SHORT-TERM NOISE MEASUREMENT DATA
THE ORCHARD AT GILL ESTATES, KERMAN
MAY 21 & 22, 2024

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,

TR: Traffic AC: Aircraft AG: Agricultural Activities C: Construction Activities B: Birds D: Barking Dogs V:Voices L: Landscaping Activities
Source: WJV Acoustics, Inc.

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.

TABLE VI

DISTANCES TO TRAFFIC NOISE CONTOURS
THE ORCHARD AT GILL ESTATES, KERMAN
CUMULATIVE 2046 CONDITIONS

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

Source: WJV Acoustics, Inc.
JLB Traffic Engineering, Inc.

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 nose 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.

TABLE V

PROJECT-RELATED INCREASES IN TRAFFIC NOISE, dB, L_{dn}
THE ORCHARD AT GILL ESTATES, KERMAN
EXISTING CONDITIONS

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

	PPV (in/sec)		
Equipment	@ 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 nose level contour. If outdoor activity areas of proposed residential land uses are located within the 60 dB Ldn 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

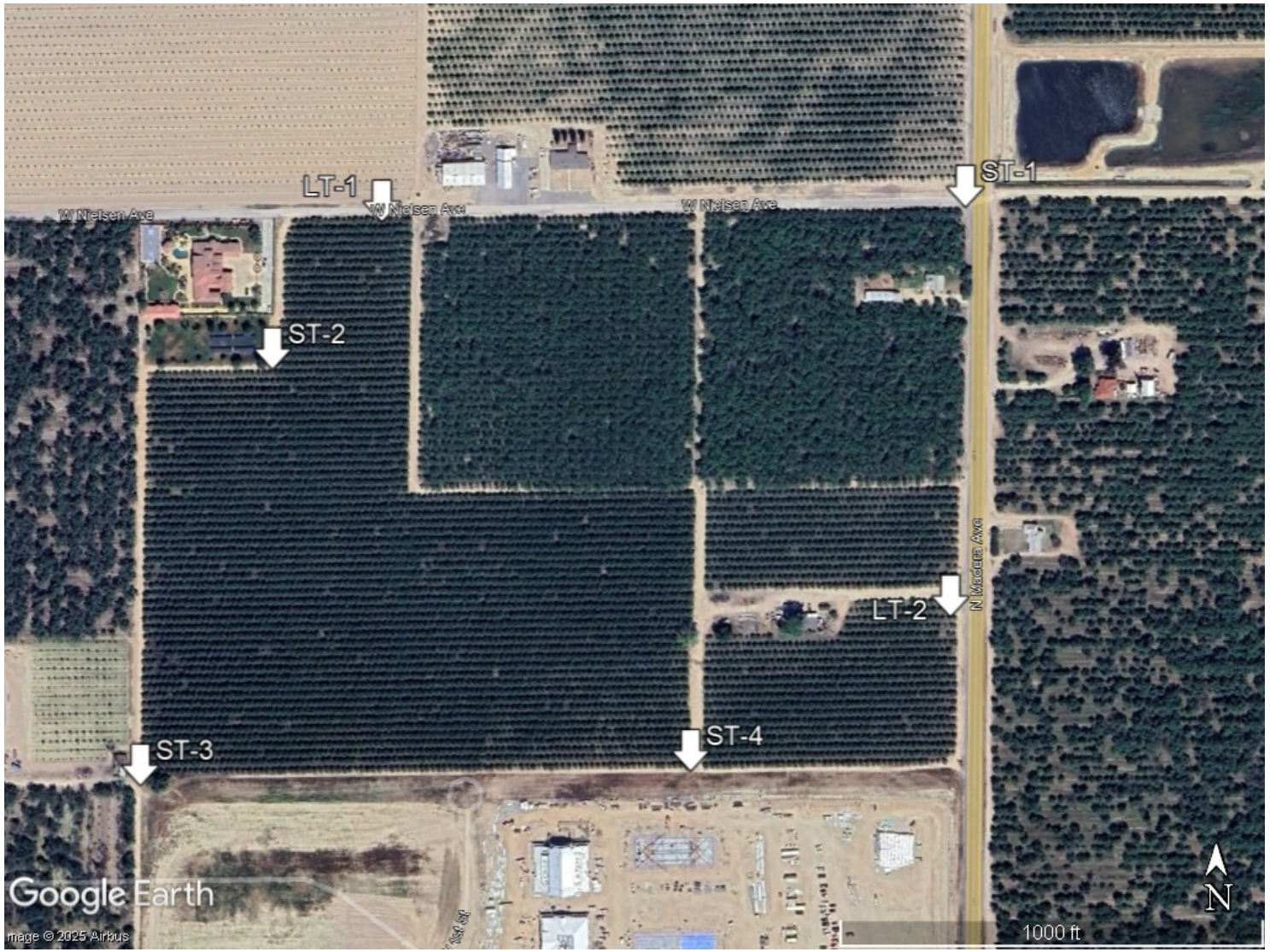


FIGURE 3: HOURLY NOISE LEVELS AT AMBIENT NOISE MEASUREMENT SITE LT-1

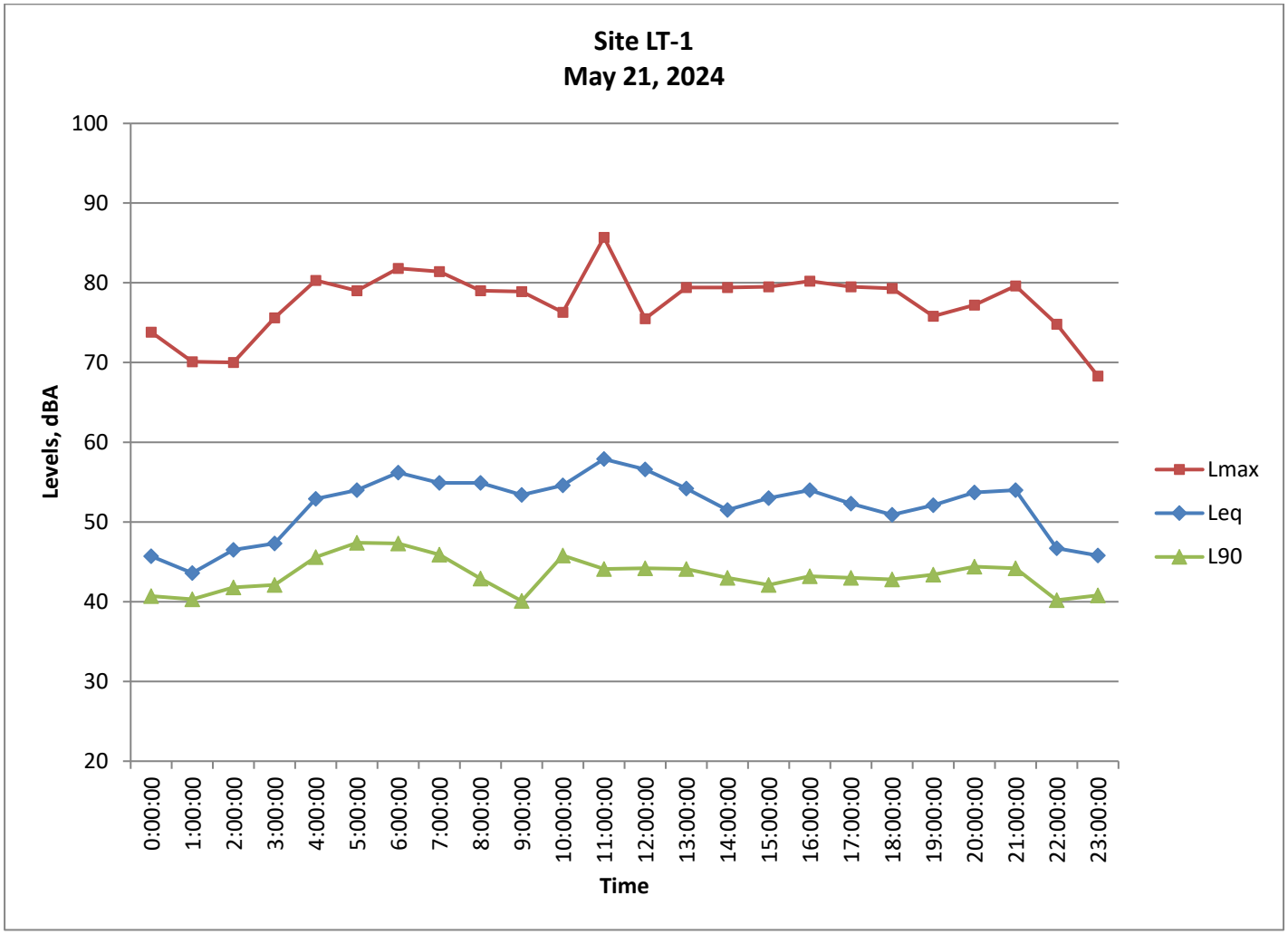


FIGURE 4: AMBIENT NOISE MEASUREMENT SITE LT-1



FIGURE 5: HOURLY NOISE LEVELS AT AMBIENT NOISE MEASUREMENT SITE LT-2

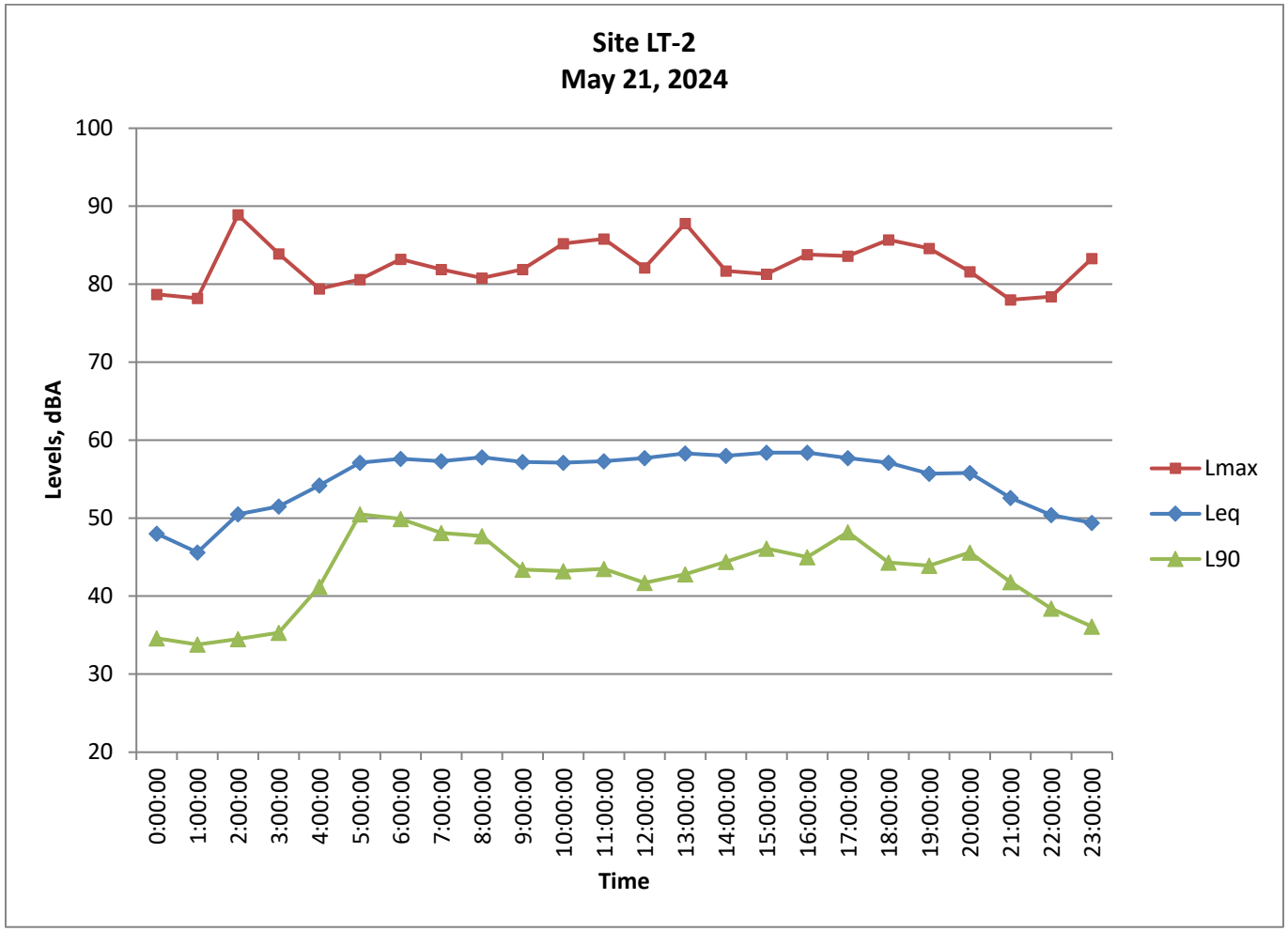
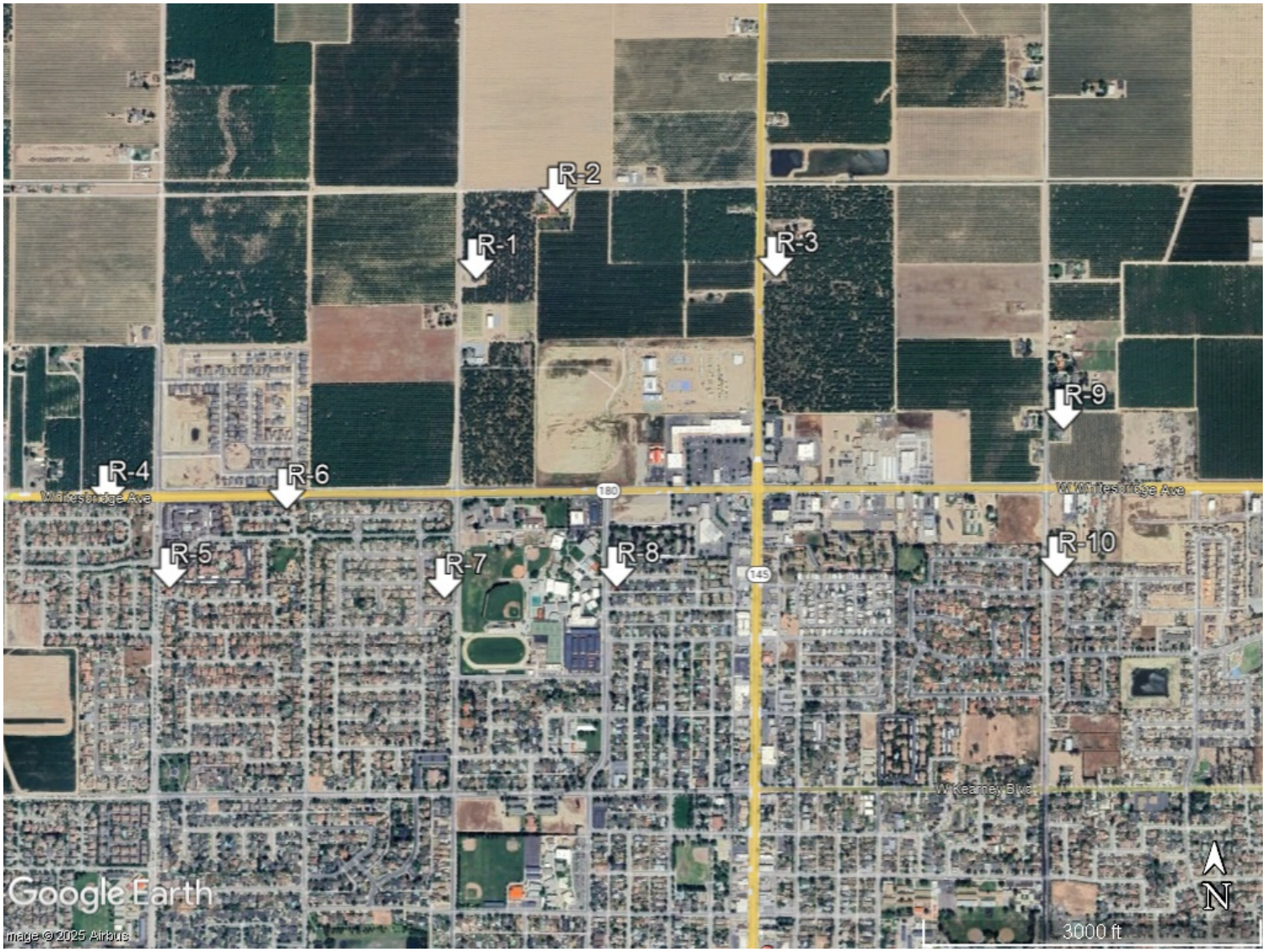


FIGURE 6: AMBIENT NOISE MEASUREMENT SITE LT-2



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.

