CITY OF FRESNO

NOTICE OF INTENT TO ADOPT A

MITIGATED NEGATIVE DECLARATION

Filed with the
FRESNO COUNTY CLERK
2220 Tulare Street, Fresno, CA 93721

ENVIRONMENTAL ASSESSMENT FOR VESTING TENTATIVE TRACT MAP APPLICATION NO. 6400/UGM & PLANNED DEVELOPMENT PERMIT APPLICATION NO.P22-01515

APPLICANT:

De Young Properties – Team 5
Brandon De Young
677 W Palmdon Drive, Suite 208
Fresno, CA 93704

PROJECT LOCATION:

The Project is on the southwest corner of Clinton Avenue and Armstrong Avenue in the City and County of Fresno, California (See Exhibit A - Vicinity Map)

APN: 574-050-02

Site Latitude: 36°46'16.62" N & Site Longitude: 119°40'27.20" W Mount Diablo Base & Meridian, Township 13S, Range 21E, Section 27

The full Initial Study and the Fresno General Plan Program Environmental Impact Report (PEIR) are on file in the Planning and Development Department, Fresno City Hall, 3rd Floor, Room 3043, 2600 Fresno Street, Fresno, CA 93721.

PROJECT DESCRIPTION:

Brandon De Young, on behalf of De Young Properties, has filed Vesting Tentative Tract Map No. 6400/UGM and Planned Development Permit Application No. P22-01515 pertaining to approximately 11.65 net acres of property located on the southwest corner of East Clinton and North Armstrong Avenues. Vesting Tentative Tract Map No. 6400/UGM is a proposal to subdivide the property into a 72-lot single-family residential subdivision with public streets. The proposed density of the subdivision is 6.18 dwelling units per acre (du/ac). Planned Development Permit Application No. P22-01515 requests authorization to modify development standards for the RS-5 *(Single Family Residential, Medium Density)* zone district. The application is consistent with the planned land use of the medium desity residential as designated by the Fresno General Plan.

The City of Fresno has prepared an Initial Study of the above-described project and proposes to adopt a Mitigated Negative Declaration. The environmental analysis contained in the Initial Study is tiered from the PEIR State Clearinghouse No. 2019050005 prepared for the Fresno General Plan pursuant to CEQA Guidelines § 15152 and incorporates the PEIR by reference pursuant to CEQA Guidelines § 15150.

Pursuant to the California Public Resources Code (PRC) §§ 21093 and 21094 and California Environmental Quality Act (CEQA) Guidelines §§ 15070 to 15075, 15150, and 15152, this project has been evaluated with respect to each item on the attached Appendix G/Initial Study Checklist to determine whether this project may cause any additional significant effect on the environment, which was not previously examined in the PEIR. After conducting a review of the adequacy of the PEIR pursuant to PRC § 21157.6(b)(1) and CEQA Guidelines §§ 15151 and 15179(b), the Planning and Development Department, as lead agency, finds that no substantial changes have occurred with respect to the circumstances under which the PEIR was certified and that no new information, which was not known and could not have been known at the time that the PEIR was certified as complete, has become available.

The completed Appendix G/Initial Study Checklist, its associated narrative, technical studies and mitigation measures reflect applicable comments of responsible and trustee agencies and research and analyses conducted to examine the interrelationship between the proposed project and the physical environment. The information contained in the project application and its related environmental assessment application, responses to requests for comment, checklist, Initial Study narrative, and any attachments thereto, combine to form a record indicating that an Initial Study has been completed in compliance with the State CEQA Guidelines and the CEQA.

All new development activity and many non-physical projects contribute directly or indirectly toward cumulative impacts on the physical environment. It has been determined that the incremental effect contributed by this project toward cumulative impacts is not considered substantial or significant in itself and/or that cumulative impacts accruing from this project may be mitigated to less than significant with application of feasible mitigation measures.

With mitigation imposed under the PEIR and project specific mitigation, there is no substantial evidence in the record that this project may have additional significant, direct, indirect or cumulative effects on the environment that are significant and that were not identified and analyzed in the PEIR. The Planning and Development Department, as lead agency, finds that no substantial changes have occurred with respect to the circumstances under which the PEIR was certified and that no new information, which was not known and could not have been known at the time that the PEIR was certified as complete has become available.

Based upon the evaluation guided by the Appendix G/Initial Study Checklist, it was determined that there are not project specific foreseeable impacts which require project level mitigation measures.

The Initial Study has concluded that the proposed project will not result in any adverse effects, which fall within the "Mandatory Findings of Significance" contained in § 15065 of the State CEQA Guidelines. The finding is, therefore, made that the proposed project will not have a significant adverse effect on the environment.

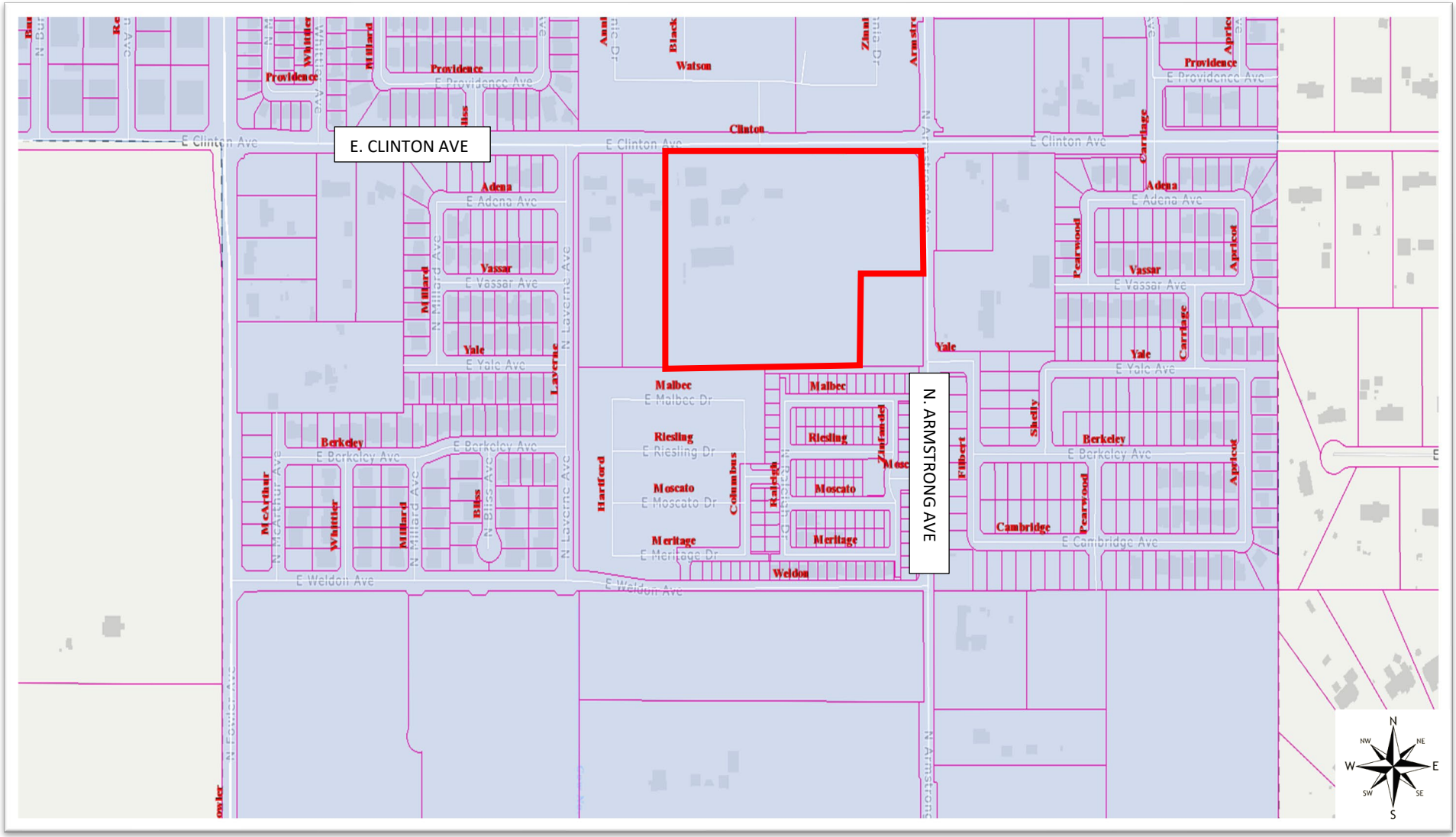
Public notice has been provided regarding staff's finding in the manner prescribed by § 15072 of the CEQA Guidelines and by § 21092 of the PRC Code (CEQA provisions).

Additional information on the proposed project, including the PEIR, proposed environmental finding of a Mitigated Negative Declaration and the Initial Study may be obtained from the Planning and Development Department, Fresno City Hall, 2600 Fresno Street, 3rd Floor, Room 3043, Fresno, California 93721 3604. Please contact Juan Lara at (559) 621-8075 or via email at Juan.Lara@fresno.gov for more information.

ANY INTERESTED PERSON may comment on the proposed environmental finding. Comments must be in writing and must state (1) the commentor's name and address; (2) the commentor's interest in, or relationship to, the project; (3) the environmental determination being commented upon; and (4) the specific reason(s) why the proposed environmental determination should or should not be made. Any comments may be submitted at any time between the publication date of this notice and close of business on August 03, 2022. Please direct comments to Juan Lara, Planner III at City of Fresno Planning and Development Department, City Hall, 2600 Fresno Street, Room 3043, Fresno, California, 93721-3604; or by email to Juan.Lara@fresno.gov.

INITIAL STUDY PREPARED BY: Juan Lara, Planner III, City of Fresno	SUBMITTED BY:  Israel Trejo, Supervising Planner CITY OF FRESNO PLANING AND DEVELOPMENT DEPARTMENT
DATE: July 14, 2022	
Attachments: Exhibit A – Vicinity Map	

Exhibit A: Vicinity Map



Subject Property

APPENDIX G/INITIAL STUDY FOR A MITIGATED NEGATIVE DECLARATION

Environmental Checklist Form for:
Environmental Assessment No. T-6400/P22-01515

1.	**Project title:** Vesting Tentative Tract Map No. T-6400/UGM & Planned Development Permit Application P22-01515
2.	**Lead agency name and address:** City of Fresno Planning and Development Department 2600 Fresno Street Fresno, CA 93721
3.	**Contact person and phone number:** ***Juan Lara, Planner III*** City of Fresno Planning and Development Department 2600 Fresno Street, Room 3065 Fresno, CA 93721 (559) 621-8277
4.	**Project location:** The Project is on the southwest corner of Clinton Avenue and Armstrong Avenue in the City of Fresno, California Site Latitude: 36°46'16.62"N Site Longitude: 119°40'27.20"W Mount Diablo Base & Meridian, Township 13S, Range 21E, Section 27 Assessor's Parcel Number(s): 574-050-02
5.	**Project sponsor's name and address:** De Young Properties – Team 5 Brandon De Young 677 W Palmdon Drive, Suite 208 Fresno, CA 93704
6.	**General & Community plan land use designation:** Residential-Medium Density (City of Fresno General Plan)
7.	**Zoning:** Residential Single-Family, Medium Density (RS-5)

8. **Description of Project:**

Brandon De Young, on behalf of De Young Properties, has filed Vesting Tentative Tract Map No. 6400/UGM and Planned Development Permit Application No. P22-01515 pertaining to approximately 11.65 net acres of property located on the southwest corner of East Clinton and North Armstrong Avenues. Vesting Tentative Tract Map No. 6400/UGM is a proposal to subdivide the property into a 72-lot single-family residential subdivision with public streets. The proposed density of the subdivision is 6.18 (du/ac). Planned Development Permit Application No. P22-01515 requests authorization to modify development standards for the RS-5 *(Single Family Residential, Medium Density)* zone district. The application is consistent with the planned land use of the medium density residential as designated by the Fresno General Plan.