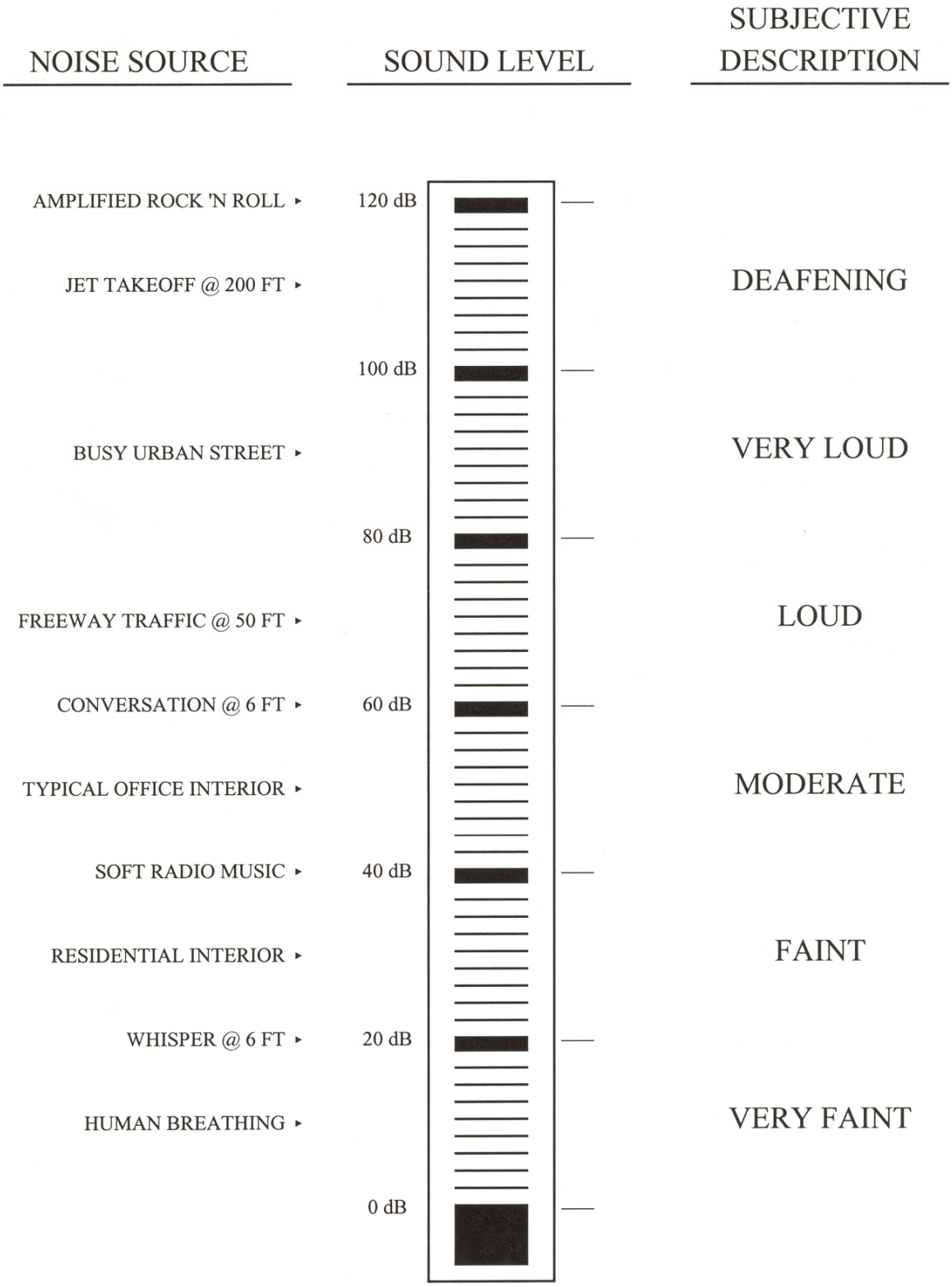
NOISE LEVEL REDUCTION (NLR): The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of "noise level reduction" combines the effect of the transmission loss 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					

Segment	Roadway Name	Segment Description	ADT	%Day	%Evening	%Night	%Med	%Heavy	Speed	Distance	Offset
1	Del Norte	R-1	680	90		10	2	1	35	170	
2	Nielsen	R-2	70	90		10	5	4	35	130	
3	Madera	R-3	8800	90		10	5	4	45	160	
4	Whitesbridge	R-4	7920	90		10	2	1	50	80	
5	Siskiyou	R-5	3630	90		10	2	1	35	150	
6	Whitesbridge	R-6	9470	90		10	2	1	50	90	
7	Del Norte	R-7	3500	90		10	2	1	35	100	
8	First	R-8	2340	90		10	2	1	35	90	
9	Vineland	R-9	700	90		10	2	1	35	150	
10	Vineland	R-10	2890	90		10	2	1	35	80	

WJV Acoustics, Inc
FHWA-RD-77-108
Calculation Sheets
February 18, 2025

Project #:	24-14
Description:	Existing + project
Ldn/Cnel:	Ldn
Site Type:	Soft

Contour Levels (dB) 60 65 70 75

Segment	Roadway Name	Segment Description	ADT	%Day	%Evening	%Night	%Med	%Heavy	Speed	Distance	Offset
1	Del Norte	R-1	680	90		10	2	1	35	170	
2	Nielsen	R-2	140	90		10	5	4	35	130	
3	Madera	R-3	8950	90		10	5	4	45	160	
4	Whitesbridge	R-4	8290	90		10	2	1	50	80	
5	Siskiyou	R-5	3730	90		10	2	1	35	150	
6	Whitesbridge	R-6	10070	90		10	2	1	50	90	
7	Del Norte	R-7	3750	90		10	2	1	35	100	
8	First	R-8	2410	90		10	2	1	35	90	
9	Vineland	R-9	700	90		10	2	1	35	150	
10	Vineland	R-10	2980	90		10	2	1	35	80	

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

Segment	Roadway Name	Segment Description	ADT	%Day	%Evening	%Night	%Med	%Heavy	Speed	Distance	Offset
1	Del Norte	R-1	1420	90		10	2	1	35	170	
2	Nielsen	R-2	280	90		10	5	4	35	130	
3	Madera	R-3	9820	90		10	5	4	45	160	
4	Whitesbridge	R-4	18200	90		10	2	1	50	80	
5	Siskiyou	R-5	6890	90		10	2	1	35	150	
6	Whitesbridge	R-6	23620	90		10	2	1	50	90	
7	Del Norte	R-7	4740	90		10	2	1	35	100	
8	First	R-8	3400	90		10	2	1	35	90	
9	Vineland	R-9	790	90		10	2	1	35	150	
10	Vineland	R-10	3930	90		10	2	1	35	80	

WJV Acoustics, Inc
FHWA-RD-77-108
Calculation Sheets
February 18, 2025

Project #:	24-14
Description:	2046 + project
Ldn/Cnel:	Ldn
Site Type:	Soft

Contour Levels (dB) 60 65 70 75

Segment	Roadway Name	Segment Description	ADT	%Day	%Evening	%Night	%Med	%Heavy	Speed	Distance	Offset
1	Del Norte	R-1	1420	90		10	2	1	35	170	
2	Nielsen	R-2	350	90		10	5	4	35	130	
3	Madera	R-3	9970	90		10	5	4	45	160	
4	Whitesbridge	R-4	18710	90		10	2	1	50	80	
5	Siskiyou	R-5	6860	90		10	2	1	35	150	
6	Whitesbridge	R-6	24090	90		10	2	1	50	90	
7	Del Norte	R-7	4990	90		10	2	1	35	100	
8	First	R-8	3470	90		10	2	1	35	90	
9	Vineland	R-9	790	90		10	2	1	35	150	
10	Vineland	R-10	4020	90		10	2	1	35	80	

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
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Phone: (559) 570-8991
www.JLBtraffic.com

Traffic Engineering, Transportation Planning, & Parking Solutions

Vehicle Miles Traveled Analysis

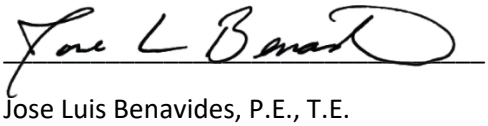
For Orchard Estates located on the Southwest Quadrant of State Route 145 and Nielsen Avenue

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:





Jose Luis Benavides, P.E., T.E.

President

Traffic Engineering, Transportation Planning, & Parking Solutions
516 W. Shaw Ave., Ste. 103
Fresno, CA 93704
Phone: (559) 570-8991
www.JLBtraffic.com

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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 X (1-.13) = 14.01) 14.01 VMT per capita and (25.60 X (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

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 *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

Project Components	*Fresno COG plus Project Regional VMT Results[1]*	*Reduction from VMT Pass-By*	*VMT After Mitigations*	*City of Fresno No Project Regional VMT Threshold[2]*	*Significant VMT Impact?*
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

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	
VMT per capita (j=i/a)	13.9	14.1

** : Obtained from "Fresno_worker_ixxifractions.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 6.1miles.

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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Fresno, CA 93704
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www.JLBtraffic.com

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.

TECHNICON
ENGINEERING SERVICES, INC.

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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PHASE I ENVIRONMENTAL SITE ASSESSMENT
ORCHARDS AT GILL ESTATES
HIGHWAY 145 & NIELSEN AVENUE
KERMAN, CALIFORNIA

1.0 SUMMARY

We have performed a Phase l 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 Environsite 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 Environsite Radius Map Report is attached in Appendix C.

For those listed sites where the Environsite-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 thorough fares 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.

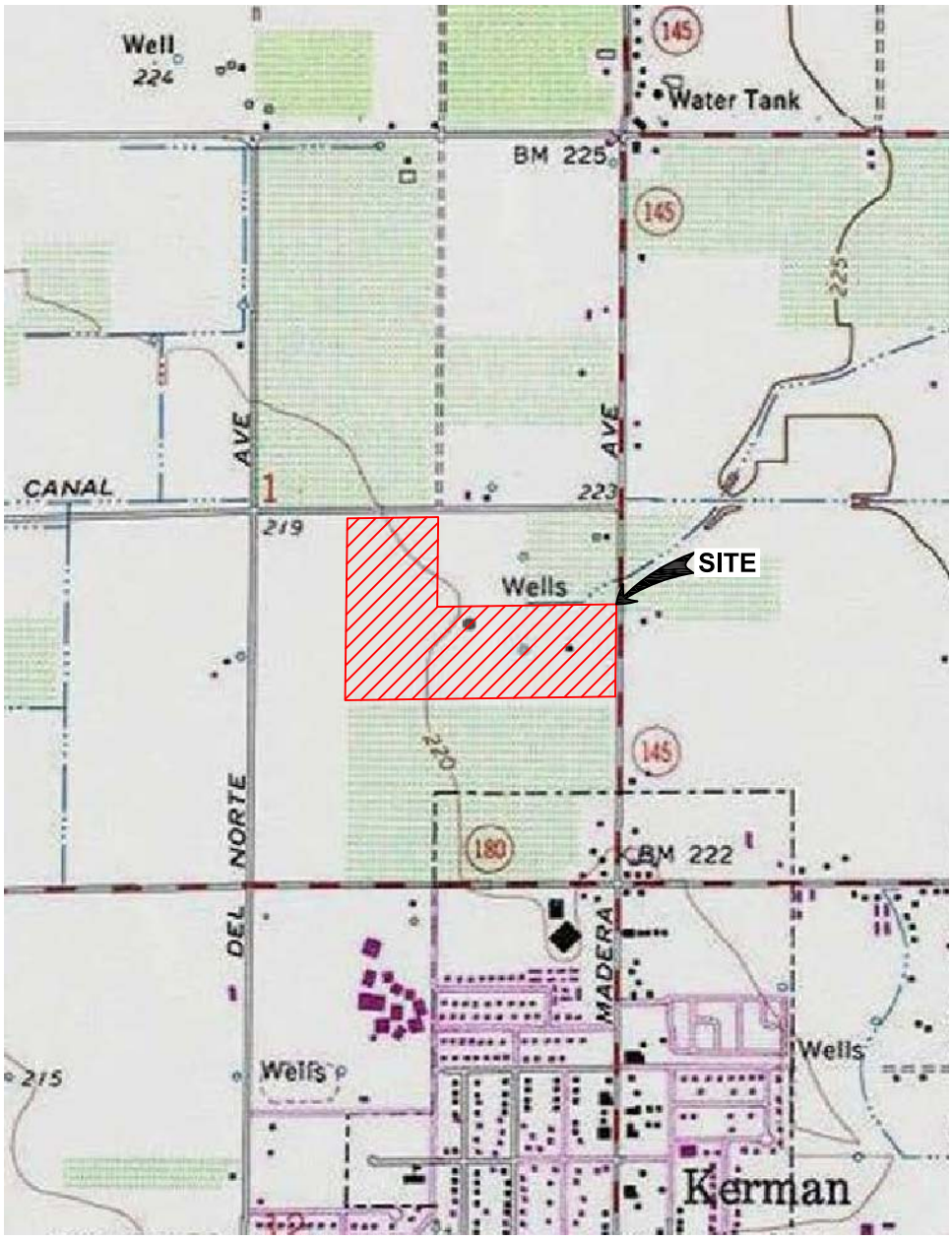
10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

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

NORTH

TECHNICON ENGINEERING SERVICES, INC.	PROJECT: 240050 SOURCE: USGS TOPOGRAPHIC MAPS	VICINITY MAP ORCHARDS AT GILL ESTATES HIGHWAY 145 & NIELSEN AVENUE KERMAN, CALIFORNIA	FIGURE 1 NTS



NORTH

SCALE: 1"=300'

0' 100' 200' 300'

TECHNICON
ENGINEERING SERVICES, INC.

PROJECT: 240050	DATE: 2/27/24	SITE MAP ORCHARDS AT GILL ESTATES HIGHWAY 145 & NIELSEN AVENUE KERMAN, CALIFORNIA	FIGURE 2
SOURCE: GOOGLE EARTH	APPROVED BY: LC		

APPENDIX A

SITE PHOTOGRAPHS

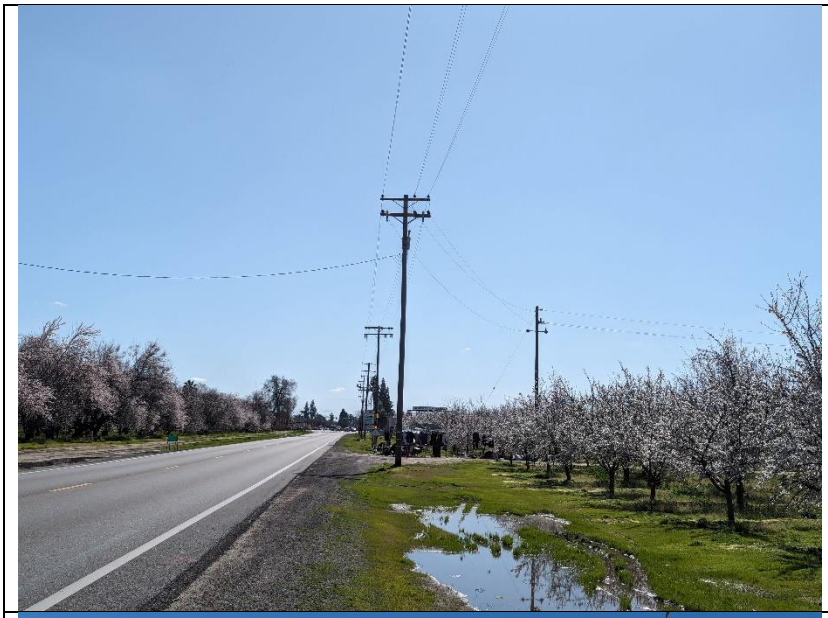
	**Photo 1** ☜ **Photo of the residence located on the northwest corner of the Site.**
	**Photo 2** ☜ **Photo of the residence located on the northwest corner of the Site.**
	**Photo 3** ☜ **Photo of solar panels located behind the residence located on the northwest corner of the Site.**

	**Photo 4** ☜ **Photo of ASTs located behind the residence located on the northwest corner of the Site.**
	**Photo 5** ☜ **Photo of water ASTs located behond 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

TECHNICON
ENGINEERING SERVICES, INC.
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.

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(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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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

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...	CALEPA SITES - CA, ENVIROSTOR - CA, NFA - C...	Lower	SSW / 0.140 mi., 737 ft.
5	KERMAN ELEMENTARY SCHOOL MAST...	NORTHWEST CORNER OF WHITE...	CALEPA SITES - CA	Higher	ESE / 0.145 mi., 768 ft.
6	Kerman Unified District Office	15288 CALIFORNIA 180	CALEPA 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...	CALEPA SITES - CA, CUPA_FRESNO COUNTY - ...	Lower	SSE / 0.250 mi., 1320 ft.
A10	ARCO (BEACON) #618	15000 WHITES BRIDGE W	CALEPA 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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 SanLuis Obispo) counties **1 SITE FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
A10	*ARCO (BEACON) #618*	*15000 WHITES BRIDGE W*	*SE / 0.251 mi., 1325 ft.*	*75*
	- ID: T0601900027	Status: Completed - Case Closed	Date: 2001-07-12	

FEDERAL RCRA GENERATORS LIST

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators **3 SITES FOUND WITHIN .25 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
3	*KRISTEN HOLLAND*	*204 N DEL NORTE AVE*	*SW / 0.113 mi., 597 ft.*	*30*
	- ID: CAC003178909	Status: No Violation/Inspections	Date: N/A	

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.)*

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 | KERMAN 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 CERCLIS

ENVIROSTOR - CA: Department of Toxic Substances Controls **1 SITE FOUND WITHIN 1 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 LIST

HWG - CA: Hazardous waste generator listing **5 SITES FOUND WITHIN .25 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
2	*PAT APIARIES | BLAIR APIARIES | JAY RAY BLAIR*	*15175 W NIELSEN | 15175 WEST NIELSEN*	*NNE / 0.075 mi., 396 ft.*	*29*

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 | KERMAN 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 SITES

SCH - CA: Listing of possible hazardous material contamination sites on existing school properties **1 SITE FOUND WITHIN .25 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 SITES

SWRCY - CA: Listing of facilities which perform recycled material processing activities **4 SITES FOUND WITHIN .5 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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 RECORDS

ALT FUELING: Alternative Fueling Stations by fuel type. **1 SITE FOUND WITHIN .25 MILE**

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
5	KERMAN ELEMENTARY SCHOOL MASTER PLAN	NORTHWEST CORNER OF WHITESBRIDGE ROAD AND MADERA AVENUE	ESE / 0.145 mi., 768 ft.	40

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
2	PAT APIARIES | BLAIR APIARIES | JAY RAY BLAIR	15175 W NIELSEN | 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
2	PAT APIARIES | BLAIR APIARIES | JAY RAY BLAIR	15175 W NIELSEN | 15175 WEST NIELSEN	NNE / 0.075 mi., 396 ft.	29

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
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.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
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 T195 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	T155 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 Facilites
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.)*

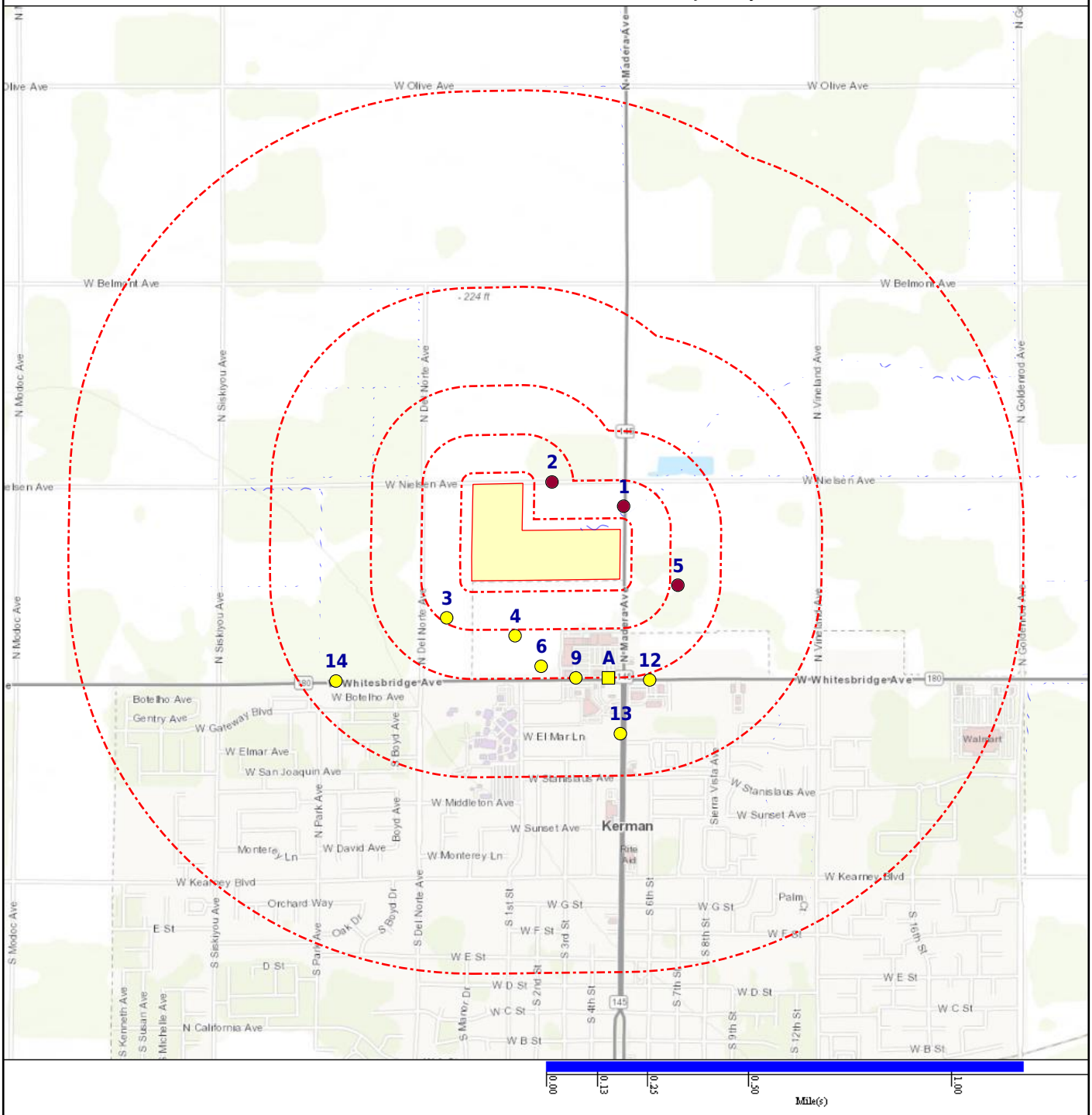
HAZMAT_SAN BERNARDINO COUNTY - CA	San Bernardino County Hazardous Material Permits
HAZMAT_SAN DIEGO COUNTY - CA	Hazardous Materials Management Division Database
HAZMAT_SANTA CLARA COUNTY - CA	Santa Clara County Hazardous Material Facilities
HAZWASTE_ORANGE COUNTY - CA	Orange County hazardous waste facilities
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 contaminted 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

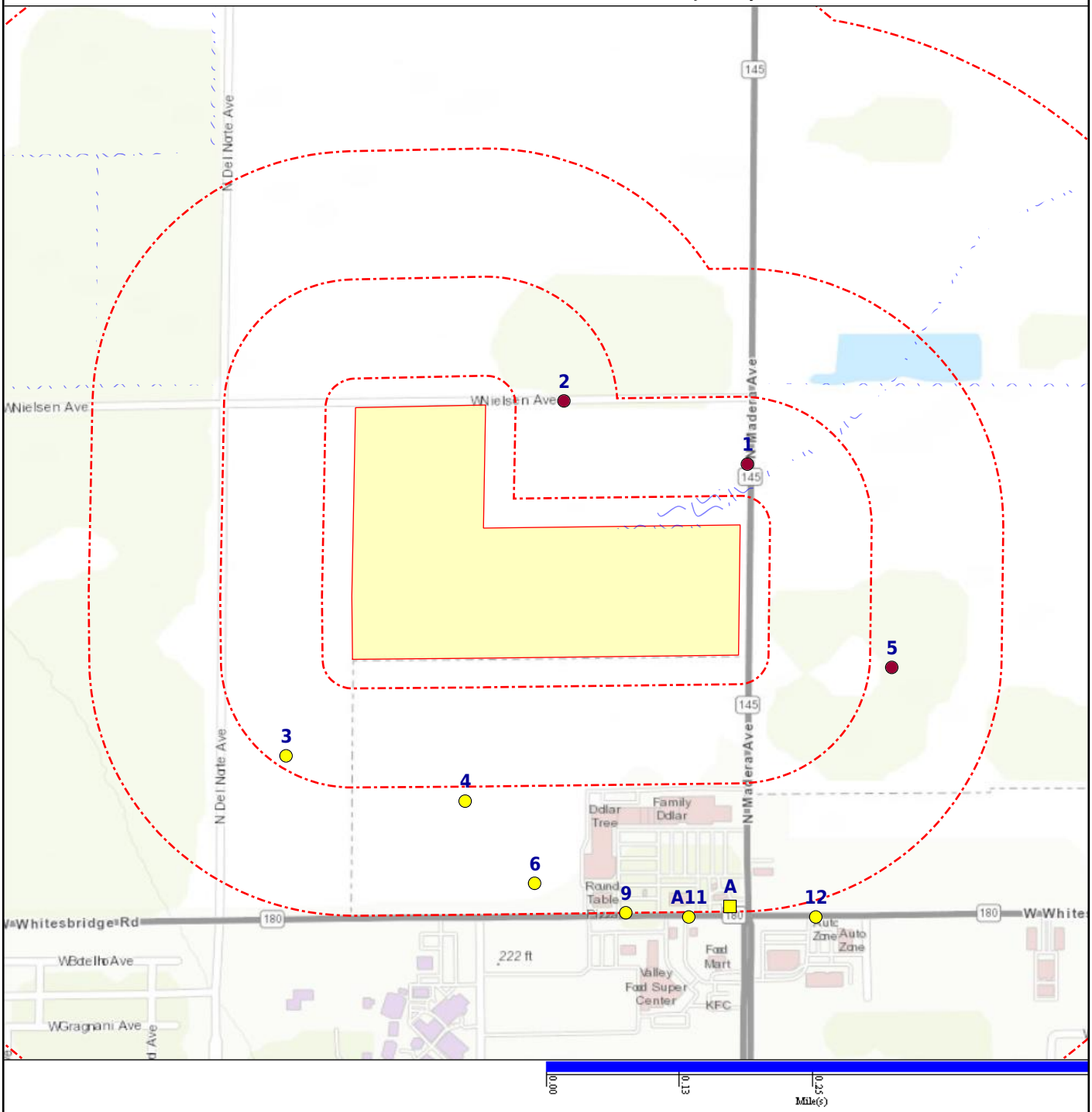
PREPARED FOR: Technicon Engineering Services
ORDER #: 94363
REPORT DATE: January 23, 2024



- 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)

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- Indian Reservation (No Data)
- National Priority List (No Data)
- NWI
- Seismic (No Data)

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
VCP - CA		0.500	0	0	0	--	--	0
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES *(cont.)*								
TOXIC SITE_SACRAMENTO COUNTY - CA		1.000	0	0	0	0	--	0
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
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

Map Id: 1
Direction: ENE
Distance: 0.060 mi., 320 ft.
Elevation: 226 ft.
Relative: Higher

Site Name : ELANORA VALLANDINGHAM
447 NO. MADERA AVE
KERMAN, 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, KERMAN, 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
KERMAN, 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, KERMAN, 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, KERMAN, 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
KERMAN, 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
KERMAN, 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
Chesapeak 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
Chesapeak 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 : 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.)***

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

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
Chesapeak 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 : Click here for hyperlink provided by the agency.
Last Date in Agency List : 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 : ARCO STORE #3618
Facility Address : 15000 W WHITESBRIDGE AVE, KERMAN, CA 93630
County : FRESNO

Site Details
Generator EPA ID : CAL000383978
Active : Inactive
Category : STATE
Facility Types : N/R
Type : PERMANENT
Contact Name : N/R
Contact Phone : N/R
Facility Mailing Address : 19500 BULVERDE ROAD, SAN ANTIONO, TX 782590000
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 :
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 ANTIONO, 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 ANTIONO, 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 Envirosite 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
KERMAN, 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 | 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]

Envirosite ID: 392570
EPA ID: CAL000389724

CALEPA SITES - CA

Facility Name :	O'REILLY AUTO PARTS #3921
Facility Address :	15196 W WHITESBRIDGE AVE, KERMAN, 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
Chesapeak 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.

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 :	CSK AUTO DBA O'REILLY AUTO PARTS #3921
Facility Address :	15196 W WHITESBRIDGE AVE, KERMAN, CA 93630
County :	FRESNO

Site Details

Generator EPA ID :	CAL000389724
Active :	Inactive
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

Facility Name :	KERMAN SHOPPING PLAZA LLC
Facility Address :	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 MANAGMENT 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. (Phoshoric 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
KERMAN, 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, KERMAN, 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
KERMAN, 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, KERMAN, 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, KERMAN, 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
Chesapeak 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 Envirosite 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 Envirosite 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-IAAR0OUS 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
Chesapeak 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
Chesapeak 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

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

Database(s) : [PFAS INDUSTRY]

Envirosite ID: 52675331
EPA ID: N/R

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

Database(s) : [PFAS INDUSTRY] ***(cont.)***

Envirosite ID: 52675331
EPA ID: N/R

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

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
9012916	ANDERSON COALINGA	NW 1/4,SEC 8,T20S,R15E,MD...			HIST LDS - CA
9005626	COALINGA	SECTION 14, T20S, R14E, M...			LDS - CA
8998964	COALINGA, CMS	SECTION 31, T19S, R15E, M...			HIST LDS - CA
8999002	COALINGA, CMS-AZTEC	SEC 31, T19S, R15E, MDB&M			HIST LDS - CA
8999038	COALINGA, PENN-ZIER	SEC 1, T20S, R14E, MDB&M			HIST LDS - CA
8999095	COALINGA, SEC 2	SECTION 2, T19S, R15E, MD...			CIWQS - CA, HIST LDS ...
8999112	COALINGA, SEC 26	SEC 26, T19S, RISE, MDB&M			HIST LDS - CA
8998926	Coalinga, Section 35A | C...	Sec 35, T19S, R15E, Mdb&M			HIST LDS - CA, RFR - CA
9007915	JACALITOS	SEC 27, T21S, R15E, MDB&M			CIWQS - CA, LDS - CA
6912870	KERMAN CITY DUMPSITE #1	AMERICAN AVENUE	KERMAN	93630	ENVIROSTOR - CA, HIS...
32491948	KERMAN CITY DUMPSITE #2	NEAR LASSEN & JENSEN	KERMAN	93630	ENVIROSTOR - CA, HIS...
7381938	KERMAN R O P AUTO TECH	CLINTON MADERA AVE	KERMAN	93630	HAZNET - CA, HWG - CA
6942048	MT. CAMPBELL RIFLE RANGE ...	N/R			HIST MCS - CA, MCS - CA
42447940	PG&E GTP T-1257 Helm	S. Madera Ave	HELM	93630	MANIFEST EPA
9010964	PLEASANT VALLEY, GATCHELL	SECTION 20, T20S, R16E, M...			CIWQS - CA, LDS - CA
9011290	RAISIN CITY FULLER	SW1/4,NE1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011313	RAISIN CITY HAMILTON (2)	N1/2SE1/4,NW1/4,SEC13,T15...			CIWQS - CA, LDS - CA
8999845	Raisin City Oil Field, Su...	SE 1/4, NE 1/4, Section 1...	Kerman	93630	HIST LDS - CA
9011345	RAISIN CITY VARIOUS LEASE...	T15S, R17E & 18E, MDB&M			CIWQS - CA, LDS - CA
9011371	RAISIN CITY, EAGLE SUNSET	SW1/4,SEC11, T15S, R17E, ...			CIWQS - CA, LDS - CA
9011389	RAISIN CITY, EAGLE-SUNSET...	SW1/4NW1/4, SEC19, T15S, ...			CIWQS - CA, LDS - CA
9011416	RAISIN CITY, EAGLE-SUNSET...	SEC 19, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
6921790	Raisin City, Hamilton	Sec 13, T15S, R18, Mdb&M			CIWQS - CA, CIWQS 2 ...
9975546	RAISIN CITY, HAMILTON	Temblor Petro - SEC 13, T...	Kerman		OIL & GAS CLEANUP - CA
9011440	RAISIN CITY, HAMILTON	SE1/2,NW1/4,SEC13,T15S,R1...			CIWQS - CA, LDS - CA
9011463	RAISIN CITY, NCC	SE1/4, SE1/4, SEC10, T15S...			CIWQS - CA, LDS - CA
9011496	RAISIN CITY, PROPERTIES, ...	SEC 18, T15S, R18E, MDB&M			CIWQS - CA, LDS - CA
9011516	RAISIN CITY, RAISIN CITY ...	SE1/4,NW1/4,SEC19,T15S,R1...			CIWQS - CA, LDS - CA
9011691	RAISIN CITY, SURFLUH (08)	SE1/4,NE1/4,SEC14,T15S,R1...			LDS - CA
48013491	Waste Recovery West, Inc.	7220 NW O Neil Hwy	Kerman	93630	HAULERS - CA

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: 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_TSDF: 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 Sties

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 andTrinity 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 SanBenito 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 SanLuis 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 boar
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 includer 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 Qualilty 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 JusticeOffice 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

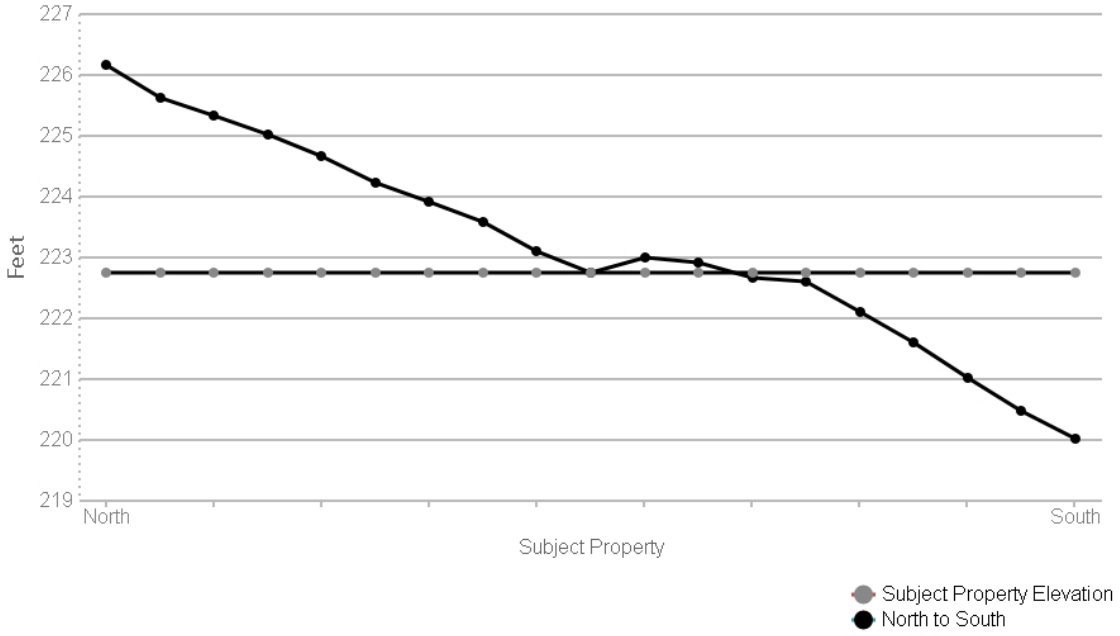
NATIONAL WETLAND INVENTORY:

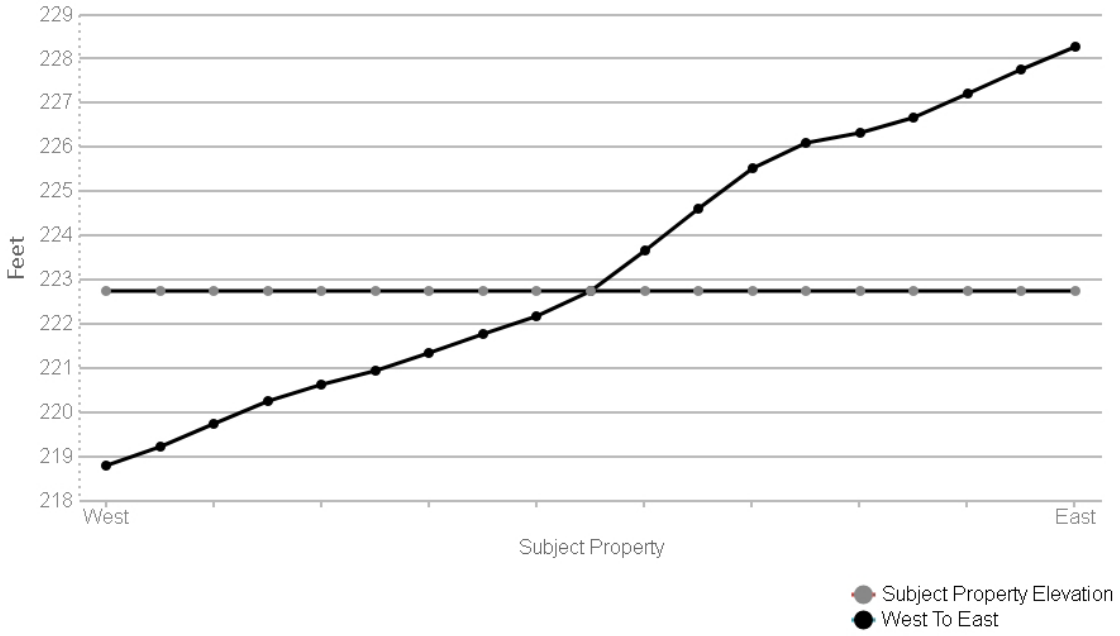
	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
Kerman	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	Cenozoic	Category: 4 Q Quaternary
System:	Quaternary	
Series:	Quaternary	
Code:	Q	