9. **Surrounding land uses and setting:**

	Planned Land Use	Existing Zoning	Existing Land Use
North	Residential – Medium Density	RS-5 (Residential Single-Family, Medium Density)	Residential – Medium Density
East	Residential – Medium Density Residential – Low Density	RS-4 (Residential Single-Family, Medium Low Density) RS-1 (Residential Single-Family, Extremely Low Density)	Rural Residence, Light Industrial
South	Residential – Medium Density	RS-5 (Residential Single-Family, Medium Density)	Residential – Medium Density
West	Rural Residential	RS-5 (Residential Single-Family, Medium Density)	Residential – Medium Density

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):**

Planning and Development Department, Building & Safety Services Division; Department of Public Works; Department of Public Utilities; County of Fresno, Department of Community Health; County of Fresno, Department of Public Works and Planning; City of Fresno Fire Department; Fresno Metropolitan Flood Control District; and San Joaquin Valley Air Pollution Control District

11.	**Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code (PRC) Section 21080.3.1? If so, has consultation begun?** 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 California Environmental Quality Act (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, California is home to 109 currently recognized Indian tribes. Tribes in California currently have nearly 100 separate reservations or rancherias. Fresno County has a number of rancherias such as Table Mountain Rancheria, Millerton Rancheria, Big Sandy Rancheria, Cold Springs Rancheria, and Squaw Valley Rancheria. These rancherias are not located within the city limits. 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. Currently, the Table Mountain Rancheria Tribe and the Dumna Wo Wah Tribe have requested to be notified pursuant to Assembly Bill 52 (AB 52). A certified letter was mailed to the above-mentioned tribes on March 15, 2022. The 30-day comment period ended on April 16, 2022. Both tribes did not request consultation.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☐	Aesthetics	☐	Agriculture and Forestry Resources

☐	Air Quality	☐	Biological Resources
☐	Cultural Resources	☐	Energy
☐	Geology/Soils	☐	Greenhouse Gas Emissions
☐	Hazards and Hazardous Materials	☐	Hydrology/Water Quality
☐	Land Use/Planning	☐	Mineral Resources
☐	Noise	☐	Population/Housing
☐	Public Services	☐	Recreation
☐	Transportation	☐	Tribal Cultural Resources
☐	Utilities/Service Systems	☐	Wildfire
☐	Mandatory Findings of Significance		

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

___	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
__X__	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.



July 14, 2022

Planner Name, Title — Date

EVALUATION OF ADDITIONAL ENVIRONMENTAL IMPACTS NOT ASSESSED IN PROGRAM ENVIRONMENTAL IMPACT REPORT SCH NO. 2019050005 PREPARED FOR THE APPROVED FRESNO GENERAL PLAN (GP PEIR):

Note to preparer: For projects that are consistent with the Fresno General Plan and Zoning (or where the zoning will be changed only for the purposes of achieving consistency with the General Plan), tiering pursuant to CEQA Guidelines Section 15152 may be used. If tiering will be used, please comply with the requirements of Section 15152(g).
For projects that are not completely consistent with the Fresno General Plan and Zoning (i.e., projects that include a General Plan Amendment and/or Rezone), the provisions of CEQA Guidelines Section 15152 do not apply. However, the GP PEIR and its analysis may still be incorporated by reference to provide a basis for the project's initial study, to address regional influences, secondary effects, cumulative impacts, and broad alternatives pursuant to CEQA Guidelines 15168(d).

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

    a. "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.

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

    c. "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.

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

2. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A

"No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

3. All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

4. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

5. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (6) below, may be cross-referenced).

6. Earlier analyses may be used where, pursuant to the tiering, Program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

    a. Earlier Analysis Used. Identify and state where they are available for review.

    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in the GP PEIR or another earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

    c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

7. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

8. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

9. The explanation of each issue should identify:

    a. The significance criteria or threshold, if any, used to evaluate each question; and

    b. The mitigation measure identified, if any, to reduce the impact to less than significance.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS – Except as provided in PRC Section 21099, would the project:				
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 a 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		

DISCUSSION

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

The Fresno General Plan PEIR provides and recognizes that the City has not identified or designated scenic vistas within its General Plan. The River bluffs provide distant views of the San Joaquin River as well as areas north of the River. However, the majority of these views are from private properties. There are limited views of the San Joaquin River from Weber Avenue, Milburn Avenue, McCampbell Drive, Valentine Avenue, Palm Avenue, State Route (SR) 41, Friant Road, and Woodward Park.

The Project site is located within an area designated for residential zoning and land use designation within the City of Fresno and is outside of the San Joaquin River bluffs and not near the Downtown Fresno area. Properties to the east and west have been developed, and areas further north and east are developed with residential communities. The subject Project site is currently undeveloped. The existing topography of the Project site is nearly flat. As there are no identified scenic vistas within the Project area, the Project will have *no impact.*

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

Scenic resources include landscapes and features that are visually or aesthetically pleasing and contribute positively to a distinct community or region. The scenic resources within the City include landscaped open spaces, such as parks and golf courses. Additional scenic resources within the City include areas along the San Joaquin River (River) due to the topographic variation in the relatively flat San Joaquin Valley. The River bluffs provide a unique geological feature in the San Joaquin Valley. Historic structures in Downtown Fresno buildings also represent scenic resources because they provide a unique skyline.

The Project site is not within the vicinity of a State designated scenic highway. Therefore, the Project would have no impact associated with substantial damage to scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway. The Project will have *no impact*.

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 a 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?

The Project will not damage nor will it degrade the visual character or quality of the Project site and its surroundings, given that the Project site is primarily vacant, in an area that is also primarily rural residential/vacant; and in an area generally planned for and developed with residential uses. As such, impacts to the visual character or quality of the site would be less than significant due to the development improving the existing character of the site and the surrounding properties being of similar use. The Project will have a *less than significant impact.*

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

The Project will introduce new sources of light to the area with the construction of new residential units that may use outdoor lighting, which may be a significant impact. The Project is within an area that already consists of daytime and nighttime lighting and the Project would include lighting of a similar nature. The Project site is within an area

where development has already occurred with residential uses, which already affects day and nighttime views in the Project site to a certain degree.

The Project would be subject to the applicable mitigation measures pertaining to light and glare included in PEIR SCH AES-4.1 and AES-4.2. AES- 4.1 requires lighting to include shields to direct light to the roadway and AES-4.2 requires lighting systems of low intensity and shields to minimize light trespass onto neighboring properties. Furthermore, through the entitlement process, staff will ensure that lights are located in areas that will minimize light sources to the neighboring properties.

In conclusion, with GP PEIR mitigation measures incorporated as discussed above, the Project will not result in any additional impacts related to aesthetics. The Project impacts are considered *less than significant with mitigation incorporated*.

Mitigation Measures

The proposed Project shall implement and incorporate the aesthetic related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12, 2022

AES-4.1: Lighting for Street and Parking Areas. Lighting systems for street and parking areas shall include shields to direct light to the roadway surfaces and parking areas. Vertical shields on the light fixtures shall also be used to direct light away from adjacent light-sensitive land uses such as residences.

AES-4.2: Lighting for Public Facilities. Lighting systems for public facilities such as active play areas shall provide adequate illumination for the activity; however, low-intensity light fixtures and shields shall be used to minimize spillover light onto adjacent properties.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. 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?		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

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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	

DISCUSSION

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?

The State of California Department of Conservation (DOC) California Important Farmland Finder classifies the approximately 11.65 acres of the Project site as being *Prime Farmland* (California Department of Conservation, 2018), and conversion of that which may be considered a significant impact.

The City has not yet adopted a Farmland Preservation Program as described in GP PEIR MM AG-1.1. Therefore, the final section of MM AG-1.1 applies to this Project, and this Project will be required to mitigate on an individual basis as outlined below.

The Project site is designated and zoned for residential development that would have a non-agricultural use. However, because the DOC classifies the land as being Prime Farmland, the Developer will be required to provide in-kind value protection at a ratio of 1:1 for a total of 11.65 acres, by recording an agricultural conservation easement on agricultural land of equal size and classification to the land being converted to non-agricultural uses prior to obtaining a grading permit for the Project site. The land selected for the agricultural conservation easement will have a tangible relationship to the land being converted from an agricultural use and shall be in or adjacent to Fresno County. The easement will be held by the City of Fresno, comply with the requirements of California Civil Code Section 815 et. seq., and will be in a form substantially similar to the model conservation easement prepared by the California Department of Conservation(https://www.conservation.ca.gov/dlrp/grant-programs/Documents/grant/SALCP%20Model%20ACE%20Template%20(2014-2015)%20Final%2012.4.2015.pdf).

With the implementation of GP PEIR MM AG-1.1 through the requirement of an agricultural conservation easement as specified above, impacts of the Project would be *less than significant with mitigation incorporated*.

Mitigation Measures

The proposed Project shall implement and incorporate the aesthetic related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12,2022.

AG-1.1: Prior to issuance of a grading or building permit, whichever occurs first, the Developer shall complete the following measure to mitigate the loss of agricultural land at a ratio of 1:1 for the net acreage before conversion. (The net acreage calculation shall exclude existing roads and areas already developed with structures, and a plot plan shall be submitted to substantiate the net acreage calculation, along with written evidence of compliance.).

-

. Mitigation land shall meet the definition of Prime Farmland, Farmland of Statewide Importance, and/or Unique Farmland and be of similar agricultural quality or higher, as established by the California Department of Conservation. Completion of the selected measure or, with the City of Fresno Planning Director's approval, a combination of measures can occur on qualifying land within the San Joaquin Valley (San Joaquin, Stanislaus, Merced, Fresno, Madera, Kings, Tulare, or Kern County) or outside the San Joaquin Valley with written evidence that the same or equivalent crops can be produced on the mitigation land.

Developer shall provide in-kind value protection at a ratio of 1:1 for a total of 11.65 acres, by recording an agricultural conservation easement on agricultural land of equal size and classification to the land being converted to non-agricultural uses prior to obtaining a grading permit for the Project site. The land selected for the agricultural conservation easement will have a tangible relationship to the land being converted from an agricultural use and shall be in or adjacent to Fresno County. The easement will be held by the City of Fresno, comply with the requirements of California Civil Code Section 815 et. seq., and will be in a form substantially similar to the model conservation easement prepared by the California Department of Conservation(https://www.conservation.ca.gov/dlrp/grant-programs/Documents/grant/SALCP%20Model%20ACE%20Template%20(2014-2015)%20Final%2012.4.2015.pdf).

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

The Project site is not subject to a Williamson Act agricultural land conservation contract (Fresno County, 2021). The proposed Project will not affect Williamson Act contract parcels on the subject site. The site is zoned for residential uses. Therefore, the proposed Project will have *no impact* on Williamson Act contracts.

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))?

The Project site is not considered forest land timberland. Therefore, the proposed Project will not conflict with any forest land or Timberland Production or result in any loss of forest land. Therefore, the Project will have *no impact*.

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

The Project site is not considered forest land and is located within the urban bounds of the City of Fresno and is surrounded by development. Therefore, the proposed Project will not result in the loss of any forest land or result in the conversion of forest land to non-forest uses. The Project will have *no impact.*

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?

The Project site is zoned for residential use, and therefore development of a non-agricultural use was anticipated due to the adopted land use designation and zoning. The continued implementation of the approved General Plan would not result in other changes in the existing environment that would impact agricultural uses within the Planning Area. Therefore, the Project would result in *less than significant impact* on farmland or forest land involving other changes in the existing environment.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan (*e.g.*, by having potential emissions of regulated criterion pollutants which exceed the San Joaquin Valley Air Pollution Control Districts (SJVAPCD) adopted thresholds for these pollutants)?			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 (including releasing emissions that exceed quantitative thresholds for ozone precursors)?		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	

The analysis below is based on a Small Project Analysis Level Assessment (SPAL) prepared for the Project (Trinity Consultants, 2022). The SPAL is attached as Appendix A.

DISCUSSION

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

The Project site is located within the San Joaquin Valley Air Basin (SJVAB), which is regulated by the San Joaquin Valley Air Pollution Control District (SJVAPCD). This region has had chronic non-attainment of federal and State clean air standards for ozone/oxidants and particulate matter due to a combination of topography and climate. The San Joaquin Valley (Valley) is surrounded by mountain ranges, with prevailing winds carrying pollutants and pollutant precursors from urbanized areas to the north (and, in turn, contributing pollutants and precursors to downwind air basins). The Mediterranean climate of this region, with a high number of sunny days and little or no measurable precipitation for several months of the year, fosters photochemical reactions in the atmosphere, creating ozone and particulate matter. Regional factors affect the accumulation and dispersion of air pollutants within the SJVAB.

The SJVAPCD considered basin-wide cumulative impacts to air quality when developing its significance thresholds. The SJVAPCD's air quality significance thresholds represent the maximum emissions from a Project that are not expected to conflict with the SJVAPCD's air quality plans and is not expected to cause or contribute to an exceedance of the most stringent applicable federal or State ambient air quality standards. These are developed based on the ambient concentrations of the pollutant for each source. Because the Project would not exceed the air quality significance thresholds on the project level and would not otherwise conflict with the SJVAPCD's air quality plans, the cumulative emissions would not be a significant contribution to a cumulative impact.

Consistency with Air Quality Plans (AQPs)

A measure for determining if the Project is consistent with the air quality plans is if the Project would not result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. Regional air quality impacts and attainment of standards are the results of the cumulative impacts of all emission sources within the air basin. Individual projects are generally not large enough to contribute measurably to an existing violation of air quality standards.

To meet Federal Clean Air Act (CAA) requirements, the SJVAPCD has multiple air quality attainment plan (AQAP) documents, including:

- 2016 Ozone Plan
- 2007 PM10 Maintenance Plan and Request for Redesignation
- 2016 PM2.5 Plan

As discussed below, emissions of ROG, NOX, PM10, and PM2.5 associated with the construction and operation of the Project would not exceed the District's significance thresholds. As shown in impact (b) below, the Project would not result in CO hotspots that would violate CO standards. Therefore, the Project would not contribute to air quality violations.

Compliance with Applicable Control Measures

The AQP contains a number of control measures, which are enforceable requirements through the adoption of rules and regulations. A description of rules and regulations that apply to this Project is provided below.

SJVAPCD Rule 9510 – Indirect Source Review (ISR) is a control measure in the 2006 PM10 Plan that requires NOX and PM10 emission reductions from development projects in the San Joaquin Valley. The NOX emission reductions help reduce the secondary formation of PM10 in the atmosphere (primarily ammonium nitrate and ammonium sulfate) and reduce the formation of ozone. Reductions in directly emitted PM10 reduce particles such as dust, soot, and aerosols. Rule 9510 is also a control measure in the 2016 Plan for the 2008 8-Hour Ozone Standard. Developers of Projects subject to Rule 9510 must reduce emissions occurring during construction and operational phases through on-site measures or pay off-site mitigation fees. The Project is required to comply with Rule 9510.

Rule 8011 – General Requirements for 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. For projects in which construction-related activities would disturb equal to or greater than one acre of surface area, the SJVAPCD recommends that demonstration of receipt of an SJVAPCD approved Dust Control Plan or Construction Notification Form, before issuance of the first grading permit, be made a condition of approval. The Project is required to comply by preparing a Dust Control Plan or Construction Notification Form before issuance of the first grading permit.

Regulation VIII – Fugitive PM10 Prohibitions. Rules 8011-8081 are designed to reduce PM10 emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and track out, etc. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules. The Project is required to prepare a Dust Control Plan to comply with Regulation VIII.

Other control measures that apply to the Project are Rule 4641 - Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operation, which requires reductions in VOC emissions during paving, and Rule 4601 - Architectural Coatings, which limits the VOC content of all types of paints and coatings sold in the San Joaquin Valley. These measures apply at the point of sale of the asphalt and the coatings, so project compliance is ensured.

The Project would comply with all applicable SJVAPCD rules and regulations and applicable control measures of the AQP. The Project complies with this criterion and would not conflict with or obstruct the implementation of the applicable air quality attainment plan. As discussed under III. AIR QUALITY (b) and (c), the Project's emissions are less than significant for all criteria pollutants and would not result in inconsistency with the applicable air quality plan and will comply with applicable control measures of the air quality plan. Therefore, the Project is consistent with the applicable air quality plan, and impacts would be *less than significant*.

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?

Regional Emissions

Air pollutant emissions have both regional and localized effects. This analysis assesses the regional effects of the Project's criteria pollutant emissions compared to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the Project. Localized emissions from Project construction and operation are assessed under Impact c) below using concentration-based thresholds that determine if the Project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The SJVAPCD GAMAQI adopted in 2015 contains thresholds for CO, NOX, ROG, SOX, PM10, and PM2.5. Reduction of these pollutants during any future development construction activities as a result of the approved Project will be required.

Ozone is a secondary pollutant that can be formed miles from the source of emissions through reactions of ROG and NOX emissions in the presence of sunlight. Therefore, ROG and NOX are termed, ozone precursors. The Air Basin often exceeds the state and national ozone standards. Therefore, if the Project emits a substantial quantity of ozone precursors, the Project may contribute to an exceedance of the ozone standard. The Air Basin also exceeds air quality standards for PM10 and PM2.5; therefore, substantial Project emissions may contribute to an exceedance of these pollutants. The District's annual emission significance thresholds used for the Project define the substantial contribution of both operational and construction emissions as follows:

- 100 tons per year CO
- 10 tons per year NOX
- 10 tons per year ROG
- 27 tons per year SOX
- 15 tons per year PM10
- 15 tons per year PM2.5

The SJVAPCD Air Impact Assessment (AIA) applications for residential development projects include 50 or more dwelling units. Therefore, the proposed 72-unit single-family residential development is subject to District Rule 9510 (Indirect Source Review), and an AIA application is required. Upon further development of the Project, the developer will be required to reduce any project-specific criteria pollutant emissions to have a less than significant impact.

The SJVAPCD Small Project Analysis Level (SPAL) process established review parameters to determine whether a project qualifies as a "small project." A project that is found to be "less than" the established parameters, according to the SPAL review parameters, has "no possibility of exceeding criteria pollutant emissions thresholds."

As shown in Table 3-1, the proposed Project would not exceed the established SPAL thresholds for single-family units. Trips were estimated using a rate of 9.44 for single-family residences using trip generation rates from the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Edition) and the ITE Trip Generation Handbook (3rd Edition). Based on the above information, this Project qualifies for a limited air analysis applying the SPAL guidance to determine air quality impacts, and impacts would be *less than significant.*

Table 3-1
Small Project Analysis Level – Units in Residential

Land Use Category –Residential	Project Size (dwelling unit)	ATD 1-way
Single Family Threshold	155	800
Proposed Project – Single-Family	72	672
SPAL Exceeded?	**No**	**NO**

Source: (Trinity Consultants, 2022) ATD—Average Trips Daily

As shown in Table 3-2, the Project's emissions during temporary construction activities would not exceed thresholds. Therefore, construction emissions were found to be less than significant, and no further evaluation is required.

Table 3-2
Project Construction Emissions

Emissions Source	Pollutant					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
	(tons/year)					
2022 Construction Emissions	0.22	2.10	1.92	0.004	0.22	0.14
2023 Construction Emissions	1.37	1.33	1.56	0.0003	0.09	0.07
Max Construction Emissions	1.37	2.10	1.92	0.004	0.21	0.14
SJVAPCD Construction Emissions Thresholds	10	10	100	27	15	15
Is Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Operation of the Project would also create additional criteria pollutants, particularly as a result of increased mobile emissions in the project area. However, these impacts also would not exceed thresholds, as shown in Table 3-3.

Table 3-3
Total Project Operational Emissions

EmissionsSource	Pollutant					
	ROG	NOx	CO	SOx	PM10	PM2.5
	(tons/year)					
Unmitigated						
Operational Emissions	0.88	0.52	3.17	0.008	0.75	0.21
SJVAPCD Operational Emissions Thresholds	10	10	100	27	15	15
Is Threshold Exceeded Before Mitigation?	No	No	No	No	No	No
Mitigated						
Operational Emissions	0.87	0.46	2.93	0.007	0.66	0.19
SJVAPCD Operational Emissions Thresholds	10	10	100	27	15	15
Is Threshold Exceeded?	No	No	No	No	No	No

The long-term operational emissions associated with the proposed Project would be less than SJVAPCD significance threshold levels and would, therefore, not significantly impact criteria air pollutants.