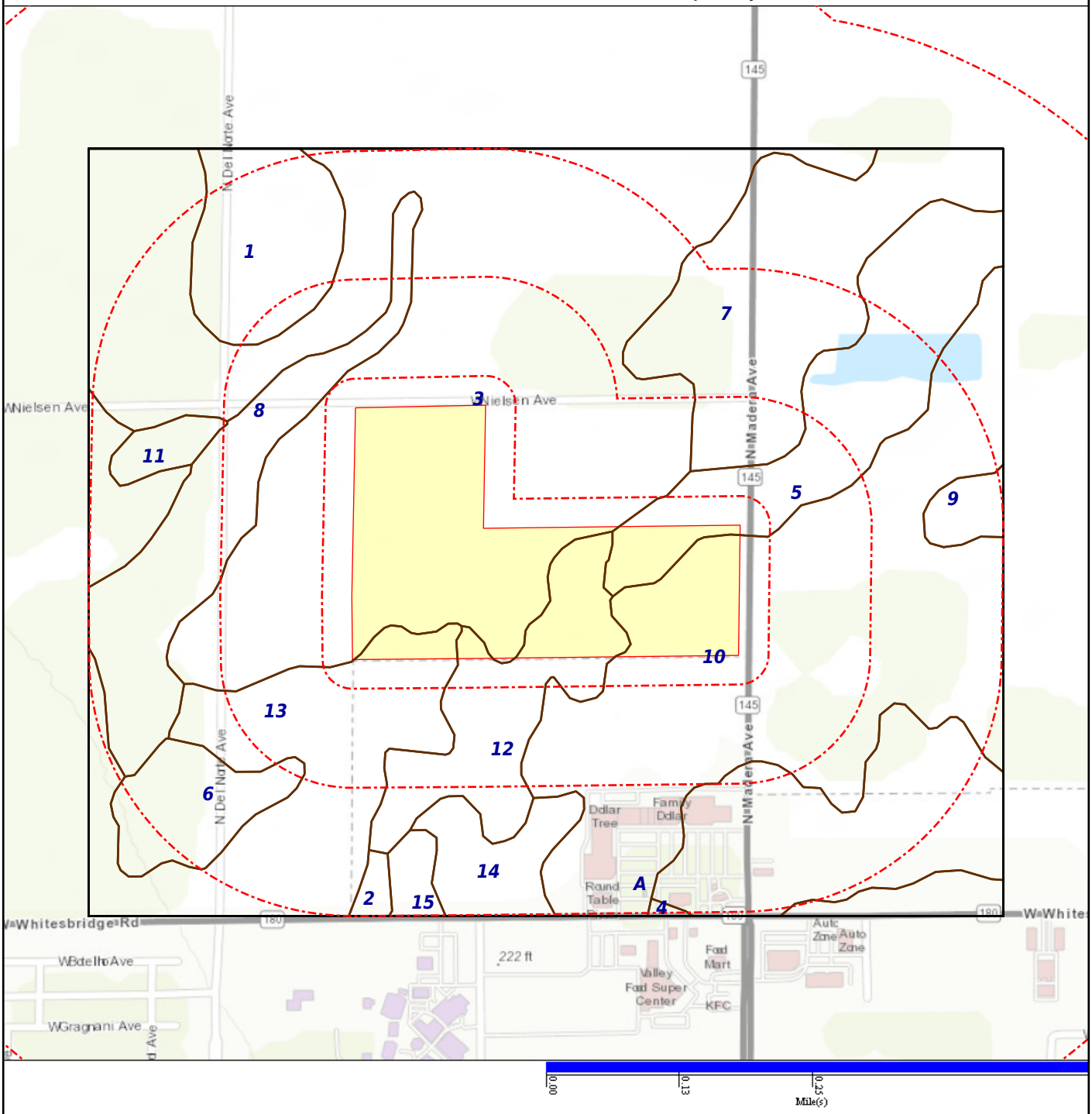
SURROUNDING ELEVATION PROFILES:





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



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:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
OIL & GAS WELLS - CA	1.000
PWS	1.000
WELLS - GAMA - CA	0.000

DISTANCE TO NEAREST:	DISTANCE:
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:

MAP ID:	WELL ID:	LOCATION FROM SP:
1	364445120035801	1/4 - 1/2 Mile NNW
2	364300120030001 | USGS-364300120030001	1/2 - 1 Mile ESE
3	JB AUTO REPAIR | CA1000523 | BEAUTIFUL BODY	1/2 - 1 Mile NNE
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

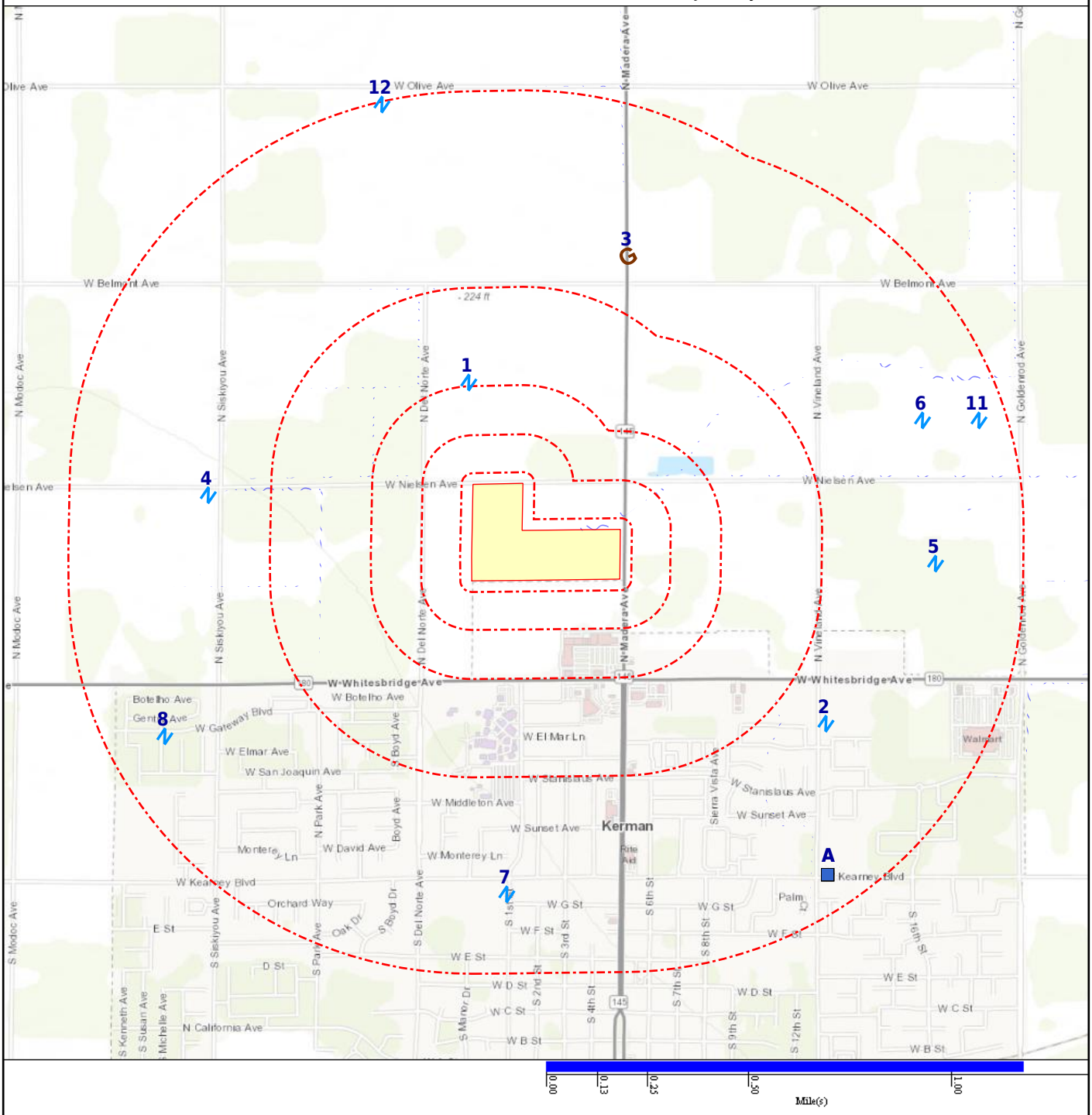
Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
2	364300120030001 | USGS-364300120030001	1/2 - 1 Mile ESE

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
Geological Site
Basins (No Data)
NWI
DAMS (No Data)
NWIS
Geologic Cluster with Water Well
Oil & Gas Wells (No Data)

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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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

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]

Envirosite ID: 9225628
EPA ID: N/R

NWIS

Site Identification Number :	364300120030001
Site Type :	Well
Station Name :	014S018E07B001M
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	KERMAN
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	222
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	1999-06-22
Date Site Established or Inventoried:	2005-10-24
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-Other GW Files :	YY
National Aquifer :	Central Valley aquifer system
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	800
Hole Depth :	810
Source of Depth Data :	D
Project Number :	9677BHM45
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 :	2005-10-24
Water-Quality Data End Date :	2005-10-24
Water-Quality Data Count :	3
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.733194
Longitude :	-120.051167
Last Date in Agency List :	2023-11-23

WELLS - GAMA - CA

Well Details

Well ID :	USGS-364300120030001

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 Envirosite 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
KERMAN, CA 93630

Database(s) : [PWS, PWS ENF]

Envirosite ID: 609920
EPA ID: N/R

PWS

Facility Address :	1048 N MADERA AVE, KERMAN, 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 RTCR Monitoring :	N/R
Last Date in Agency List :	2023-09-13

PWS ENF

Facility Address :	1048 N MADERA AVE, KERMAN, 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
KERMAN, 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 :	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 :	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 :	KERMAN, 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
KERMAN, 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 :	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 :	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 :	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: 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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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 :	SENES06 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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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

Map Id: A9
Direction: SE
Distance: 0.903 mi., 4771 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 364340120030401 | 364340120030402
36.727778, -120.051111
CA

Database(s) : [NWIS]

Envirosite ID: 9198204
EPA ID: N/R

NWIS

Site Identification Number :	364340120030401
Site Type :	Well
Station Name :	014S018E07Z001M MENDENHALL 1916
Agency :	U.S. Geological Survey
District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Location not accurate.
Data-Other GW Files :	N/R
National Aquifer :	N/R
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 :	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 :	36.727778
Longitude :	-120.051111
Last Date in Agency List :	2023-11-23

Site Identification Number :	364340120030402
Site Type :	Well
Station Name :	014S018E07Z002M MENDENHALL 1916
Agency :	U.S. Geological Survey

Map Id: A9
Direction: SE
Distance: 0.903 mi., 4771 ft.
Elevation: 224 ft.
Relative: Higher

Site Name : 364340120030401 | 364340120030402
36.727778, -120.051111
CA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 9198204
EPA ID: N/R

NWIS ***(cont.)***

District :	California
State :	CA
County :	Fresno County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Upper Dry
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Location not accurate.
Data-Other GW Files :	N/R
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	640
Hole Depth :	N/R
Source of Depth Data :	N/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 :	36.727778
Longitude :	-120.051111
Last Date in Agency List :	2023-11-23

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]

Envirosite ID: 841544
EPA ID: N/R

PWS

Facility Address :	14452 W. KEARNEY BLVD., KERMAN, 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., KERMAN, 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 Envirosite 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.
KERMAN, 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., 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 :	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., 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 :	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., 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 :	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 :	SENES06 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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNO
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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 :	YYNNNYNN
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:

Zip:	Total Sites:	Cnt >=4 pCi/L:	Pct >= 4 pCi/L:	Max Result (pCi/L):
93630	38	16	42.105	6

FEDERAL AREA RADON INFORMATION FOR: 93630

NUMBER OF SAMPLE SITES: 1

Area:	Average Activity:	% <4 pCi/L:	% 4-20 pCi/L:	% >20 pCi/L:
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 enforcememnt 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 measurments

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 FEMAs 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

SEC 1-14/17 KERMAN CA 93630

Project Address	Cross Street	Project Description
SEC 1-14/17 KERMAN CA 93630	NIELSEN/MADERA	ELECTRICAL PANEL CHANGE OUT 125AMP FO R(E) AG PUMP

Permit #: **17-109517-FC** Issued on: **December 18, 2017** APN: **02012006**

Owner:	Applicant:	Contractor:
GILL JAGROOP S TRUSTEE	KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*	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		Rear
		Min	Max	Interior	Street	Min
AL20		35		20		20

PROJECT INFORMATION

Big Dry Creek Basin: **No**
FMFCD Rural Streams: **No**
Roof Classification: **Class C or better**
Submittal Method: **Walk-in**

Contractor License Class: **B**
MWELO Occupancy Pending: **NO**
Soil Bearing Capacity(psf): **1000**

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 Contractor KUTUMIAN 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 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.

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	
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				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing & Gates				
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

ELECTRICAL				CORRECTIONS	
TYPE OF INSPECTION		APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior					
Conduit: PVC/Galv. Exterior					
Rough	Wiring 2/0	Ron Zahuranec	12/		
Elec.	Main Panel 125 Amps	Ron Zahuranec	12/20/17		
Temporary Meter					
Temporary Power Pole					
Ufer Location/Driven Ground X 1		Ron Zahuranec	12/20/17		
1- #2					
Water Pipe Bond Location					
Wiring To Well		Ron Zahuranec	12/20/17		
Pool Equipment Bonding					
FINAL INSPECTION		Ron Zahuranec	12/20/17		

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)	RA

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

15319 W NIELSEN AVE KERMAN CA 93630

Project Address	Cross Street	Project Description
15319 W NIELSEN AVE KERMAN CA 93630	DEL NORTE	FOUNDATION ONLY FOR PERMIT# 17-107153 (SFR ACCESSORY BUILDING)

Permit #: 18-104796-FC Issued on: June 13, 2018 APN: 02012003S

Owner:	Applicant:	Contractor:
GILL JAGROOP S TRUSTEE	KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*	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
		Min	Max	Interior	Street	Min
AL20		35		20		20

PROJECT INFORMATION

Big Dry Creek Basin: **No**
FMFCD Rural Streams: **No**
Occupancy Pending RTMF: **No**
Soil Bearing Capacity(psf): **1000**
WMP Occupancy Pending: **NO**
Contractor License Class: **B**
MWELO Occupancy Pending: **NO**
Roof Classification: **Class C or better**
Submittal Method: **Walk-in**

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 Contractor KUTUMIAN 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 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 June 13 18

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.

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: 1539 W. NIELSEN

AMANDA NUMBER:
PERMIT NUMBER: 18-104796

BUILDING			CORRECTIONS		REMARKS
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	FOLLOW CORRECTION NOTICE ON
Flood Prone-Elevation			Ron Tatum	6/22/18	ALL LCN TO COMPLETE FRAME
Foundation: Forms & Setback	Ron Tatum	6/22/18	Cancelled by		TCD 7-17-18 RT 10/12/18
Foundation / Patio Piers	Ron Tatum		Ron Tatum	7/18/18	
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					
Shower Wall Over Tub					
Shower Pan & Walls					
Bond Beam & Steel					
Pool Steel, Bonding & Setback					
Pre-Deck					
Pool Fencing & Gates					
FINAL INSPECTION					
CERTIFICATE OF OCCUPANCY					

CASH DEPOSIT	AMOUNT
Temporary Power Occupancy	
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

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					

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		

PLUMBING			CORRECTIONS		
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Ground Plumbing: Soil WASTE	AOJ	6/14/18	AM	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					

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)		

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					

CONSTRUCTION PERMIT

Will Call

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	Cross Street	Project Description:
15319 W NIELSEN AVE KERMAN CA 93630	DEL NORTE AVENUE	GAZEBO

Permit #: 06-106817-FC Issued on October 20, 2006 APN: 02012003S

Owner	Applicant	Contractor
GILL JAGROOP S & RUPINDER K	TAYLOR BRETT	NONE
Address: P O BOX 680 KERMAN CA 93630 \	Address: 932 ACACIA CLOVIS CA 93611 \	Address: NONE
Phone:	Phone: (559) 355-1721 St. Lic.:	Phone: St. Lic.:

APPROVALS	Approved By	Date
Application Requirements	Books, Bill	October 20, 2006
Plan Review	Books, Bill	October 20, 2006

Zoning District	Required Setbacks:	Front		Side		Rear
		Min	Max	Interior	Street	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._____ B&PC for this reason.

Owner Mukh Jatinder 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 Mukh Jatinder

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 Mukh Jatinder

Date 10-20-06

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 095073

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE CORRECTION
Flood Prone-Elevation				
Foundation: Forms & Setback				12/05/06
Foundation / Patio Piers Pol Cal.		12-6-06		
Floor Girders & Joists				
Shear Panel Nailing				
Pre-Roof				
Roof Sheathing		1/16/07		
Roof Batten/Felt		1/18/07		
Roof Covering		4-2-07		
Exterior Lath/Siding		4-27-07	4-27-07 ef	
Fireplace Damper				
Fireplace: Roof				
Frame		4-27-07		
Insulation				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing and Gates				
FINAL INSPECTION		1-5-09		
CERTIFICATE OF OCCUPANCY				

OCCUPANCY REQUIREMENTS

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		

ELECTRICAL

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE CORRECTIONS
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior		1-5-09		
Rough Wiring		4-27-07		
Elec. Main Panel 70 Amps		1-5-09		
Temporary Meter				
Temporary Power Pole				
Ufer Location/Driven Ground @ Panel		1-5-09		
Water Pipe Bond Location				
Wiring to Well				
Pool Equipment Bonding				
FINAL INSPECTION		1-5-09		

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		

PLUMBING

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE CORRECTIONS
Ground Plumbing: Soil		4-27-07		
Water Pipe – Under Floor				
Water Pipe – Above Floor		4-27-07		
Vents & Top Out		4-27-07		
Gas Pipe – Interior				
Gas Test – Interior				
Gas Test – Exterior				
Second Floor Tub Test				
Septic System				
House Sewer TIE-IN		4-27-07		
Water Service PVC/Galv.		1-5-09		
Well Seal Pad				
	FEES WAIVED			
FINAL INSPECTION		1-5-09		

REMARKS

Mechanical

TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE CORRECTIONS
Ducts Underfloor				
Ducts Overhead				
Wood Burning Appliance				
Refrigeration Unit/Furnace				
Evaporative Cooler				
Gas Pipe				
Gas Test				
FINAL INSPECTION				

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

15319 NIELSEN AVE KERMAN

#088644

Project Address	Cross Street	Project Description:
15319 NIELSEN AVE KERMAN CA 93630	DEL NORTE AVENUE	SFR & ATTACHED GARAGE

Permit #: 05-101113-FC Issued on June 07, 2006 APN: 02012003S

Owner: GILL JAGROOP S & RUPINDER K	Applicant: BEN JAMES RESIDENTIAL & STRU(	Contractor: NONE
Address: P O BOX 680 KERMAN CA 93630	Address: 4210 DELNO CA \	Address: NONE
Phone:	Phone: (559) 248-9780 St. Lic.:	Phone: St. Lic.:

APPROVALS	Approved By	Date
Application Requirements	Lucchesi, Ron	June 07, 2006
Issuance Review	Lucchesi, Ron	June 07, 2006

Zoning District	Required Setbacks:	Front		Side		Rear
		Min	Max	Interior	Street	Min
AL20		35		20		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 (p:	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)	1	Septic System Installation
4	Gas Appliance	3	Number of Bathrooms (3 max)	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] For owner 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 :

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 [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-mentioned property for inspection purposes.