The PEIR for the Fresno General Plan, MM AIR-2.1, requires applicants for new development projects to incorporate mitigation measures, where applicable, into construction plans to reduce air pollutant emissions during construction activities, such As restricting idling of construction equipment, limiting grading operations to reduce disturbed areas, encouraging the removal of vegetation only when necessary.. AIR-2.2 requires project applicants for new development projects to incorporate mitigation measures to reduce air pollutant emissions during operational activities, to the extent feasible. AIR-2.2 maximizing the use of solar energy on rooftops, the planting of trees

in landscaping, the use of light-colored roofing, the use of electric lawn mowers, high efficiency appliances and the use of low volatile organic compound (VOC) cleaning products. By implementing the mitigation measures as identified in the GP PEIR, the Project impacts would be less than significant with mitigation incorporated. Therefore, by implementing the mitigation measures identified in the GP PEIR as applicable to the Project, Project impacts are considered to be *less than significant with mitigation incorporated*.

c) Expose sensitive receptors to substantial pollutant concentrations?

See Impact III (b) above.

Sensitive Receptors

Those sensitive to air pollution include children, the elderly, and persons with pre-existing respiratory or cardiovascular illnesses. SJVAPCD considers a sensitive receptor in a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. Table 3-4 below shows the nearest sensitive receptors.

Table 3-4
Sensitive Receptors Located Less than 2 Miles from Project

Receptor	**Facility Type**	**Distance from Project in Miles**	***Direction from Project***
Virginia R. Boris Elementary	K-6	0.59	E
Tovar Residential Care	Assisted Living	0.82	NW
Roger S. Oraze Elementary	K-6	0.93	N
Temperance-Kutner Elementary	K-6	0.95	S
Medina Home Care	Assisted Living	1.31	NW
Janet L. Young Elementary	K-6	1.35	NE
Miramonte Elementary	K-6	1.4	NW
Laverne Place	Assisted Living	1.56	N
Brighten Academy Preschool	K	1.64	NW
Anjaleoni Enterprises Inc	Assisted Living	1.66	N
Christina's Care Home	Assisted Living	1.81	NW
Golden Cares Home	Assisted Living	1.86	NW
Gettysburg Elementary	K-6	1.9	N
Francher Creek Elementary	K-6	1.91	SW
Clovis Christian School	K-12	1.96	NE
California Armenian	Assisted Living	1.97	S

Source: ***(Trinity Consultants, 2022)***

Based on the proposed operational emissions and activity types, the proposed Project will have a *less than significant impact* on sensitive receptors.

Off-site Sensitive Receptors

Impacts to receptors located outside the Project boundaries would occur primarily during Project construction. Construction emissions commence in the year 2022 and continue until Project buildout. Construction activities are expected to occur over several years as the subdivision is gradually built out; however, most emissions are expected to occur during the initial site preparation and grading activities and, to a lesser extent, during ground-up construction. For criteria pollutants, impacts to receptors located outside of the Project are based on emissions during the highest emissions during any construction year. Therefore, this impact would be *less than significant*.

SJVAPCD identifies some common types of facilities that have been known to produce odors in the SJVAB, such as wastewater treatment facilities, sanitary landfills, transfer stations, composting facilities, petroleum refineries, asphalt batch plants, chemical manufacturing plants, fiberglass manufacturing, paint/coating operations, food processing facilities, feed lot/dairy, and rendering plants (SJVAPCD, 2015). These can be used as a screening tool to qualitatively assess a Project's potential to adversely affect area receptors.

Toxic Air Contaminant (TAC) Impacts

The proposed Project would result in emissions of Hazardous Air Pollutants (HAPs) during construction and would be located near existing residents, which may be a significant impact; therefore, an assessment of the potential risk to the population attributable to emissions of hazardous air pollutants from the proposed Project is required. Operational emissions from the residential community would not generate HAP emissions.

The most recent version of EPA's AMS/EPA Regulatory Model - AERMOD was used to predict the dispersion of emissions from the proposed Project. Diesel combustion emissions from diesel onsite construction equipment were modeled as an area source for onsite construction activity on the property. Diesel particulate matter was calculated using CalEEMod for onsite construction equipment.

SJVAPCD has set the level of significance for carcinogenic risk at twenty in one million, which is understood as the possibility of causing twenty additional cancer cases in a population of one million people. The level of significance for chronic non-cancer risk is a hazard index of 1.0. All receptors were modeled with a two-year

exposure for the construction activities. The carcinogenic risk and the health hazard index (HI) for chronic non-cancer risk at the point of maximum impact (PMI) do not exceed the significance levels of twenty in one million (20E-06) and 1.0, respectively for the proposed Project. The PMIs are identified by receptor location and risk and are provided in Table 3-5 below.

Table 3-5
Potential Maximum Health Risk Impacts

	PMI Value
Excess Cancer Risk	1.35E-05
Chronic Hazard Index	7.89E-03

(Trinity Consultants, 2022)

As shown in Table 3-5, the maximum cancer risk for the proposed Project is 1.35E-05. The maximum chronic non-cancer hazard index for the proposed Project is 7.89E-03. Since the PMI remained below the significance threshold for cancer and chronic risk, this Project would not have an adverse effect on any of the surrounding communities.

The potential health risk attributable to the proposed Project is determined to be less than significant based on the following conclusions:

1. Potential carcinogenic risk from the proposed Project is below the significance level of twenty in a million at each of the modeled receptors.
2. The hazard index for the potential chronic non-cancer risk from the proposed Project is below the significance level of 1.0 at each of the modeled receptors.
3. The hazard index for the potential acute non-cancer risk was not calculated since there is no acute risk associated with DPM emission; therefore, the proposed Project is considered below the significance level.

The proposed Project will implement and incorporate, as applicable, the air quality-related mitigation measures as identified in the City of Fresno PEIR (AIR-2.1 and AIR 2.2). Therefore, impacts are considered to be *less than significant with mitigation incorporated*.

Mitigation Measures
The proposed Project shall implement and incorporate the aesthetic related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12, 2022.

AIR-2.1: The proposed Project shall implement and incorporate the air quality-related mitigation measures as identified in the attached Project Specific Mitigation Monitoring AIR-2.1: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating potential project construction phase-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology for assessing construction impacts. If construction-related air pollutants are determined to have the potential to exceed the SJVAPCD adopted threshold of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures into construction plans to reduce air pollutant emissions during construction activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce construction emissions include but are not limited to:

- Install temporary construction power supply meters onsite and use these to provide power to electric power tools whenever feasible. If temporary electric power is available on site, forbid the use of portable gasoline- or diesel-fueled electric generators.
- Use of diesel oxidation catalysts and/or catalyzed diesel particulate traps on diesel equipment as feasible.
- Maintain equipment according to manufacturers' specifications.
- Restrict idling of equipment and trucks to a maximum of five minutes (per California Air Resources Board [CARB] regulation).
- Phase grading operations to reduce disturbed areas and times of exposure.
- Avoid excavation and grading during wet weather.
- Limit onsite construction routes and stabilize construction entrance(s).
- Remove existing vegetation only when absolutely necessary.
- Sweep up spilled dry materials (e.g., cement, mortar, or dirt track-out) immediately. Never attempt to wash them away with water. Use only minimal water for dust control.
- Store stockpiled materials and wastes under a temporary roof or secured plastic sheeting or tarp.

AIR-2.2: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating potential project operation-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology in assessing air quality impacts. If operation-related air pollutants are determined to have the potential to exceed the SJVAPCD-adopted thresholds of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures to reduce air pollutant emissions during operational activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce long-term emissions include but are not limited to:

- For site-specific development that requires refrigerated vehicles, the construction documents shall demonstrate an adequate number of electrical service connections at loading docks for plugging in the anticipated number of refrigerated trailers to reduce idling time and emissions.
- Applicants for manufacturing and light industrial uses shall consider energy storage (i.e., battery) and combined heat and power (CHP, also known as cogeneration) in appropriate applications to optimize renewable energy generation systems and avoid peak energy use.
- Site-specific developments with truck delivery and loading areas and truck parking spaces shall include signage as a reminder to limit the idling of vehicles while parked for loading/unloading in accordance with CARB Rule 2845 (13 California Code of Regulations [CCR] Chapter 10, Section 2485).
- Require that 240-volt electrical outlets or Level 3 chargers be installed in parking lots that would enable charging of neighborhood electric vehicles (NEVs) and/or battery-powered vehicles.
- Maximize use of solar energy, including solar panels; installing the maximum possible number of solar energy arrays on building roofs throughout the city to generate solar energy.
- Maximize the planting of trees in landscaping and parking lots.
- Use light-colored paving and roofing materials.
- Require use of electric or alternatively fueled street-sweepers with HEPA filters.
- Require use of electric lawnmowers and leaf blowers.
- Utilize only Energy Star heating, cooling, and lighting devices and appliances.
    - Use of water-based or low volatile organic compound (VOC) cleaning products.

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

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc., warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

The proposed Project is a residential community located near other residential neighborhoods and agricultural land uses. The Project will not generate odorous emissions given the nature or characteristics of the Project. The intensity of an odor source's operations and its proximity to sensitive receptors influence the potential significance of odor emissions.

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor. According to the CBIA v.

BAAQMD ruling (Alameda Superior Court Case No. RGI0548693), impacts of existing sources of odors on the Project are not subject to CEQA review (California Building Association v Bay Area Air Quality Management District, 2015). Therefore, the analysis to determine if the Project would locate new sensitive receptors near an existing source of odor is provided for information only. The SJVAPCD has determined the common land use types that are known to produce odors in the Air Basin.

Project as a Generator

During construction, the various diesel-powered vehicles and equipment in use onsite would create localized odors. These odors would be temporary and would not likely be noticeable for extended periods of time beyond the Project's site boundaries. The Project will not generate odorous emissions given the nature or characteristics of the Project. The intensity of an odor source's operations and its proximity to sensitive receptors influence the potential significance of odor emissions. The SJVAPCD has identified some common types of facilities that have been known to produce odors in the SJVAB. The types of facilities that are known to produce odors are discussed above, along with a reasonable distance from the source within which the degree of odors could possibly be significant. Therefore, impacts are considered to be *less than significant*.

Project as a Receiver

Land uses that are typically identified as sources of objectionable odors include landfills, transfer stations, sewage treatment plants, wastewater pump stations, composting facilities, and rendering plants. There are no sites with these uses within 2 miles of the site, therefore, it is not expected that the Project will be a receiver of odors. Therefore, impacts would be *less than significant.*

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – 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 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 federally protected wetlands as defined by Section 404 of the Clean Water Act (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	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
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?				X

The analysis below is based on a Biological Resources Evaluation (BRE) prepared for the Project (QK, 2022a), included in Appendix B.

DISCUSSION

A biological reconnaissance survey and database review were completed by qualified biologists to characterize the existing conditions onsite and determine the potential for special-status plant and wildlife species and other sensitive biological resources to occur onsite and be impacted by the Project. The Project site and a 250-foot buffer (survey area), when feasible, were surveyed.

Protocol surveys for specific special-status wildlife species were not conducted. Locational data were documented using the Esri ArcGIS Collector application installed on an iPad. Photographs were taken to document the existing landscape and any sensitive biological resources. Plant and wildlife species and current site conditions were recorded while conducting the survey.

General Site Conditions

The Project site is on relatively flat, level terrain with minor variations in elevation. The average elevation of the Project site is approximately 340 feet above mean sea level. The Project site has been previously disturbed by historical agriculture and maintenance activities.

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?

The Project site and the adjacent properties are located within an area of predominant urban development and have been repeatedly degraded from historical agricultural operations and continual disking. The site supports mostly non-native grasses and other ruderal or ornamental species and is predominately surrounded by residential and commercial development.

The literature and database search indicated that there is potential for several special-status species to be present on or in the vicinity of the Project site. An evaluation of each of the potential special-status species, which included habitat requirements, the likelihood of required habitat to occur within the Project vicinity, and a comparison to the CNDDB records, was conducted. The results of this evaluation concluded that 16 plant species and two wildlife species with special status have a reasonable potential to occur on or near the Project site.

Special-Status Species

Special-Status Plants Species

No special-status plant species were observed within the survey area. Although the field survey did not coincide with the optimum blooming survey period for all sensitive plant species, there is no habitat present on the Project site or within the survey area that would support special-status plant species. The Project site is degraded from historical land uses, mainly for agricultural operations and continual disking, and the adjacent lands have been equally disturbed for agricultural and residential uses.

Special-Status Wildlife Species

No special-status wildlife species or their sign were observed within the survey area. The Project site is highly disturbed and contains no habitat that would support most of the special-status wildlife species.

Some special-status wildlife species could be present on and near the Project from time to time. The available habitat only marginally fulfills the denning and foraging habitat requirements of the San Joaquin kit fox and American badger. The potential for San Joaquin kit fox and American badger to occur on the Project site, even as transients, is unlikely because the Project has a very limited prey base, has no travel pathways or connectivity to adjacent natural habitat, and is surrounded by urban development. No sign of these species was observed during the site survey. Similarly, Swainson's hawks are unlikely to utilize the Project site for foraging because of the tall cover of vegetation, limited prey base, and lack of suitable nearby nesting trees. There are suitably large nesting trees in the vicinity of the Project that could be used by nesting Swainson's hawk, but most are too distant from the Project site to negatively affect the nesting behavior of nesting Swainson's hawks. If Swainson's hawks are actively nesting in the vicinity of the Project during Project activities, Project

activities could interfere with normal breeding behaviors, which could discourage breeding or lead to nest failure or abandonment.

The San Joaquin kit fox is unlikely to occur on the Project site. The nearest CNDDB occurrence for San Joaquin kit fox is mapped in Sanger, approximately 7.7 miles southeast of the Project site, where an individual was observed sometime in the 1980s (EONDX 70606). The Project site consists mainly of overgrown wild radish, with residential and commercial development in the northwest corner and in the surrounding survey buffer. No San Joaquin kit fox or diagnostic signs of the species (e.g., tracks, dens, scat, prey remains) were found during the field survey, and there is a very limited prey base. Surrounding land use and habitat conditions make it unlikely that the San Joaquin kit fox would be present other than as a transient forager. The American badger (*Taxidea taxus*) has similar habitat requirements to the San Joaquin kit fox and also is unlikely to occur within the BSA other than as a transient. The nearest American badger CNDDB occurrence is approximately 1.5 miles northwest of the Project from 1987 (EONDX 56616). Project activities would be very unlikely to affect these species.

The Swainson's hawk is unlikely to occur on the Project. The nearest Swainson's hawk CNDDB occurrence is from 1956 and is only approximately mapped as "near Fresno" (EONDX 91594). The next nearest Swainson's hawk CNDDB occurrence is from 2016 and approximately 3.4 miles southwest of the Project site in an active nest located in a pasture (EONDX 106840). Although there is limited foraging habit on the Project site, there are no suitable nesting trees or structures in the immediate vicinity, and the disturbances from human activity in the area further limit the likelihood of nesting Swainson's hawks. California ground squirrels were observed onsite, so there is some potential for the Swainson's hawk to be present from time to time as a transient forager.

The Swainson's hawk (*Buteo swainsoni*) is unlikely to nest on the Project site. The nearest Swainson's hawk CNDDB occurrence is from 1956 and is only approximately mapped as "near Fresno" (EONDX 91594). The next nearest Swainson's hawk CNDDB occurrence is from 2016 and approximately 8 miles southwest of the Project site, documenting an active nest located in a non-native grassland pasture (EONDX 106840). There is very limited foraging habitat for Swainson's hawk within the BSA and only marginally suitable trees for nesting, but there are suitably large nesting trees within 0.5 miles of the Project site, but the species could nest in the vicinity of the Project.

It was concluded that two special-status species, San Joaquin kit fox and American badger, could potentially be present at the Project site, but their potential for occurrence, even as transients, is very unlikely. Project activities would have no effect on these species. No potential nests of the Swainson's hawk were present on the Project site or within the survey area. No special-status wildlife species or diagnostic signs of special-status wildlife species were observed on the Project site, and the degraded condition of the site would tend to preclude those species from occurring.

The Project is anticipated to have no impact to special-status wildlife species. However, the Project must comply with the biological Mitigation Measures of GP PEIR BIO-1.1, which includes avoidance and minimization measures for special-status species, BIO 1.2 for the avoidance of direct or incidental take of any State or federally listed species, BIO 1.4,regarding construction during nesting season and related precautions, and BIO 2.1 which requires a pre-construction biological survey prior to construction to determine if the Project site supports any special-status species. These measures will reduce Project impacts to biological resources to a less than significant level. Therefore, impacts are considered to be *less than significant with mitigation incorporated*.

Mitigation Measures

The proposed Project shall implement and incorporate the biological resources related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12, 2022.

BIO-1.1: Construction of a proposed project shall avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within a potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction to determine if the habitat supports any special-status species. If a special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible. Specific mitigation measures for direct or incidental impacts to special-status species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.

BIO-1.2: Direct or incidental take of any State or federally listed species shall be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the CDFW 2081 and USFWS Section 7 or Section 10 permitting processes shall take place prior to any action that may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to special-status species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.
BIO-1.4: Proposed projects within the Planning Area should avoid, if possible, construction within the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA) if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey shall

be conducted by a qualified biologist to determine if any nesting birds or nesting activity is observed on or within 500 feet of a project site. If an active nest is observed during the survey, a biological monitor shall be onsite to ensure that no proposed project activities would impact the active nest. A suitable buffer shall be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor. Prior to the commencement of grading activities and issuance of any building permits, the Director of the City of Fresno Planning and Development Department, or designee, shall verify that all proposed project grading and construction plans include specific documentation regarding the requirements of the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code Section 3503, that preconstruction surveys have been completed and the results reviewed by staff, and that the appropriate buffers (if needed) are noted on the plans and established in the field. Specific mitigation measures for direct or incidental impacts to avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA) shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.

BIO-2.1: A pre-construction clearance survey, following current CDFW protocols, shall be conducted by a qualified biologist to determine if a proposed project will result in the removal or impact to any riparian habitat and/or a special-status natural community with the potential to occur in the Planning Area, compensatory habitat-based mitigation shall be required to reduce project impacts. Compensatory mitigation must involve the preservation or restoration or the purchase of off-site mitigation credits for impacts to riparian habitat and/or a special-status natural community. Mitigation must be conducted in-kind or within an approved mitigation bank in the region. The specific mitigation ratio for habitat-based mitigation shall be determined through consultation with the appropriate agency (i.e., CDFW or USFWS) on a case-by-case basis. The project applicant/developer for a proposed project shall develop and implement appropriate mitigation regarding impacts on their respective jurisdiction

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?

Natural communities of special concern are those that are of limited distribution, distinguished by significant biological diversity, home to special-status plant and animal species, of importance in maintaining water quality or sustaining flows, etc. Examples of natural communities of special concern in the San Joaquin Valley could include open, ruderal/non-native grassland habitat, which is infrequently disturbed, vernal pools, and various types of riparian forest. No natural communities of special concern were identified on the subject site.

There is no riparian habitat or any other sensitive natural communities identified by CDFW or the USFWS located on the Project site. Therefore, the Project will have *no impact*.

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?

The United States Army Corps of Engineers (USACE) has regulatory authority over the Clean Water Act (CWA), as provided for by the EPA. The USACE has established specific criteria for the determination of wetlands based upon the presence of wetland hydrology, hydric soils, and hydrophilic vegetation. There are no federally protected wetlands or vernal pools that occur within the Project.

No State or federally protected wetlands or other water features are located on the subject site. The National Hydrography database (NHD) and National Wetlands Inventory (NWI) identify two water features, both unnamed canals, in the vicinity of the Project site. One of the canals is shown on the NHD and NWI as north-south traversing and crossing through the eastern boundary of the Project site approximately 30 feet west of North Armstrong Avenue. This feature was not present during the site survey and is not visible on any available historical aerial imagery of the Project site. The second canal is also north-south traversing and is located outside the BSA, approximately 300 feet west of the Project site. This canal is fed by waters from the Gould Canal approximately 3.3 miles east of the Project site and flows to the Mill Ditch Canal, which is approximately 0.4 miles south of the Project site. This feature is visible on aerial imagery and appears to be a small agricultural canal with a compacted earthen channel. As this feature lies outside of the Project parcel, it would not be impacted by Project-related activities. Therefore, impacts to wetlands or water features would be *less than significant*.

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?

Wildlife migratory corridors are described as a narrow stretch of land that connects two open pieces of habitat that would otherwise be unconnected. These routes provide shelter and sufficient food supplies to support wildlife species during migration. Movement corridors generally consist of riparian, woodlands, or forested habitats that span contiguous acres of undisturbed habitat and are important elements of resident species' home ranges.

The proposed Project would not interfere 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. Therefore, the Project's impacts would be *less than significant*

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

Although the proposed Project is subject to provisions of the City's Municipal Code regarding trees on public property (Article 3 of Section 13 of the City of Fresno Municipal Code), the proposed Project does not conflict with any of the existing ordinances. As a result, no impact would occur related to local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance In addition, the Project will comply with the policies and goals of the General Plan pertaining to protecting biological resources. Therefore, the proposed Project would have *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?