Applicant Or Agent [signature] For owner

Date [signature]

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

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTION INSPECTOR	DATE
Flood Prone-Elevation				
Foundation: Forms & Setback		9/15/06		9/6/06
~~Foundation: Patio~~ Piers STEEL Columns			9/6/06	
Floor Girders & Joists			LOC BY Contractor	
Shear Panel Nailing Less C/N		10/25/06		11-28-06
Pre-Roof				5-3-07
Roof Sheathing		11/29/06		5-7-07
Roof Batten/Felt		4/2/07		12/3/07
Roof Covering Less Fire		5-3-07		
Exterior Lath/Siding		5-7-07		
Fireplace Damper				
Fireplace: Roof				
Frame * Per C.W.		5.7.07		
Insulation				
Shower Wall Over Tub		10-18-07		
Shower Pan & Walls		10-18-07		
Bond Beam & Steel				
STEEL Columns Day Pack		10/16/06		
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing and Gates				
Day Pack STEEL Columns	STEEL PLANS	10/3/06		
FINAL INSPECTION		1.5.09		
CERTIFICATE OF OCCUPANCY		1.5.09		

ELECTRICAL

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	DATE
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior		7-25-07	NB CARD	12707
Rough Wiring L.C.D.		12707		
Elec. Main Panel 400 Amps		12.30.08		
Temporary Meter		6-18-07		
Temporary Power Pole				
Ufer Location/Driven Ground	N. Eggers		9/6/06	
Water Pipe Bond Location				
Wiring to Well		12/30/08		
Pool Equipment Bonding				
FINAL INSPECTION		12/30/08		

PLUMBING

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	DATE
Ground Plumbing: Soil		8-21-06		8/18/06
Water Pipe – Under Floor				12/30/08
Water Pipe – Above Floor		12708		12/30/08
Vents & Top Out		12708		
Gas Pipe – Interior		12707		
Gas Test – Interior		12/30/08		
Gas Test – Exterior		8-8-08		
Second Floor Tub Test				
Septic System		10-7-08		
House Sewer		10-7-08		
Water Service PVC/Galv.		12/30/08		
Well Seal Pad				
FINAL INSPECTION		1.5.09		

Mechanical

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	DATE
Ducts Underfloor				5/2/07
Ducts Overhead Less C.W.		5.7.07		5.7.07
Wood Burning Appliance				12/30/08
Refrigeration Unit/Furnace		12/30/08		
Evaporative Cooler				
Gas Pipe				
Gas Test				
FINAL INSPECTION		1.5.09		

OCCUPANCY REQUIREMENTS

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

CASH DEPOSIT Temporary Power Occupancy	AMOUNT
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

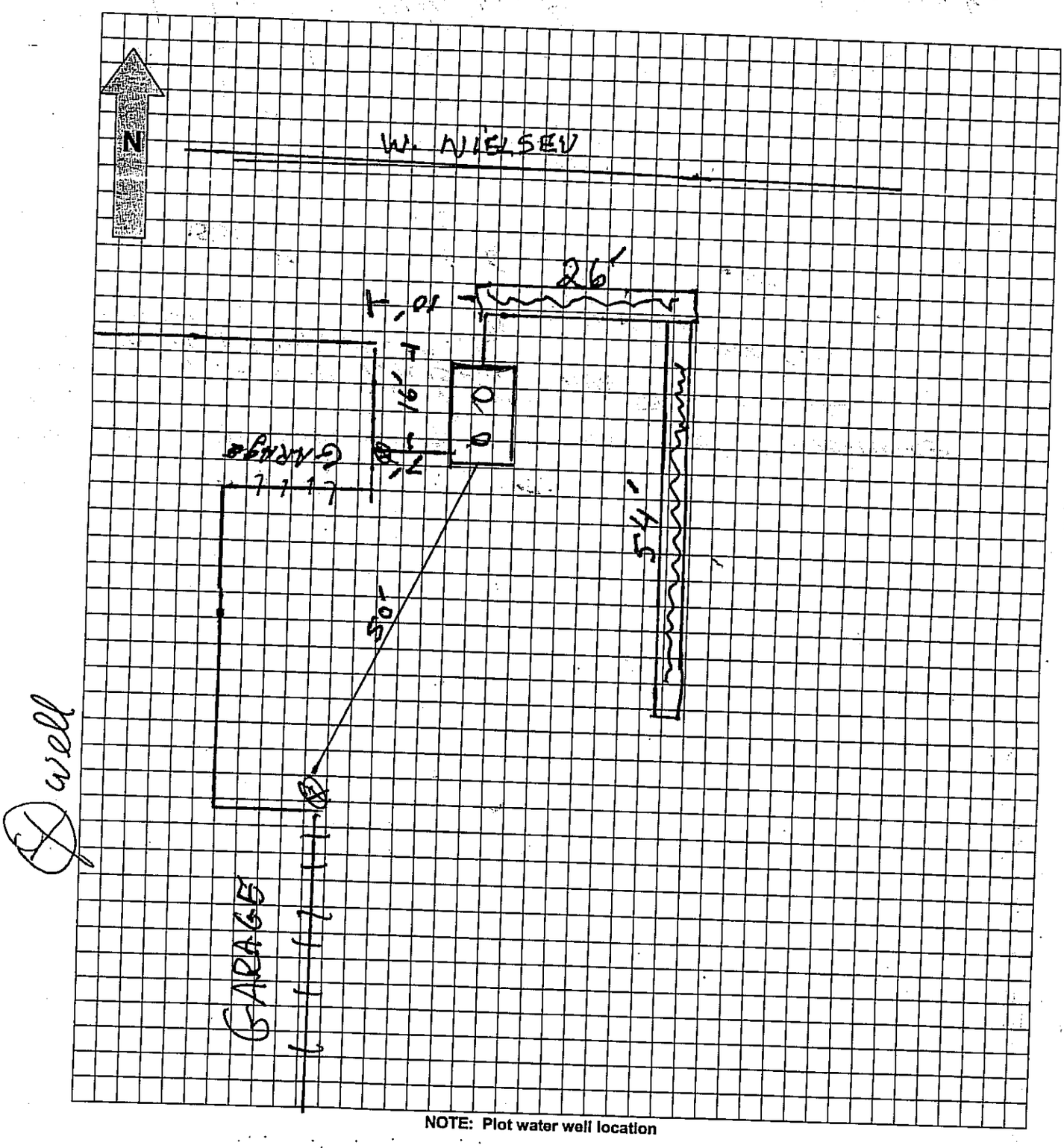
HAZARDOUS MATERIAL STORAGE FOR NON-RESIDENTIAL CONSTRUCTION

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 _____

Form 35A Rev 5/05

Job Address: 15319 W. NIELSEN



NOTE: Plot water well location

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS

CONTRACTOR: CAL SEWAGE

TANK TYPE:
(X) CONCRETE
( ) METAL
( ) OTHER
_____

TANK SIZE:
DIA. 1ST COMP _____
2ND COMP _____
3RD COMP _____
LIQUID DEPTH _____

MKM
TOTAL LIQUID:
CAPACITY 1500 GAL.

SEEPAGE PITS:
NUMBER _____
DIAMETER _____ FT.
DEPTH _____ FT.
DIST. TO WELL _____ FT.

SQUARE FEET _____

LEACHING FIELD
TOTAL LENGHTH 80 FT.
TOTAL WIDTH 24 IN.
NO. OF LINES 2
ROCK UNDER PIPE 36 IN.
DIST. TO WELL 300+ FT.

SQUARE FEET 480

MANUFACTURER: _____

G:\4360Dept\s&Plm\FORMS\F036Septic Repair Plot Plan.doc

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	Cross Street	Project Description:
15319 W NIELSEN AVE KERMAN CA 93630	**DEL NORTE AVENUE**	**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**	Applicant: **BEN JAMES RESIDENTIAL & STRUC**	Contractor: **NONE**
Address: **P O BOX 680 KERMAN CA 93630 **	Address: **4210 DELNO CA **	Address: **NONE**
Phone: **(559) 906-6065**	Phone: **(559) 248-9780** St. Lic.:	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		Side		Rear
		Min	Max	Interior	Street	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 those 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 1539 W. NIELSEN PERMIT NUMBER 101192

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTION INSPECTOR	CORRECTION DATE
Flood Prone-Elevation				
Foundation: Forms & Setback	[signature]	3/29/07		
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				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing and Gates				
FINAL INSPECTION				
CERTIFICATE OF OCCUPANCY	[signature] 12/26/07			

ELECTRICAL

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	CORRECTIONS 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

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	CORRECTIONS 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

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	CORRECTIONS DATE
Ducts Underfloor				
Ducts Overhead				
Wood Burning Appliance				
Refrigeration Unit/Furnace				
Evaporative Cooler				
Gas Pipe				
Gas Test				
FINAL INSPECTION				

OCCUPANCY REQUIREMENTS

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

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

Form 35A Rev 5/05

020-120-03S

15319 NIELSEN AVE.

4/3/06
SINGLE FAMILY RESIDENCE W/ATT. GAR.
PC-085655
SUR-085655 – Scanned 1/8/09

6/7/06
SINGLE FAMILY RESIDENCE W/ATT. GAR.
B-088644
P-088644
E-088644 – Scanned 1/8/09
M-088644

10/20/06
GAZEBO
PC-095073
B-095073 – Scanned 1/8/09
E-095073

3/28/07
ADDENDUM
B-101192 – Scanned 1/8/09

11/15/07
IN-GROUND SWIMMING POOL W/SPA & NATURAL GAS FIRE PIT
P-111067
SWIM-111067 – Scanned 1/27/09

7/6/17 SOLAR GROUND MOUNT FOR SFR.
B-96242 scanned 8/4/17 SH 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

15319 W NIELSEN AVE KERMAN CA 93630

Project Address	Cross Street	Project Description
15319 W NIELSEN AVE KERMAN CA 93630	**DEL NORTE**	**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:	Applicant:	Contractor:
GILL JAGROOP S TRUSTEE	**KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN***	**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		Rear
		Min	Max	Interior	Street	Min
AL20						

PROJECT INFORMATION

Big Dry Creek Basin: **No**
FMFCD Rural Streams: **No**
Occupancy Pending RTMF: **No**
Soil Bearing Capacity(psf): **1000**
Contractor License Class: **B**
MWELO 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 Contractor KUTUMIAN 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_____ 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 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.

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	
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				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing & Gates				
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 hole	Steff	6/12/18		
FINAL INSPECTION	Steff	6/19/18		

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				

REMARKS

CASH DEPOSIT Temporary Power Occupancy	AMOUNT
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

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)	

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

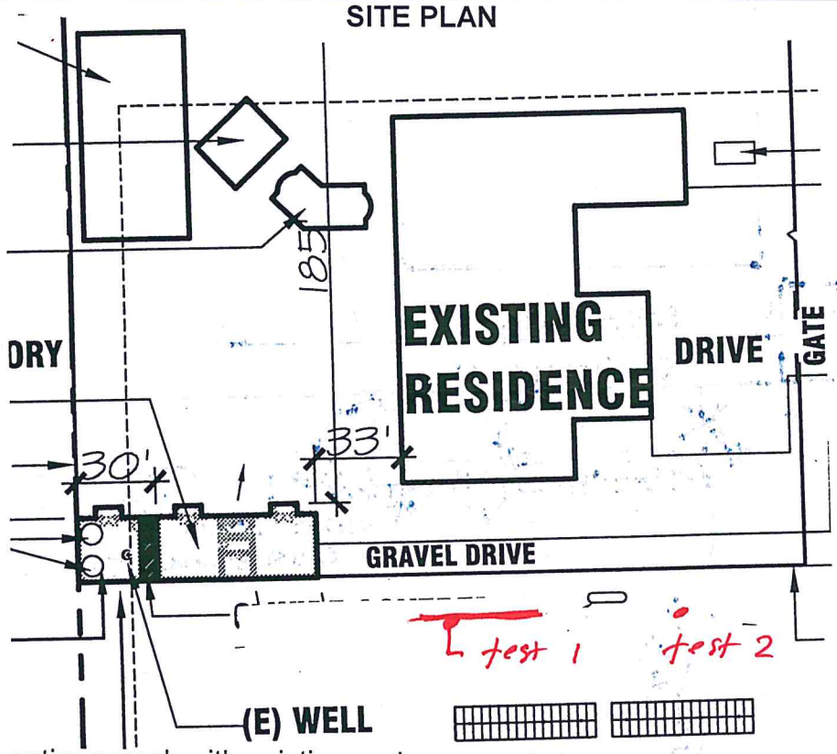
ADDRESS: _____ PLAN CHECK #: _____

VICINITY MAP

Lot # _____
Tract # _____

NOTE: Show major roads (public and private) and directions to get to the parcel.

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 Kuruvilla MAIL ADDRESS: 470 w Bluff Fresno 93711

CITY: Fresno STATE: CA ZIP: 93704 PHONE: 3071797

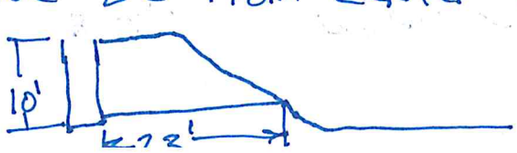
TEST HOLE RESULTS

Leach Factor 25 Sq. Ft./100 gal. ☐ Engineered System Required Number of test hole inspected 1

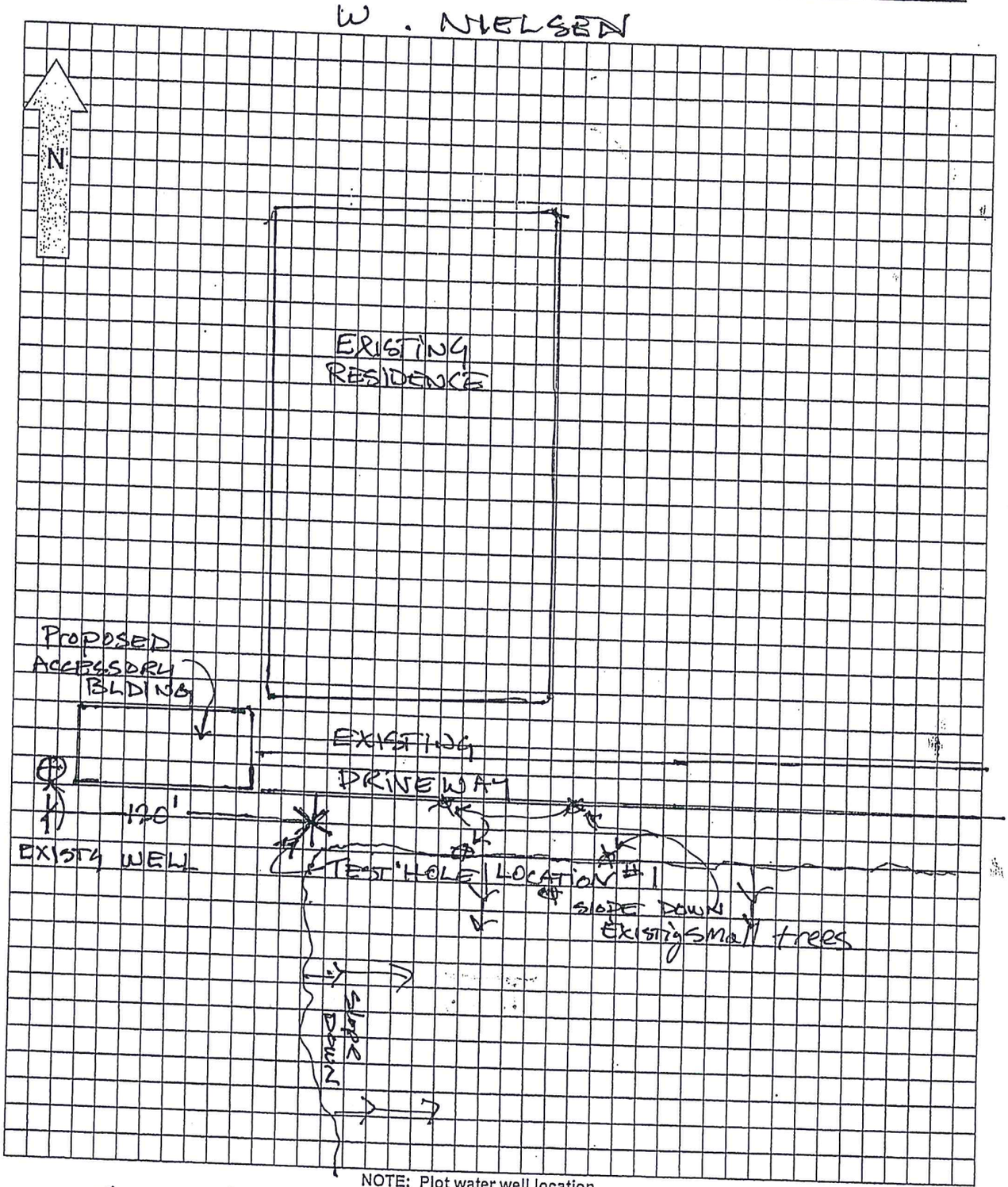
Comments

Armando Uribe 6/13/18
On Site Inspection By: Date:

Soil conditions — fine sand, Test Hole Dug Appox 10' from slope, Leech line run parralel 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: KUTUMIAN CONSTRUCTION Jerry

TANK TYPE:	TANK SIZE:	SEEPAGE PITS:	LEACHING FIELD
( ) CONCRETE	DIA. 1ST COMP ____	NUMBER ____	TOTAL LENGTH ____ FT.
( ) METAL	2ND COMP ____	DIAMETER ____ FT.	TOTAL WIDTH ____ IN.
( ) OTHER	3RD COMP ____	DEPTH ____ FT.	NO. OF LINES ____
____	LIQUID DEPTH ____	DIST. TO WELL ____ FT.	ROCK UNDER PIPE ____ IN.
	TOTAL LIQUID:		DIST. TO WELL ____ FT.
	CAPACITY ____ GAL.	SQUARE FEET ____	SQUARE FEET ____

MANUFACTURER: ____

G:\4360Devs&Pln\FORMS\F036A NEW PLOT PLAN FORM.doc

PLOTTED BY: ARMANDO URIBE DATE: 6/13/18

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 #:17-0735

15319 W NIELSEN AVE KERMAN CA 93630

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:	Applicant:	Contractor:
GILL JAGROOP S TRUSTEE	KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*	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		Rear
		Min	Max	Interior	Street	Min
AL20		35		20		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

FOR OWNER BUILDER SEE FORM F174 ATTACHE

WORKER'S COMPENSATION DECLARATION

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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.