The Project is not located within any Natural Community Conservation Plan or any other local, regional, or State Conservation Plan. The Project site is located within an area covered by the PG&E San Joaquin Valley Operation and Maintenance Habitat Conservation Plan (HCP). That HCP only applies to maintenance and operations of PG&E facilities and does not apply to this Project. The subject site nor the immediate vicinity occur in any other habitat conservation plans or natural community conservation plans pertaining to natural resources within the region. Therefore, the Project will have *no impact*.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
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		

DISCUSSION

The analyses presented in this section are based on a Cultural Resources Technical Memorandum prepared for the Project (QK, 2022b) included in Appendix C.

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

A cultural resources records search (#22-101) was conducted at the Southern San Joaquin Valley Information Center (IC), CSU Bakersfield, to determine whether the proposed Project would impact cultural or historical resources. A Sacred Lands File request was also submitted to the Native American Heritage Commission, and a response indicates negative results. The records search indicated that the subject property had previously been surveyed for cultural resources. No cultural resources were identified on the property as a result of that study, and it was recommended that no further cultural resource work be warranted (QK, 2022b).

There are no structures that exist within the Project area that are listed in the National or Local Register of Historic Places, and the subject site is not within a designated historic district. There is no evidence that cultural resources of any type (including historical or archaeological features) exist on the subject property. Past record searches for the region have not revealed the likelihood of cultural resources on the subject property or in its immediate vicinity. Therefore, it is not expected that the proposed Project may impact cultural resources. It should be noted; however, that

lack of surface evidence of historical resources does not preclude the subsurface existence of archaeological resources. During excavation activities, there is always the potential to discover historical resources. In the event historical resources are found, construction will halt, and a qualified historical resources specialist will be contacted and will make recommendations to the City. Implementation of the Fresno General Plan GP PEIR Mitigation Measure CUL-1.1 will result in a *less than significant impact with mitigation incorporated*.

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

See Response V (a) above. There are no known archaeological resources that exist within the Project site. Nevertheless, there is some possibility that a buried site may exist in the area and be obscured by vegetation, fill, or other historic activities, leaving no surface evidence, which may be a significant impact. Therefore, with implementation of the City of Fresno PEIR Mitigation Measure CUL-1.1 and CUL-1.2, impacts are considered to be *less than significant with mitigation incorporated.*

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

Although cultural resources are not anticipated onsite, like most projects in the State, the possibility exists that these resources could be found during construction, which may be a significant impact. Therefore, mitigation would be required to reduce this impact to a less than significant level. Due to the ground-disturbing activities that will occur as a result of the Project, the measures within the GP PEIR Mitigation Monitoring and Reporting Program to address archaeological resources and human remains will be employed to guarantee that should archaeological and/or historic artifacts be encountered during Project excavations, then work shall stop immediately; and, that qualified professionals in the respective field are contacted and consulted in order to ensure that the activities of the proposed Project will not involve physical demolition, destruction, relocation, or alteration of historical or archaeological resources. In conclusion, with the GP PEIR Mitigation Measures CUL-1.1, CUL 1.2, CUL-2, and CUL-3 incorporated, the proposed Project will not result in any cultural resource impacts. Therefore, impacts would be *less than significant with mitigation incorporated.*

Mitigation Measures

The proposed Project shall implement and incorporate the cultural resources related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated CUL-1.1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find, and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the

discovered resources, including but not limited to the excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance. 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 Lead Agency. Appropriate measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any historical 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.

CUL-1.2: Prior to approval of any discretionary project that could result in an adverse change to a potential historic and/or cultural resource, the City shall require a site-specific evaluation of historic and/or cultural resources by a professional who meets the Secretary of Interior's Qualifications. The evaluation shall provide recommendations to mitigate potential impacts to historic and/or cultural resources and shall be approved by the Director of Planning and Development.

CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed.

- If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find, and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City 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 CEQA Guidelines Section 15064.5. If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any prehistoric archaeological 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.

- If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified archaeologist. If additional prehistoric archaeological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.

CUL-3: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall, within 24 hours, notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains.

Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY – 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?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

DISCUSSION

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

The proposed Project would involve the use of energy during construction and operation. Energy use during the construction phase would be in the form of fuel consumption (e.g., gasoline and diesel fuel) to operate heavy equipment, light-duty vehicles, and machinery. Long-term operation of the proposed includes electricity and natural gas service to power internal and exterior building lighting and heating and cooling systems. In addition, the increase in vehicle trips associated with the Project would increase fuel consumption within the City.

Energy demand during the construction phase would result from the transportation of materials, construction equipment, and employee vehicle trips. Construction equipment includes rubber-tired dozers, tractors, loaders, backhoes, excavators, graders, scrapers, cranes, forklifts, generator sets, welders, pavers, paving equipment, rollers, and air compressors. The Project would comply with the SJVAPCD requirements regarding the use of fuel-efficient vehicles.

Energy-saving strategies will be implemented where possible to further reduce the Project's energy consumption during the construction phase. Strategies being implemented include those recommended by the California Air Resources Board (CARB) that may reduce both the Project's energy consumption, including diesel anti-idling measures, light-duty vehicle technology, usage of alternative fuels such as biodiesel blends and ethanol, and heavy-duty vehicle design measures to reduce

energy consumption. Additionally, as outlined in the SJVAPCD's GAMAQI, the Project includes recommendations to reduce energy consumption by shutting down equipment when not in use for extended periods, limiting the usage of construction equipment to eight cumulative hours per day, usage of electric equipment for construction whenever possible in lieu of diesel or gasoline-powered equipment, and encouragement of employees to carpool to retail establishments or to remain onsite during lunch breaks.

The amount of energy used at the Project site would directly correlate to the size of the proposed buildings, the energy consumption of associated appliances and technology, and outdoor lighting. Other major sources of proposed Project energy consumption include fuel used by vehicle trips generated during Project construction and operation and the fuel used by off-road construction vehicles during construction. The proposed Project will be consistent with the City's Greenhouse Gas Reduction Plan related to energy conservation and reduction measures, as shown in Table 6-1.

Table 6-1
City of Fresno Greenhouse Gas Reduction Plan

Objective RC-8 Reduce the consumption of non-renewable energy resources by requiring and encouraging conservation measures and the use of alternative energy sources**.**	**Consistent.** The Project will comply with Title 24 Energy Efficiency Standards and CalGreen Code requirements for solar-ready roofs, electric vehicle charging, and water conservation. The 2019 Building Efficiency Standards are the current regulations and went into effect on January 1, 2020. One of the notable changes in the 2019 Title 24 Standards includes the solar photovoltaic systems requirement for new low-rise residential homes.
Policy RC-8-a Existing Standards and Programs. Continue existing beneficial energy conservation programs, including adhering to the California Energy Code in new construction and major renovations.	**Consistent.** The Project will comply with all applicable energy standards.
Policy RC-8-b Energy Reduction Targets. Strive to reduce per capita residential electricity use to 1,800 kWh per year and nonresidential electricity use to 2,700 kWh per year per capita by developing and implementing incentives, design, and operation standards, promoting alternative energy sources, and cost-effective savings.	**Consistent.** The Project will comply with the Title 24 energy standards in effect at the time building permits are processed for approval.

Source: City of Fresno Greenhouse Gas Reduction Plan 2021.

There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy-intensive than is used for comparable activities. All construction equipment shall conform to current emissions standards and related fuel efficiencies. In particular, construction and operations of

the Project would be subject to applicable CARB regulations (Airborne Toxic Control Measure), California Code of Regulations (Title 13, Motor Vehicles), and Title 24 standards that include a broad set of energy conservation requirements (e.g., Lighting Power Density requirements). In addition, the Project would follow Best Management Practices (BMPs) for water conservation, as warranted and appropriate. Enforcement of these regulations, requirements and practices would thereby minimize or eliminate unnecessary or wasteful consumption of energy. In addition, the Project would be served by PG&E and would not require extensions of energy infrastructure or new energy supplies. For these reasons, the Project would have a less than significant impact.

The proposed Project would use energy resources for the operation of Project buildings (electricity and natural gas), for on-road vehicle trips (e.g., gasoline and diesel fuel) generated by the proposed Project, and for off-road construction activities associated with the proposed Project (e.g., diesel fuel). Each of these activities would require the use of energy resources. The proposed Project would be responsible for conserving energy to the extent feasible and relies heavily on reducing per capita energy consumption to achieve this goal, including through Statewide and local measures. Therefore, impacts would be *less than significant.*

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

The proposed Project would be in compliance with all applicable federal, State, and local regulations regulating energy usage, as shown in Table 6-1. The Project will comply with Title 24 Energy Efficiency Standards and CalGreen Code requirements for solar-ready roofs, electric vehicle charging, and water conservation. The Project also includes the installation of solar panels on each home to offset the use of electricity that would be generated by non-renewable energy sources such as coal-fired power plants.

PG&E is responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the Statewide Renewable Portfolio Standard (RPS) to increase the proportion of renewable energy (e.g., solar and wind) within its energy portfolio. PG&E is expected to achieve at least 50% renewable energy by 2030 and 100% by 2045.

Other Statewide measures, including those intended to improve the energy efficiency of the Statewide passenger and heavy-duty truck vehicle fleet (e.g., the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time.

As a result, the proposed Project would not result in any significant adverse impacts related to Project energy requirements, energy use inefficiencies, and/or the energy intensiveness of materials by the amount and fuel type for each stage of the Project, including construction, operations, maintenance, and/or removal. PG&E, the electricity and natural gas provider to the site, maintains sufficient capacity to serve

the proposed Project. The proposed Project would comply with all existing energy standards and would not result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not be expected to cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the thresholds as described by Appendix F of the CEQA Guidelines. In conclusion, energy impacts would be considered *less than significant*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – 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.			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 offsite 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	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water 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 unique geologic feature?		X		

The following analysis is based in part on the Geotechnical Engineering Investigation (Krazan & Associates, Inc., 2022) prepared for the Project, which is included in Appendix D.

DISCUSSION

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.

Fresno has no known active earthquake faults and is not in any Alquist-Priolo Special Studies Zones. The immediate Fresno area has extremely low seismic activity levels, although shaking may be felt from earthquakes whose epicenters lie to the east, west, and south. Known major faults are over 50 miles distant and include the San Andreas Fault, Coalinga area blind thrust fault(s), and the Long Valley, Owens Valley, and White Wolf/Tehachapi fault systems. The most serious threat to Fresno from a major earthquake in the eastern Sierra would be flooding that could be caused by damage to dams on the upper reaches of the San Joaquin River.

Fresno is classified by the State as being in a moderate seismic risk zone, Category “C” or “D,” depending on the soils underlying the specific location being categorized and that location’s proximity to the nearest known fault lines. All new structures are required to conform to current seismic protection standards in the California Building Code. No adverse environmental effects related to seismology or known fault lines are expected as a result of this Project.

Further, according to the Fault Rupture Zones Map prepared by the California Department of Conservation in 2018, the GP PEIR Planning Area is not located within a Fault-Rupture Hazard Area. Moreover, no active faults have been identified within the Planning Area.

Because no active faults occur within the Planning Area, impacts associated with fault rupture would be *less than significant*.

ii. Strong seismic ground shaking?

According to the Fresno County Multi-Hazard Mitigation Plan, the Project site is located in an area of relatively low seismic activity. However, the GP PEIR indicates that projects within the Planning Area would be designed to withstand strong ground shaking because all built projects are required to comply with the California Building Code (CBC) to minimize the potential effects of ground shaking and other seismic activity. CBC covers many aspects of building design and construction as a guide to protect public health and safety. To reduce ground-shaking impacts, the approved General Plan also includes Objective NS-2 and policies NS-2-a through NS-2-d, and the City of Fresno Municipal Code includes Section 11-101.

With the implementation of the above-referenced objective and policies as well as adherence to the Municipal Code and other applicable regulations, development in accordance with the approved General Plan would reduce potential seismic ground shaking impacts to a less-than-significant level. Compliance with local and State building codes would ensure Project structures and personnel present during the construction would not be exposed to substantial adverse effects, including the risk of loss, injury, or death resulting from strong seismic ground shaking. Therefore, implementation of these building code requirements and local agency enforcement would reduce impacts from ground shaking to *less than significant* levels.

iii. Seismic-related ground failure, including liquefaction?

No specific countywide assessment of liquefaction has been performed; however, the Fresno County Multi-Hazard Mitigation Plan identifies the risk of liquefaction within the county as low because the soil types are unsuitable for liquefaction. The Project site is within an area of low seismic activity, and the groundwater in the Project area occurs below 60 feet, and the soils associated with the Project site are not suitable for liquefaction (Krazan & Associates, Inc., 2022), Impacts would be *less than significant*.

iv. Landslides?

Landslides include rockfalls, deep slope failure, and shallow slope failure. Factors such as the geological conditions, drainage, slope, vegetation, and others directly affect the potential for landslides. One of the most common causes of landslides is construction activity that is associated with road building (i.e., cut and fill). The Project site is relatively flat; therefore, the potential for a landslide in the Project site is

essentially non-existent. Because the Project is within an area with relatively flat topography, the Project will not have any environmental impacts relating to landslides. Therefore, impacts would be *less than significant.*

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

Minimal soil will be removed from the Project site during construction, as the site is relatively flat and has been previously impacted by grading from previous site use. Development of the Project site 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 (i.e., General Permit Order No. 2012-0006-DWQ). 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. These BMPs are developed to prevent significant impacts related to erosion from construction. Additionally, because these soils have been disturbed, it is recommended that the surface soils be recompacted to stabilize the surface soils and locate any unsuitable or pliant areas. Because Project impacts related to erosion would be temporary and limited to construction and required BMPs would prevent significant impacts related to erosion, the impacts will be *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 offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

Soil conditions were analyzed and determined to be disturbed, have low strength characteristics, and be highly compressible when saturated. As such, the soils are recommended to be recompacted. Following these recommendations, the site soils would be considered stable in that there is no potential for on or offsite landslides, lateral spreading, subsidence, or collapse. As discussed in Impact VII. Geology and Soils (a-iii) Soils, the Project site soils have a low overall potential for significant liquefaction to occur at the site. All structures would be subject to all IBC and CBC earthquake construction standards, including those relating to soil characteristics. Development of the property requires compliance with grading and drainage standards of the City of Fresno. Therefore, there would *be 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?

Expansive soils contain large amounts of clay, which absorb water and cause the soil to increase in volume. Conversely, the surface soils on the site have a loose consistency silty sand with clay, and clayey sand was encountered within portions of the site. The clayey soil appeared to have a low to moderate swell potential. The estimated swell pressures of the clayey soils may cause minor movement affecting slabs and possible stucco or similar brittle exterior finishes. The onsite silty sand with trace clay soils appears to be suitable as fill. (Krazan & Associates, Inc., 2022). The proposed Project would not result in any expansive soils environmental impacts beyond those analyzed in GP PEIR. In conclusion, the Project would have a *less than significant impact*.

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?

The proposed Project would not include the use of septic tanks or any other alternative wastewater disposal systems. The dwelling units will be required to tie into the existing sewer services. Therefore, there would be *no impact*.

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

There are no known paleontological resources or unique geologic features within the Project site. Nevertheless, previously unknown paleontological resources could be disturbed during Project construction, which would be a significant impact. Therefore, due to the ground-disturbing activities that will occur as a result of the Project, the measures within the GP PEIR for the Fresno General Plan, PEIR Mitigation Monitoring and Reporting Program to address paleontological resources will be employed to guarantee that should animal fossil material be encountered during Project excavations, then work shall stop immediately; and, that qualified professionals in the respective field are contacted and consulted in order to ensure that the activities of the proposed Project will not involve physical demolition, destruction, relocation, or alteration of paleontological resources. Mitigation Measure GEO-6.1 will reduce the impacts to paleontological resources to a *less than significant impact with mitigation incorporated.*

Mitigation Measures

The proposed Project shall implement and incorporate the paleontological resources related mitigation measure as identified in the attached Project Specific Mitigation Checklist dated XX XX, XXXX.

GEO-6.1: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for unique

paleontological/geological resources shall be conducted. The following procedures shall be followed:

- If unique paleontological/geological resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that unique paleontological/geological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find, and a qualified paleontologist shall be consulted to determine whether the resource requires further study. The qualified paleontologist shall make recommendations to the City 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. If the resources are determined to be significant, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any paleontological/geological resources 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.
- If unique paleontological/geological resources are found during the field survey or literature review, the resources shall be inventoried and evaluated for significance. If the resources are found to be significant, mitigation measures shall be identified by the qualified paleontologist. Similar to the above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include a paleontological monitor. The monitoring period shall be determined by the qualified paleontologist. If additional paleontological/geological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
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	

DISCUSSION

Analysis of Greenhouse Gases is based on the Small Project Analysis Level Assessment (SPAL) prepared for the Project (Trinity Consultants, 2022), which is included in Appendix A of this document and the Greenhouse Gas Project Checklist, which is included as Appendix G

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

Although construction of the proposed project would result in temporary emissions of GHGs, the Project as a whole is not expected to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. The Project's greenhouse gas (GHG) emissions are primarily from mobile source activities and are shown in Table 8-1.

Table 8-1
Estimated Annual Greenhouse Gas Emissions

	CO_2 Emissions metric tons	CH_4 Emissions metric tons	N_2O Emissions metric tons	CO_2e Emissions metric tons
2023 Project Operations	702.07	1.09	0.0355	739.93
2005 BAU	1,162.97	1.19	0.1169	1,227.44
BAU less Project emissions				39.7%

The current inventory and forecast for GHG emissions in the California Air Resources Board's 2017 Climate Change Scoping Plan. The 2017 Climate Change Scoping Plan also indicates that GHG emission goal for 2030 is 260 million metric tons of CO2e (CARB, 2017). It is widely understood that climate change is a "global" issue and, as such, GHG emissions are a cumulative problem and can only be evaluated as such.

The amount of CO2 that would be generated by the Project is so small in relation to the California CO2 equivalent estimates for 2020 (596 million metric tons CO2e) that it's not possible for the contribution of the project to be cumulatively considerable. Additionally, the Project's GHG emissions are less than the 2005 business as usual emissions for the Project by 487.51 metric tons CO2e, which is a 39.7% reduction. Therefore, the Project would not generate a cumulatively considerable GHG impact, nor would it conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs. The Project will also not conflict with any elements of the California Air Resources Board's 2017 Climate Change Scoping Plan. Therefore, this potential impact is *less than significant*.

The General Plan and GP PEIR rely upon the Recirculated Greenhouse Gas Reduction Plan Update (2021) that provides a comprehensive assessment of the benefits of city policies and proposed code changes, existing plans, programs, and initiatives that reduce greenhouse gas emissions. The Recirculated Plan provides goals and supporting measures to reflect and ensure compliance with changes in the local and State policies while ensuring it encourages economic growth and keeps the city economically competitive while achieving GHG reductions, as discussed under VIII. GREENHOUSE GAS EMISSIONS (b), below. The benefits of adopted regulations become flat in later years, and growth starts to exceed the reductions from all regulations and measures. In conclusion, the proposed Project would not result in greenhouse gas emission environmental impacts beyond those analyzed in the GP PEIR. Therefore, impacts would be a *less than significant impact*.

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

The City of Fresno adopted its Recirculated GHG Reduction Plan Update as part of the preparation and certification of the GP PEIR. The Project's consistency with applicable GHG policies from the Recirculated GHG Reduction Plan policies is assessed below.

The Project is also assessed for its consistency with ARB's adopted Scoping Plans. This would be achieved with an assessment of the Project's compliance with Scoping Plan measures contained in the 2017 Climate Change Scoping Plan..

The Project would be required to incorporate a number of features that would minimize GHG emissions as required by the City's existing plans and policies. These features

are consistent with project-level strategies identified by the ARB's Scoping Plan and the City of Fresno Recirculated GHG Reduction Plan Update (City of Fresno, 2021).

Consistency with SB 32

The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32 (California Air Resources Board, 2017). The Project is required to comply with the SB 32 strategy and is not expected to conflict with this component of Executive Order S-3-05.

Consistency with California's Post-2020 Targets

The State's executive branch adopted several Executive Orders related to GHG emissions. Executive Orders S-3-05 and B-30-15 are two examples. Executive Order S-3-05 sets goals to reduce emissions to 1990 levels by 2020 and 80 percent below 1990 levels by 2050. The goal of Executive Order S-3-05 to reduce GHG emissions to 1990 levels by 2020 was codified by AB 32. Therefore, the Project does not conflict with this component of Executive Order S-3-05. Executive Order B-30-15 establishes an interim goal to reduce GHG emissions to 40 percent below 1990 levels by 2030.

As discussed above, the proposed Project will not occur at a scale or scope with the potential to contribute substantially or cumulatively to the generation of GHG emissions, either directly or indirectly, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. There would be a less than significant impact as the Project would adhere to standards as identified in the Fresno General Plan. Therefore, impacts are considered *less than significant*

Mitigation Measures

No mitigation is required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIAL – Would the project:				
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	

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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	

The following analysis is based on the Phase 1 Environmental Site Assessment (Krazan and Associates, 2021a) and on the Phase 2 Limited Site Assessment (Krazan & Associates, Inc., 2021b) prepared for the Project and is attached as Appendix E and F.

DISCUSSION

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

Pursuant to the Fresno General Plan, hazardous materials are defined as those that no longer have practical use, such as substances that have been discarded, discharged, spilled, contaminated, or are being stored prior to proper disposal. Hazardous materials and hazardous wastes are classified according to four properties: toxic (causes human health effects), ignitable (has the ability to burn), corrosive (causes severe burns or damage to materials), and reactive (causes explosions or generates toxic gases). Hazardous materials have been and are commonly used in commercial, agricultural, and industrial applications and, to a limited extent, in residential areas.