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: 17-10753
PERMIT NUMBER:

BUILDING			CORRECTIONS		REMARKS
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE	
Flood Prone-Elevation				9.26.18	CA BY CONTRACTOR - 11.5.18
Foundation: Forms & Setback	See 18-104796		Ron Fahey	10/12/18	
Foundation / Patio Piers			CKitterman	10.19.18	CA BY CONTRACTOR - 11-29-18
Floor Girders & Joists			TVA	11.6.18	
Shear Panel Nailing RDP ACN		9.26.18	CKitterman	11-27-18	
Pre-Roof			TVA	5-23-19	
Roof Sheathing		9.26.18			
Roof Batten/Felt RDP ACN		9.26.18			
Roof Covering ~~UNDERWAY~~	Ron Fahey	10/12/18			
Exterior Lath/Siding ~~ERH~~ TVA	Ron Fahey 11.8.18	10/12/18			
Fireplace Damper					
Fireplace: Roof					
Frame	Ron Fahey	10/12/18			
Insulation					
Shower Wall Over Tub					
Shower Pan & Walls	Acf	11/29/18			
Bond Beam & Steel					
Pool Steel, Bonding & Setback					
Pre-Deck					
Pool Fencing & Gates					
FINAL INSPECTION PCN					
CERTIFICATE OF OCCUPANCY		9/10/19			

CASH DEPOSIT	AMOUNT
Temporary Power	
Occupancy	
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

ELECTRICAL			CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior		3.21.19	Ron Fahey	10/12/18
Conduit: PVC/Galv. Exterior			TVA	5-23-19
Rough Wiring TVA	11.8.18 Ron Fahey			
Elec. Main Panel 200 Amps	Ron Fahey			
Temporary Meter				
Temporary Power Pole				
* Ufer Location/Driven Ground X2	TVA	11.6.18		
Water Pipe Bond Location				
Wiring To Well				
Pool Equipment Bonding				
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		

PLUMBING			CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ground Plumbing: Soil gas line		3.21.19	Ron Fahey	10/12/18
Water Pipe – Under Floor				
Water Pipe – Above Floor	Ron Fahey	10/12/18		
Vents & Top Out TVA	11.8.18 Ron Fahey			
Gas Pipe – Interior	NA			
Gas Test – Interior	NA			
Gas Test – Exterior		3.21.19		
Second Floor Tub Test				
SB- Septic System	SBC PERMIT #	18-105335		
SB- House Sewer	SBC	7.26.18		
Water Service PVC/Galv.				
Well Seal Pad				
FINAL INSPECTION	TVA	5-23-19		

OTHER DEPARTMENT CONDITIONS	
GRADING	FINAL
G.V. #	
G.P. #	
FIRE DEPARTMENT CS	5/30/19
ENVIRONMENTAL HEALTH	
ROADS	
C.U.P. #	
S.P.R. #	
ALL CONDITIONS MET FOR PROJECT (BUILDING INSPECTOR INITIAL)	RC

MECHANICAL			CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Ducts Underfloor			Ron Fahey	10/12/18
Ducts Overhead ~~ERH~~ TVA	11.8.18 Ron Fahey	10/12/18	TVA	5-23-19
Wood Burning Appliance				
CPDR3R	TVA	5-23-19		
Refrigeration Unit/Furnace SOA Breaks	TVA	5-23-19		
Evaporative Cooler				
Gas Pipe				
Gas Test				
FINAL INSPECTION PCN		9/10/19		

ADDRESS

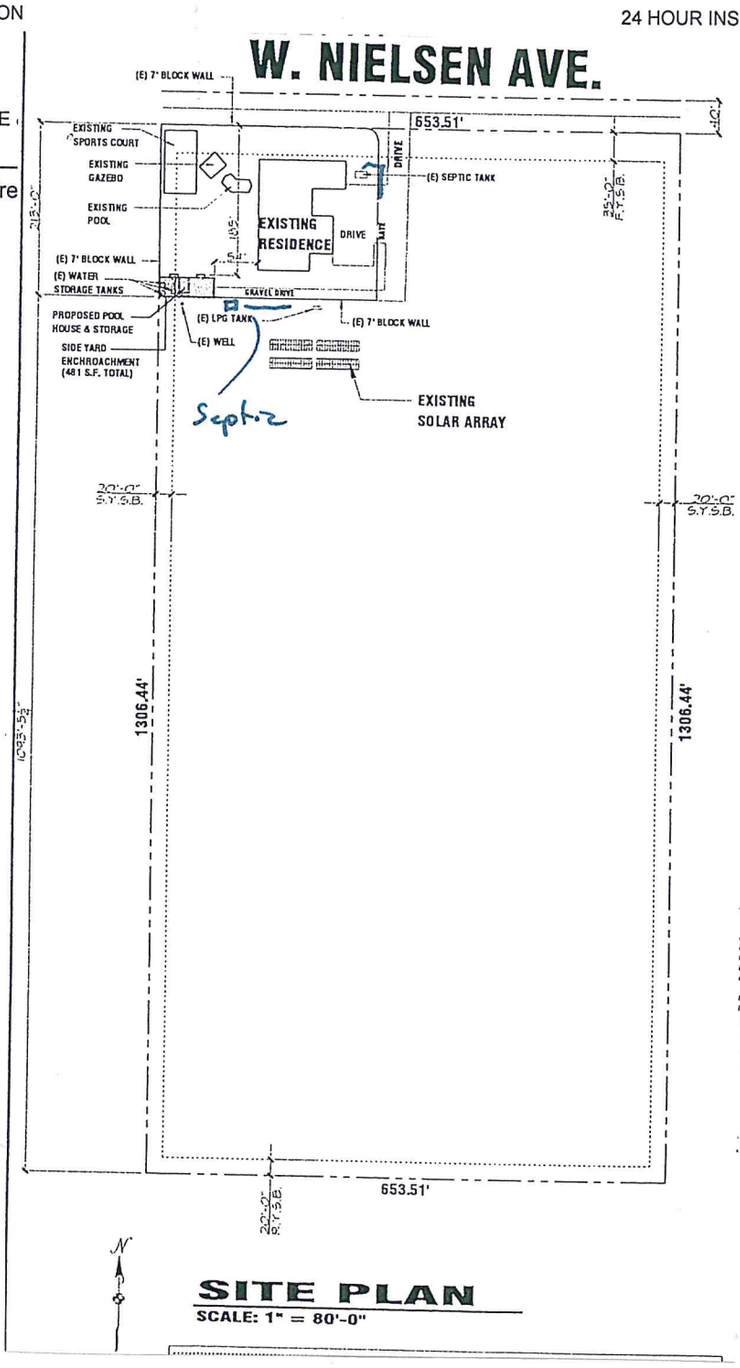
PLEASE USE BLACK INK

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

NOTE: Please show the entire



PC # 17-0735 ADDRESS: 15319 W. Nielsen

NOTE: All setbacks are measured from the property lines unless otherwise indicated.

APN: 020-120-035

Approved By: [signature] Date: 6/12/18

Bldg. Permit # 17-107153

PROJECT ADDRESS: 15319 W. Nielsen
OWNER: Jaroop 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 UNITES 7
MIN. SEPTIC TANK 1000 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 Jun 12 18

G:\4360Devs&Pln\FORMS\F036A NEW PLOT PLAN FORM.doc

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

15319 W NIELSEN AVE KERMAN CA 93630

Project Address	Cross Street	Project Description
15319 W NIELSEN AVE KERMAN CA 93630	DEL NORTE	SOLAR GROUND MOUNT FOR SFR

Permit #: **17-100920-FC** Issued on: APN: **02012003S**

Owner:	Applicant:	Contractor:
GILL JAGROOP S TRUSTEE	KUTUMIAN CONSTRUCTION *JERRY KUTUMIAN*	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
Plan Review	Carsey, Rod	July 06, 2017
Zoning Review	Mtunga, Tawanda	February 13, 2017

Zoning District	Required Setbacks:	Front		Side		Rear
		Min	Max	Interior	Street	Min
AE20		35		20		20

PROJECT INFORMATION

Contractor License Class: **B**
FMFCD Rural Streams: **No**
Roof Classification: **Class C or better**
Estimated Construction Value: **10000**
Occupancy Pending RTMF: **No**
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 Contractor KUTUMIAN 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 _____ 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 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.

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	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Flood Prone-Elevation				
Foundation: Forms & Setback Piles		7/10/17		
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		7/10/17		
Insulation				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck				
Pool Fencing & Gates				
FINAL INSPECTION		7/10/17		
CERTIFICATE OF OCCUPANCY				

ELECTRICAL			CORRECTIONS	
TYPE OF INSPECTION	APPROVED BY	DATE	INSPECTOR	DATE
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior BORED		7/10/17		
Rough Wiring 60A x3				
Elec. Main Panel 200 Amps				
Temporary Meter LINE TAP				
Temporary Power Pole				
Ufer Location/Driven Ground		7/10/17		
Water Pipe Bond Location PEX				
Wiring To Well				
Pool Equipment Bonding				
FINAL INSPECTION SOLAR		7/10/17		

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				

REMARKS

CASH DEPOSIT Temporary Power Occupancy	AMOUNT
APPROVED TO POST BY:	DATE
APPROVED FOR REFUND BY:	DATE
REFUNDED BY:	DATE

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)	

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

PLOT PLAN

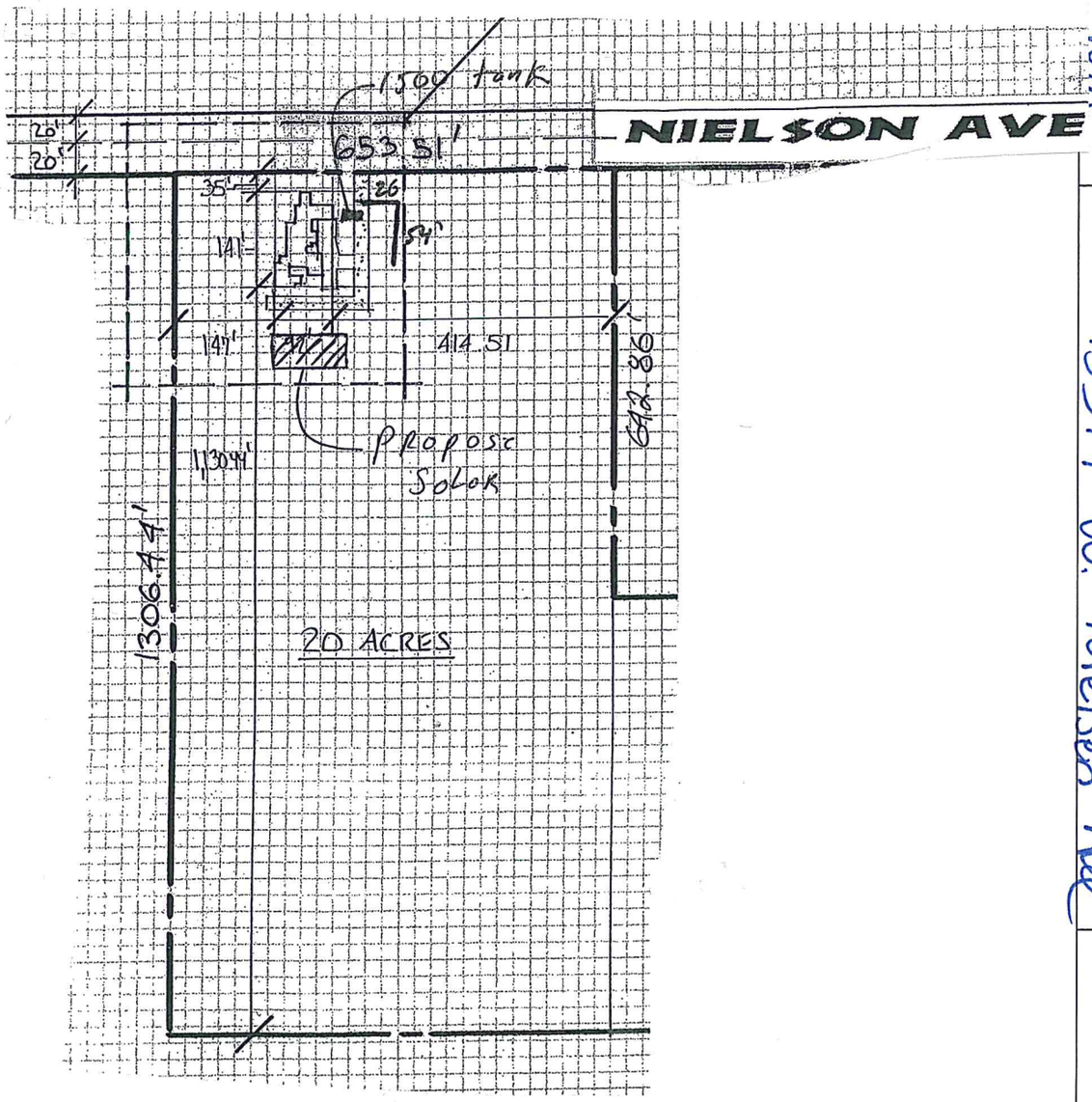
24 HOUR INSPECTION REQUEST
ANSWERING SERVICE
(559) 600-4131

TOLL FREE: 1 (800) 742-1011

NOTE: Please s... ...proval of land with all existing and proposed structures.

PC # 9M

ADDRESS: 15319 W. Nielsen Ave



NOTE: All setbacks are measured from the property lines unless otherwise indicated.

APN: 020-120-03

Approved By: | Date: | Bldg. Permit # 17-100920

PROJECT ADDRESS: 15319 W. Nielsen Ave
OWNER: Jay Gill MAIL ADDRESS: SAME
CITY: Kerman STATE: CA ZIP: 93630 TEL NO:

SEWAGE DISPOSAL SPECIFICATIONS: ( ) Community Sewer ( ) Engineered System ( ) Septic
TYPE OF USE TO BE SERVED _____ NO. BEDROOMS _____ OR NO. FIXTURE UNITES _____
MIN. SEPTIC TANK _____GAL LEACHING FACTOR _____SQ FT. /100 GAL NO. TEST HOLES INSPECTED_____

WATER WELL SPECIFICATIONS
WELL LOG NO. _____
DATE: _____
GPM: _____

COMMENTS:

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 _____ Date Feb 13 17

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	Cross Street	Project Description:
15319 W NIELSEN AVE KERMAN CA 93630	DEL NORTE AVENUE	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	Applicant	Contractor
GILL JAGROOP S & RUPINDER K	BLUE OASIS POOLS	BLUE OASIS POOLS
Address: P O BOX 680 KERMAN CA 93630 \	Address: 4957 E LANSING WAY FRESNO CA \	Address: 4957 E LANSING WAY FRESNO CA \
Phone: (559) 906-6065	Phone: (559) 294-9800 St. Lic.: 833390	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	Required Setbacks:	Front		Side		Rear
		Min	Max	Interior	Street	Min
AE20		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_____

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 11/15/07

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 Nielsen

PERMIT NUMBER 11067

(CORRECTION NOTICE DOES NOT NECESSARILY COORDINATE WITH ADJACENT INSPECTION)

BUILDING

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTION 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				
Shower Wall Over Tub				
Shower Pan & Walls				
Bond Beam & Steel				
Pool Steel, Bonding & Setback				
Pre-Deck Cows		11-27-07		
Pool Fencing and Gates		11-27-07		
PIT MUST BE NATURAL	SEE REMARKS	1-20-09		
FINAL INSPECTION GAS.		1-20-09		
CERTIFICATE OF OCCUPANCY				

OCCUPANCY REQUIREMENTS

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		

ELECTRICAL

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	DATE
Conduit: PVC/Galv. Interior				
Conduit: PVC/Galv. Exterior		11-27-07		
Rough Wiring				
Elec. Main Panel 100 Amps		1-20-09		
Temporary Meter				
Temporary Power Pole				
Ufer Location/Driven Ground				
Water Pipe Bond Location				
Wiring to Well				
Pool Equipment Bonding		1-20-09		
		1-20-09		
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		

PLUMBING

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS 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 *	A. Morrow	4-25-08		
Second Floor Tub Test				
Septic System				
House Sewer				
Water Service PVC/Galv.				
Well Seal Pad				
FINAL INSPECTION				

Mechanical

TYPE OF INSPECTION	APPROVED BY	DATE	CORRECTIONS INSPECTOR	DATE
Ducts Underfloor				
Ducts Overhead				
Wood Burning Appliance				
Refrigeration Unit/Furnace				
Evaporative Cooler				
Gas Pipe				
Gas Test	A. Morrow	2-8-08		
FINAL INSPECTION				

REMARKS

NO GAS RUN TO FIRE AT.

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

Form 35A Rev 5/05

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

Historical Aerial Photo Report 2024

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

YEAR:	***SCALE:***	***SOURCE:***
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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FLIGHT YEAR:
1946

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
1954

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1957

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
1960

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1962

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
1965

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
1966

N
W E
S

Scale: 1" = 1,000'

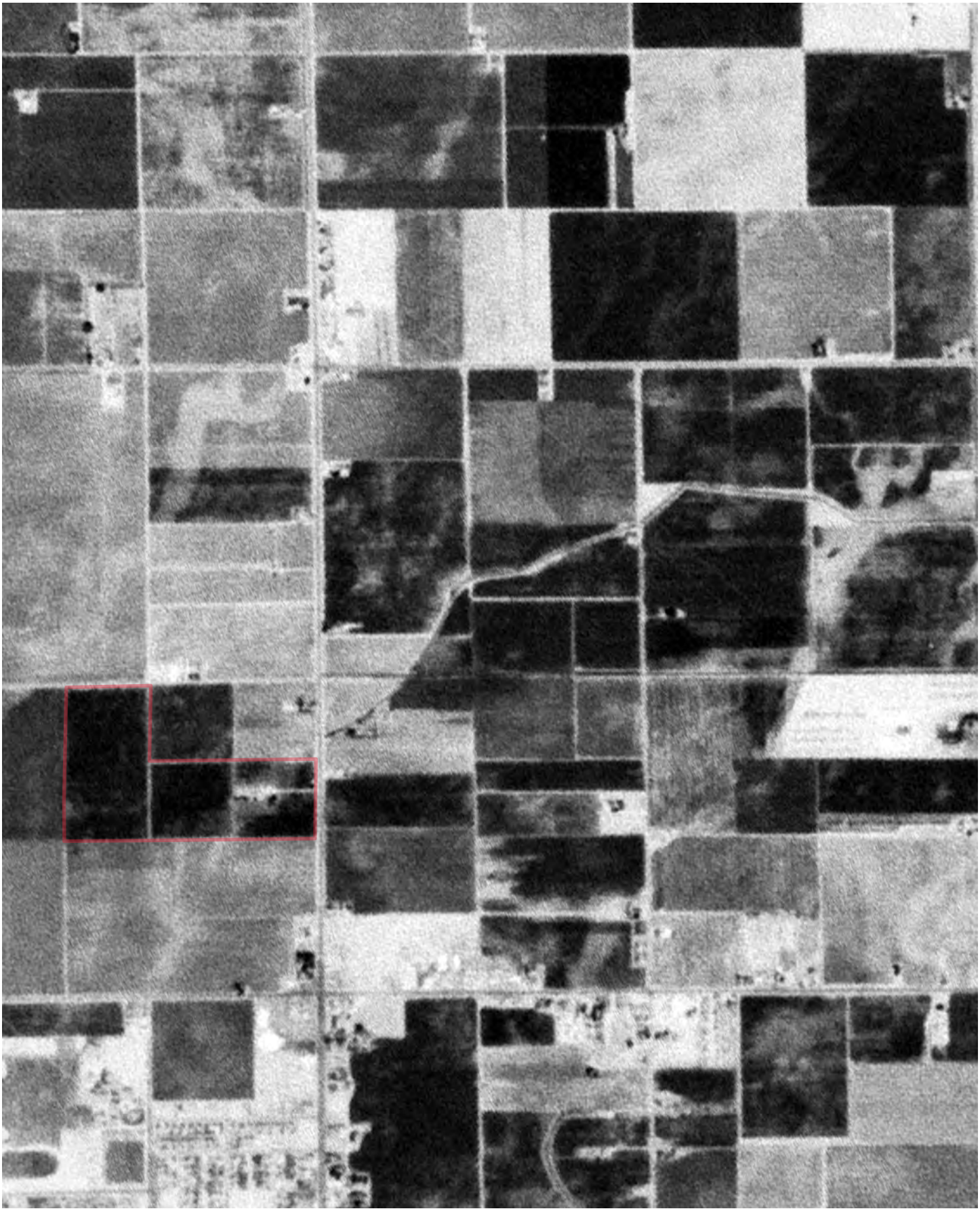


FLIGHT YEAR:
1968

Subject Cannot Be Centered

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1971

N
W E
S

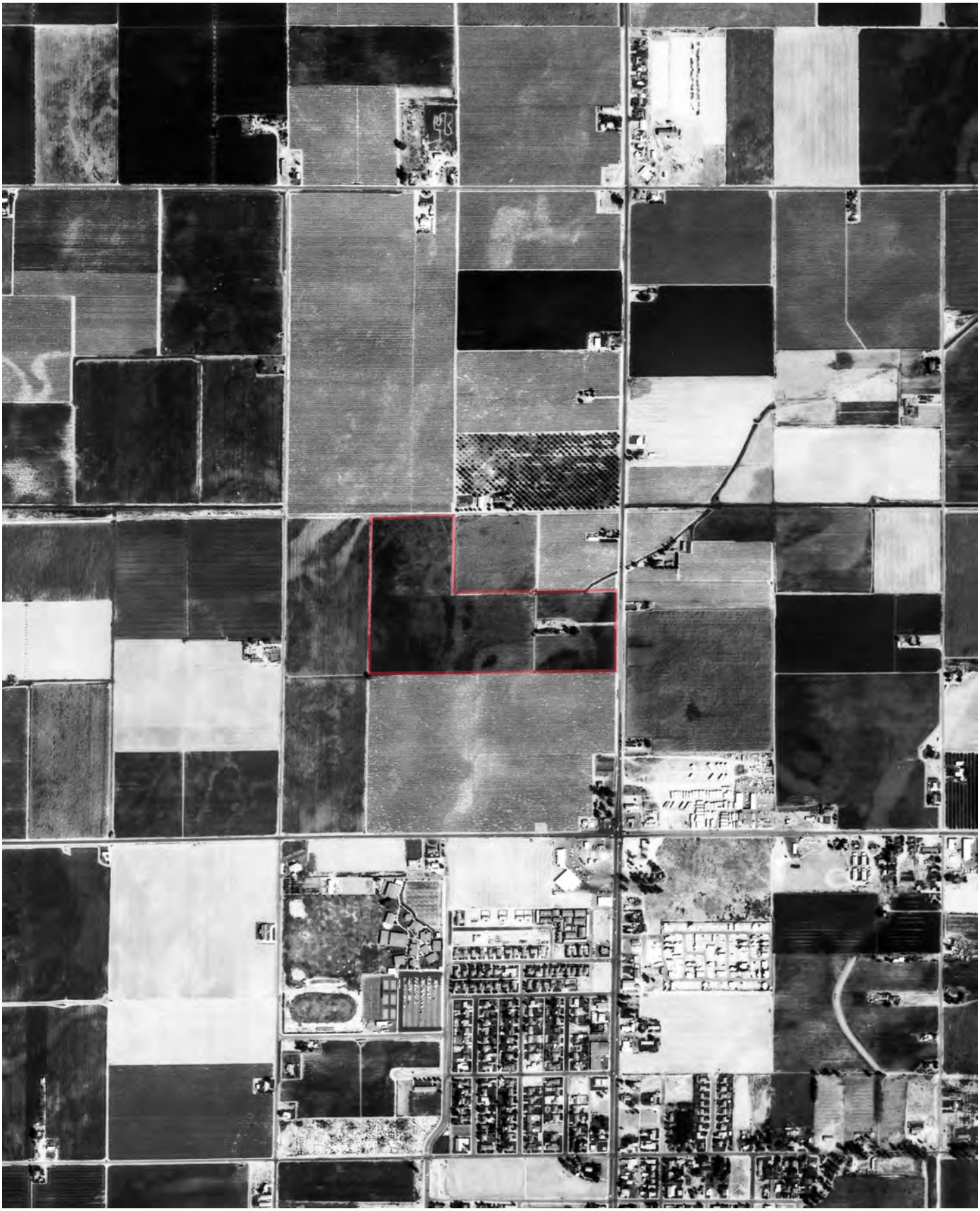
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FLIGHT YEAR:
1975

N
W E
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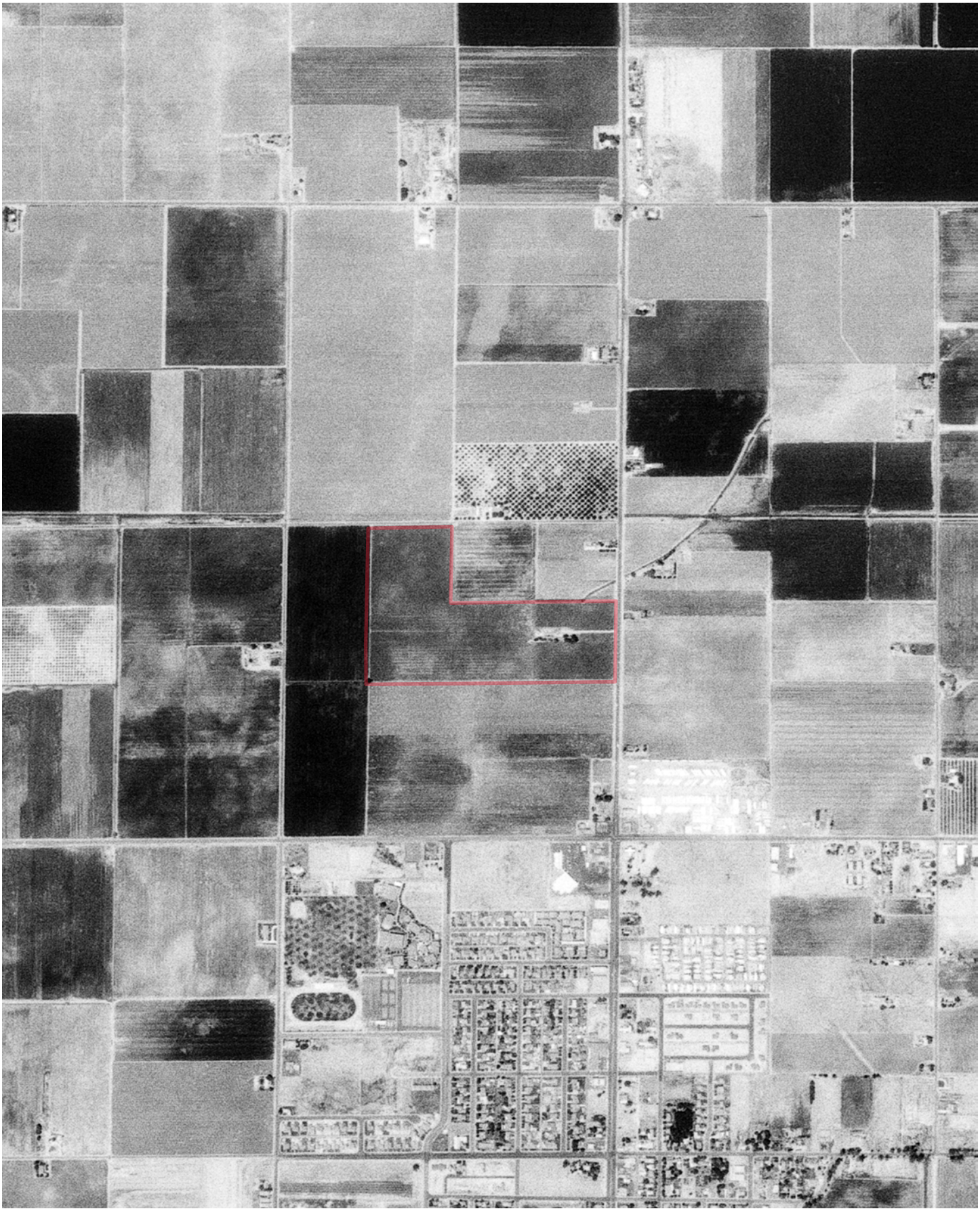
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FLIGHT YEAR:
1978

N
W E
S

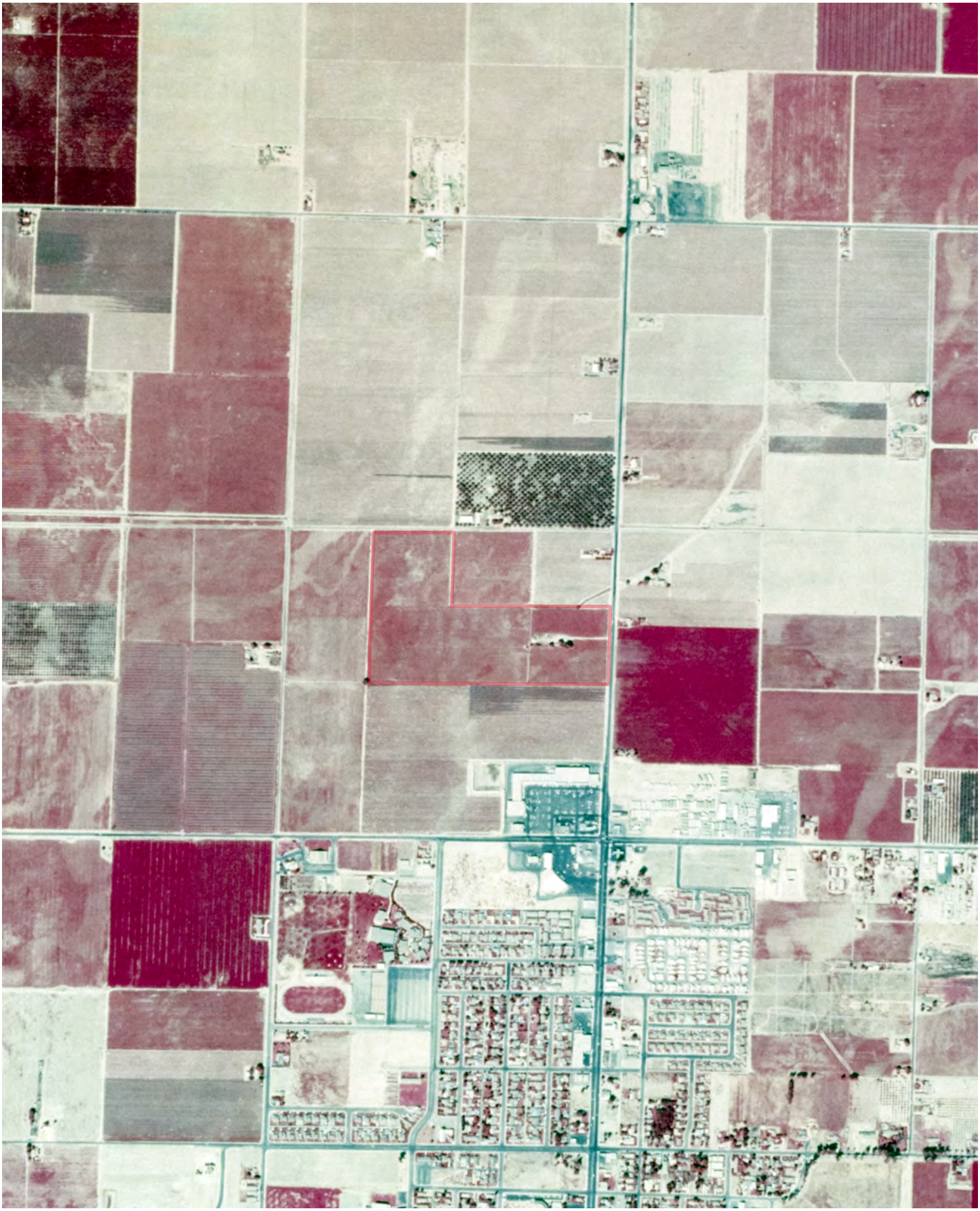
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FLIGHT YEAR:
1981

N
W E
S

Scale: 1" = 1,000'

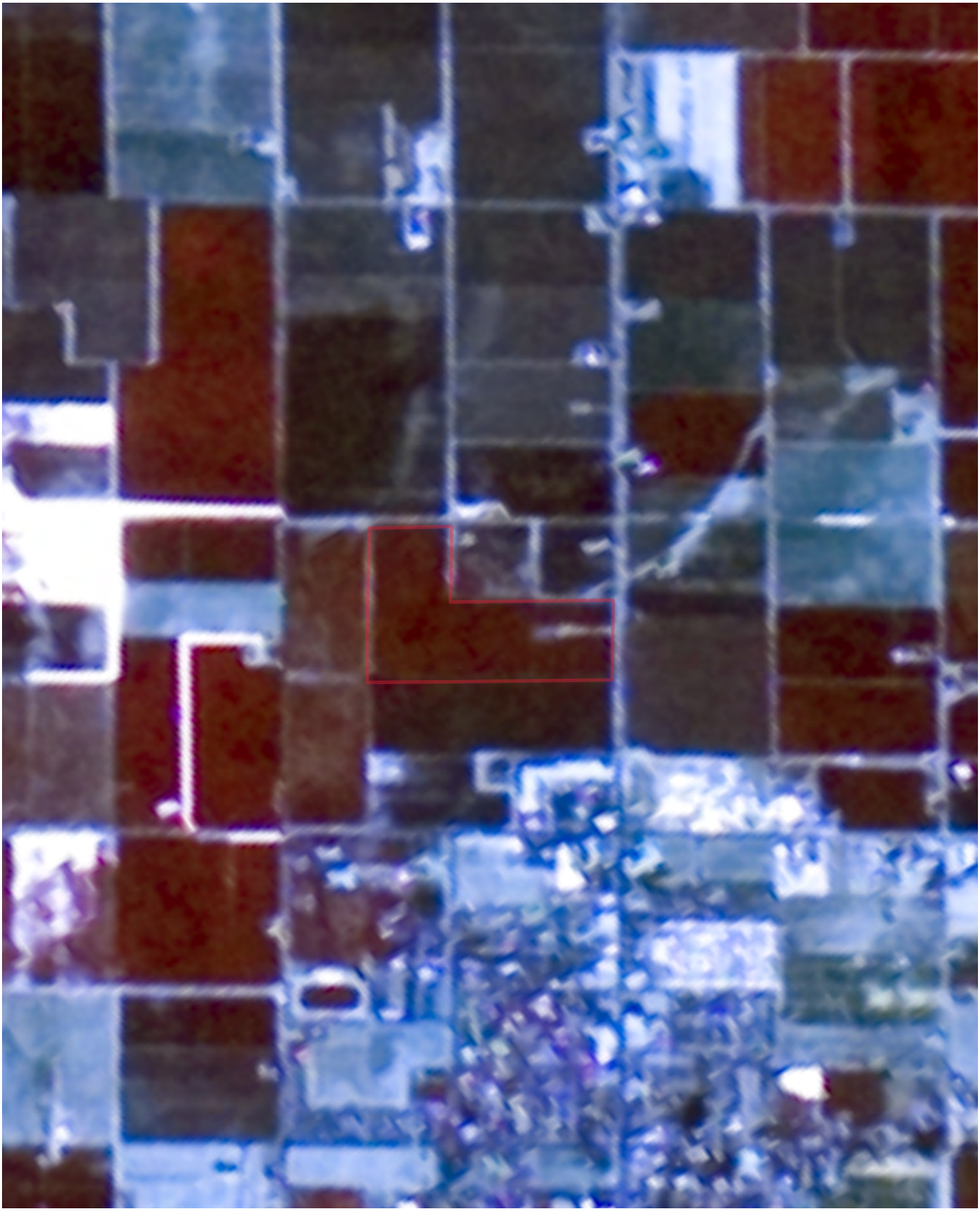


FLIGHT YEAR:
1982

Best Quality Available

N
W E
S

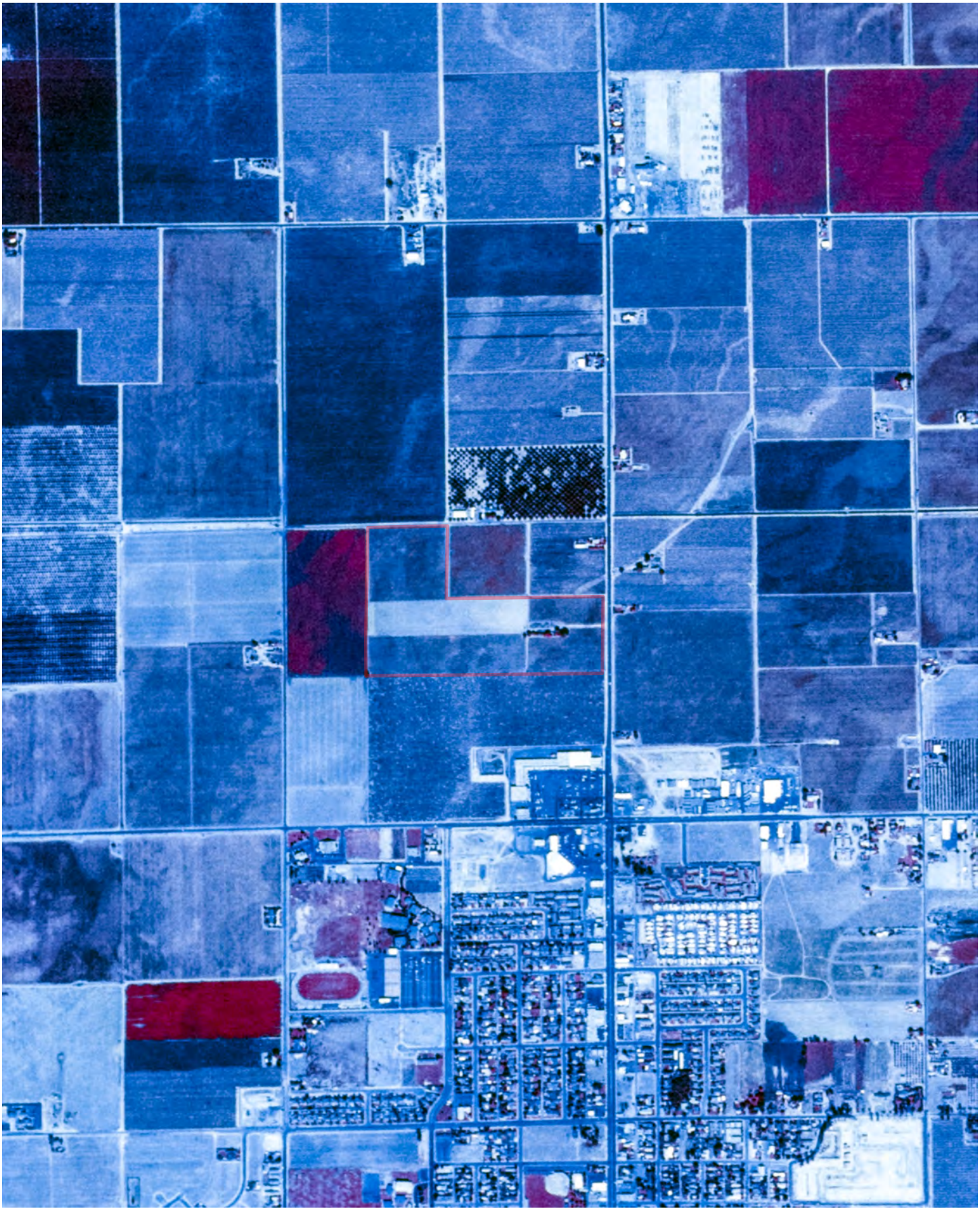
Scale: 1" = 1,000'



FLIGHT YEAR:
1984

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1985

Best Quality Available

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1987

N
W E
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Scale: 1" = 500'



FLIGHT YEAR:
1993

N
W E
S

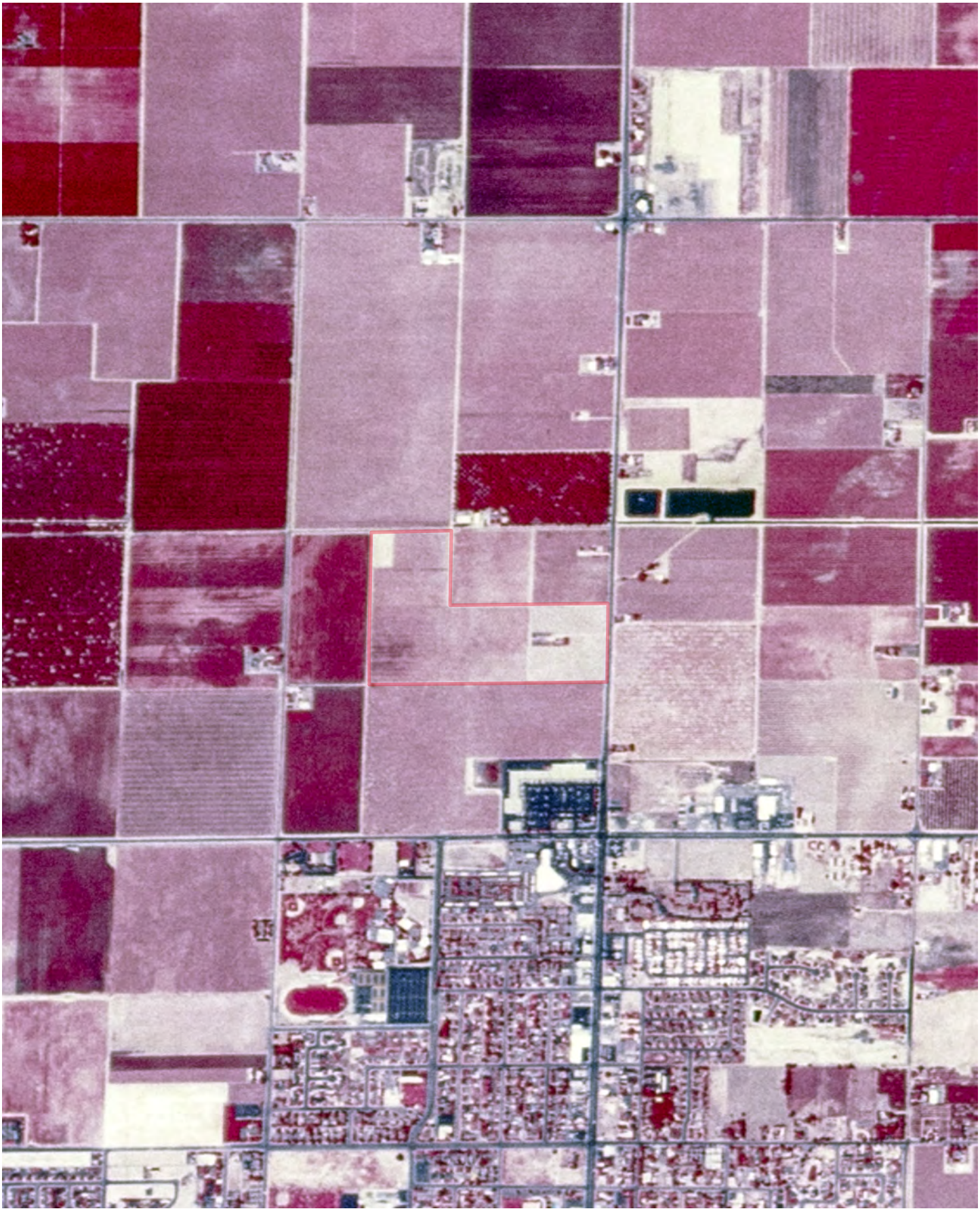
Scale: 1" = 1,000'



FLIGHT YEAR:
1995

N
W E
S

Scale: 1" = 1,000'



FLIGHT YEAR:
1998

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2005

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2009

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2010

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2012

N
W E
S

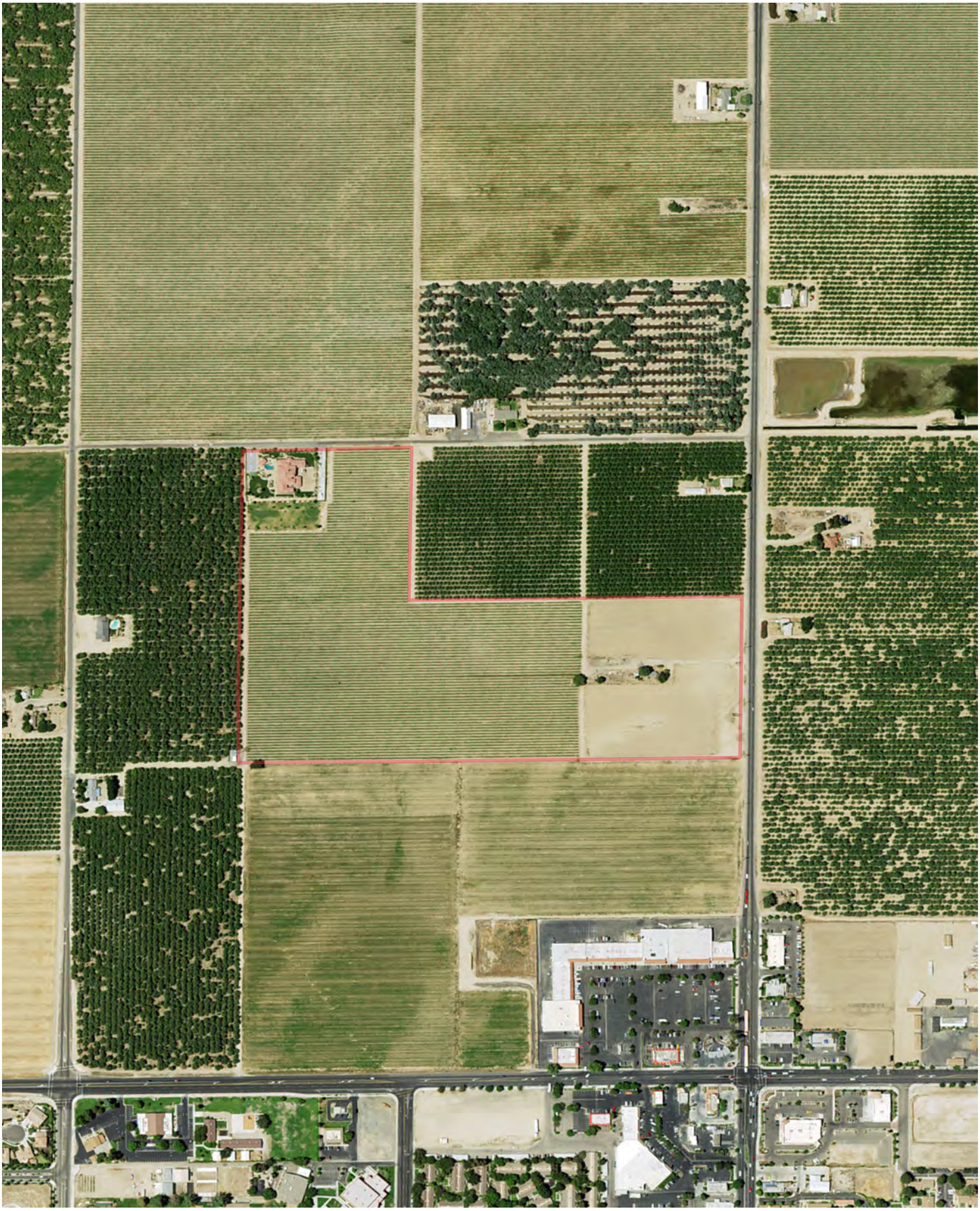
Scale: 1" = 500'



FLIGHT YEAR:
2014

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2016

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2018

N
W E
S

Scale: 1" = 500'



FLIGHT YEAR:
2020

N
W E
S

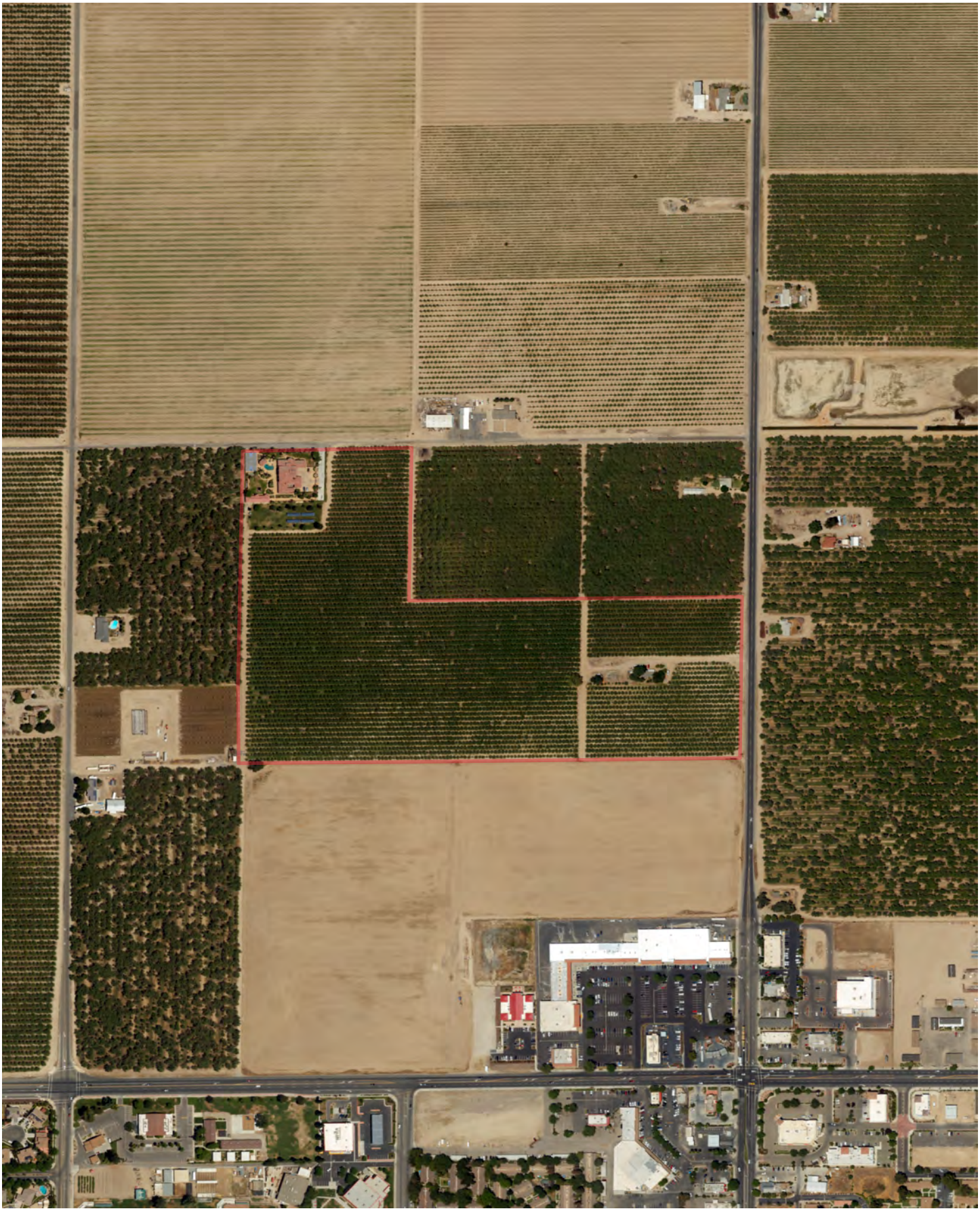
Scale: 1" = 500'



FLIGHT YEAR:
2022

N
W E
S

Scale: 1" = 500'



APPENDIX E

HISTORIC CITY DIRECTORIES

ENVIROSITE

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

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56 Broome Corporate Parkway
Conklin, NY 13748

Toll Free: 866-211-2028
www.envirositecorp.com

Prepared for Envirosite Corporation By:

Property Archives

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:

SOURCE:	***YEAR:***
Property Archives	2020, 2015, 2010, 2006, 2001, 1998, 1993
Central San Joaquin Valley Criss Cross Directory	1988, 1983, 1978, 1972

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Property Archives

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 BLAIR	15175 W Nielsen Ave
PAT BLAIR	15175 W Nielsen Ave

2015 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

JAY BLAIR	15175 W NIELSEN AVE
PAT BLAIR	15175 W NIELSEN AVE
BLAIR APIARIES	15175 W NIELSEN AVE

2010 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

JAY BLAIR	15175 W NIELSEN AVE
PATRICIA BLAIR	15175 W NIELSEN AVE
BLAIR APIARIES	15175 W NIELSEN AVE

2006 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

Jay Ray Blair	15175 W Nielsen Ave
Jay Blair	15175 W NIELSEN AVE

2001 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

Jay R Blair	15175 W Nielsen Ave

1998 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

Jay Ray Blair	15175 W Nielsen Ave

1993 **15050- 15319 W Nielsen Ave, Kerman, CA, 93630**

BLAIR JAY R	15175 W NIELSEN AVE

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

YEAR: 1988

INFO:
12311 GORE Bill
12455 XXXX
15175 BLAIR David
BLAIR Jay Ray
16122 HOUSER Ralph
16205 XXXX
16235 XXXX

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

YEAR: 1983

INFO:
12455 XXXX
15175 BLAIR JAY RAY
FROST JERRY
16122 HOUSR RALPH
16205 XXXX

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

YEAR: 1978

INFO:
12300 BLANKENSHIP B E
12311 ROGINA ALEX
12455 BRINGETTO PAUL
BRINGETTO VICTOR P
15175 BLAIR JAY RAY
FROST JERRY
16122 HOUSR RALPH
16205 XXXX

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: 15050- 15319 W Nielsen Ave, Kerman, CA, 93630

YEAR: 1972

INFO:
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

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: CA 145 (Alias- N Madera Ave), Kerman, CA

YEAR: 1988

INFO:
150 XXXX
402 ZEMANSKY P
447 VALLANDINGHAM Joe
564 PIERCE Anita
592 MEDICO John L
733 PATAPOFF Mike
808 PATAPOFF Stan
950 *METAL ART
1020 *HOLLIS&IHDE TIRE SL
*WALLYS TIRE&WHEEL

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: CA 145 (Alias- N Madera Ave), Kerman, CA

YEAR: 1983

INFO:
402 ZEMANSKY P
447 VALLANDINGHAM Joe
564 XXXX
592 MEDICO John L
733 PATAPOFF Mike

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: CA 145 (Alias- N Madera Ave), Kerman, CA

YEAR: 1978

INFO:
150 * KERMAN CUSTOM FURN
304 XXXX
309 XXXX
342 XXXX
402 1/2 TAYLOR BLAINE
447 VALLANDINGHAM JOE
564 XXXX
592 MEDICO JOHN L
733 PATAPOFF MIKE
808 PATAPOFF STAN

SOURCE: Central San Joaquin Valley Criss Cross Directory

STREET: CA 145 (Alias- N Madera Ave), Kerman, CA

YEAR: 1972

INFO:
309 PATAPOFF JENNIE
402 BECK JIM
402 1/2 SMITH ROD
447 VALLANDINGHAM JOE
564 WARD WILL
733 PATAPOFF MIKE
808 AREVALO MARY LOU
950 HALE FLOYD