Construction of the Project would involve the temporary transport and use of minor quantities of hazardous materials such as fuels, oils, lubricants, hydraulic fluids, paints, and solvents. The types and quantities of hazardous materials to be used and stored onsite would not be of a significant amount to create a reasonably foreseeable upset or accident condition. The handling and transport of all hazardous materials onsite would be performed in accordance with all applicable federal, State, and local laws and regulations.

Hazardous and non-hazardous wastes would likely be transported to and from the Project site during the construction phase of the proposed Project. Construction would involve the use of some hazardous materials, such as diesel fuel, hydraulic oil, grease,

solvents, adhesives, paints, and other petroleum-based products, although these materials are commonly used during construction activities and would not be disposed of on the Project site. Workers would likely be trained to properly identify and handle all hazardous materials, following OSHA/CALOSHA regulations. Hazardous waste would be either recycled or disposed of at a permitted and licensed treatment and/or disposal facility. Hazardous waste would be either recycled or disposed of at a permitted and licensed treatment and/or disposal facility. Any hazardous waste or debris that is generated during construction of the proposed Project would be collected and transported away from the site and disposed of at an approved offsite landfill or other such facility. In addition, sanitary waste generated during construction would be managed through the use of portable toilets, which would be located at reasonably accessible onsite locations. Hazardous materials such as paint, bleach, water treatment chemicals, gasoline, oil, etc., may be used during construction. These materials are stored in appropriate storage locations and containers in the manner specified by the manufacturer and disposed of in accordance with local, federal, and State regulations. No significant hazard to the public or to the environment through the routine transport, use, or disposal of hazardous waste during construction or operation of the new residential development would occur.

There are a number of sensitive receptors (schools and other residences) located in close proximity to the Project site. However, the use of hazardous materials will be limited in quantities and duration and, if spilled, would be localized. The proposed Project would not emit hazardous emissions or involve handling hazardous or acutely hazardous materials substances. The transport use and storage of hazardous materials would be required to comply with all applicable State and federal regulations, such as requirements that spills would be cleaned immediately, and all wastes and spills control materials would be properly disposed of at approved disposal facilities

Residential construction generally uses fewer hazardous chemicals or use chemicals in relatively small quantities and concentrations as compared to commercial or industrial uses. In addition, once the Project is completed, the chemicals used would include minor quantities of pesticides/ rodenticides, fertilizers, paints, detergents, and other cleaners.

Once constructed, the use of such materials such as paint, bleach, etc., are considered common for residential developments, and it would be unlikely for such materials to be stored or used in such quantities that would be considered a significant hazard. The Project itself will not generate or use hazardous materials in a manner outside health department requirements. Therefore, impacts would be *less than significant.*

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?

As noted in VII GEOLOGY AND SOILS(b), the Project would be required to prepare and implement a SWPPP under the NPDES permit for construction sites over one

acre. The SWPPP identifies potential sources of pollution from the Project that may affect the quality of stormwater discharge and requires that BMPs be implemented to prevent contamination at the source. By implementing BMPs during construction activities, accidental spills of hazardous materials would be contained, and soil and groundwater contamination would be minimized or prevented. While there are no known existing hazardous material conditions on the site and the Project is not located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, portions of the Project site have been utilized for agricultural purposes, which may have utilized pesticides in association with agricultural operations and cultivation.

As noted in III- Air Quality, the Project would include compliance with the SJVAPCD's Regulation VIII (Fugitive PM10 Prohibitions). Grading of the site will be minimal, and with the appropriate application of water or other dust suppression during construction, impacts from pesticides in the soil during construction will be minimal.

Valley Fever or coccidioidomycosis *is prevalent in California's central San Joaquin Valley*. This disease, which affects both humans and animals, is caused by inhalation of arthroconidia (spores) of the fungus *Coccidioides immitis* (CI). CI spores are found in the top few inches of soil, and the existence of the fungus in most soil areas is temporary. The proposed project has the potential to generate fugitive dust and suspend Valley Fever spores with the dust that could then reach nearby sensitive receptors. It is possible that onsite workers could be exposed to valley fever as fugitive dust is generated during construction. Implementation of dust control measures throughout the construction period would reduce fugitive dust emissions. Therefore, the exposure to Valley Fever would be minimized. With the implementation of these dust control measures, dust from the construction of the proposed Project would not add significantly to the existing exposure level of people to this fungus, including construction workers, and impacts would be reduced to less than significant levels.

There is a completed LUST site reported releases of hazardous materials to the subsurface reported within a 4,000 radius of the site. The review of the State of California Regional Water Quality Control Board (RWQCB) Geotracker database available via the RWQCB Internet Website indicated that no active LUST sites, land disposal sites, or military sites are listed for the subject site, the adjacent properties, or properties located within the subject site vicinity (Krazan and Associates, 2021a).

Review of the State of California Department of Toxic Substances Control (DTSC) Envirostor database available via the DTSC’s Internet Website indicated that no records of cleanup sites, including State response sites, voluntary cleanup sites, school cleanup sites, or military or school evaluation sites are listed for the Project site, the adjacent properties, or properties located within 500 feet of the Project site (Krazan and Associates, 2021a). Additionally, no Federal Superfund – National Priorities List (NPL) sites were determined to be located within a one-mile radius of the subject site.

Review of State of California Department of Conservation, Geological Energy Management Division (Cal GEM) Online Mapping System (DOMS) indicated that no plugged and abandoned or producing oil wells are located on or adjacent to the subject site (Krazan and Associates, 2021a).

If during the construction phase of the Project there is a use of hazardous materials, the safe processing and storage of hazardous materials consistent with the California Building Code and the Uniform Fire Code will be required. In Phase 1, conducted for the Project, it was confirmed that two fuel USTs were previously near the Project site, and Phase 2 was recommended. In Phase 2, it was concluded that there was no evidence of a UST or related subsurface metallic features of concern. If an unknown UST was discovered during construction, it would be properly destroyed in accordance with the State regulation.

A constituent of potential concern in soil associated with hazardous material storage area surface staining was evaluated in Phase 2. It was found that soil samples that were collected showed no physical evidence of impacts (Krazan & Associates, Inc., 2021b).

If during the construction phase of the Project there is a use of hazardous materials, the safe processing and storage of hazardous materials consistent with the California Building Code and the Uniform Fire Code will be required. To reduce potential impacts regarding transport, use, or disposal of hazardous materials in the City, the Policies NS-4-a and NS-4-bwill be implemented. This include the safe processing and storage of hazardous materials developing inventory statements, risk management prevention plans, and contingency/emergency response action plans during construction activities.

The proposed Project is not anticipated to create a significant hazard to the public or the environment. As mentioned previously in subsection a) above, the residential Project would not routinely transport, use, dispose of, or discharge hazardous materials into the environment. Therefore, Project impacts are considered to be *less than significant*.

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

The closest school is Virginia R. Boris Elementary which is 0.6 miles away from the Project site. Construction activities of the proposed Project will result in the temporary use of minimal hazardous materials and or substances, such as lubricant and diesel fuel, during construction. Exhaust from construction and related activities is expected to be minimal and not significant. Once constructed, the residential Project is not expected to result in hazardous emissions. All construction-related activities as a result of the proposed Project would be subject to local, State, and federal laws related to emissions of hazardous materials and substances. Therefore, impacts would be *less than significant*.

d) Be located on a site that 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?

See discussion under IX. HAZARDS AND HAZARDOUS MATERIAL (b)., There are no known existing hazardous material conditions on the property, and the property is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and the DTSC. The Project itself will not generate or use hazardous materials in a manner outside health department requirements.

It is not anticipated that there are any underground storage tanks or pipelines located on the Project site that contain hazardous materials; however, any underground storage tanks or pipelines will be removed in accordance with removal standards of the Fresno County Department of Public Health. The disturbance of such items during construction activities is unlikely. Therefore, because the Project is not located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Therefore, Project impacts are considered to be *less than significant*.

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?

The Project site is approximately 1.5 miles east of the Fresno Yosemite International Airport. The Project site is located within Safety Zone 6 – Traffic Pattern Zone of the Fresno County *Airport Land Use Compatibility Plan* (Fresno County Airport Land Use Commission, 2018). Height restriction criteria in Zone 6 limit objects to be less than 100 feet in height. The Project's proposed units will not exceed approximately 20 feet in height and would not require to create impacts to aviation operations at the airport. Therefore, impacts would be *less than significant.*

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

The City of Fresno Fire Department Emergency Preparedness Office coordinates planning, preparedness and response/recovery efforts for the City. The design and environmental review procedures employed will ensure compliance with emergency response and evacuation plans. In addition, the site plan will be reviewed by the Fire Department and Public Works Department per standard City procedure to ensure consistency with emergency response and evacuation needs.

All Project plans submitted to the City will be reviewed in compliance local regulations related to emergency access. The proposed Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The proposed Project will have accessways that comply with

regulations. Therefore, the proposed Project would have a less than significant impact on emergency evacuation. In conclusion, the Project will not result in any interference with an emergency evacuation plan impacts beyond those analyzed in GP PEIR. Therefore, Project impacts are considered to 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?

The General Plan identified areas within the city limits as largely being categorized as little or no threat or moderate fire hazard, which is attributed to urbanization. The General Plan further indicated that small areas along the San Joaquin River Bluff area in northern Fresno are prone to wildfires due to relatively steep terrain/vegetation, and these areas are classified as high fire hazard areas. However, the Project site is not located within this area and is proposed on a relatively flat surface.

The land surrounding the Project site is primarily residential and agricultural land and is not considered to be wildlands. Additionally, Cal Fire indicates that the Project site is in a Local Responsibility Area (LRA) and is identified as a LRA unzoned area and therefore not within a high fire severity zone (CAL FIRE, 2022). The structures will be built following applicable California Building Codes and standards. The land surrounding the Project site is primarily vacant land and is not considered to be wildlands. The proposed Project would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires. The Project will not result in exposure to people or structures to a significant risk involving wildland fires beyond those analyzed in the GP PEIR. Therefore, Project impacts are considered to be *less than significant.*

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
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:			X	
i) Result in a substantial erosion or siltation on or offsite;			X	
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or offsite:			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

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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	

DISCUSSION

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

Adverse groundwater conditions of limited supply and compromised quality have been well documented by planning, environmental impact report and technical studies over the past 20 years, including the GP PEIR No. 20190500005 for the Fresno General Plan, the GP PEIR 10130 for the 2025 Fresno General Plan, Final EIR No.10100, Final EIR No.10117 and Final EIR No. SCH 95022029 (Fresno Metropolitan Water Resource Management Plan), et al. These conditions include water quality degradation due to contamination from 1,2-dibromo-3-chloropropane (DBCP), ethylene-dibromide (EDB), trichloroethylene (TCE), 1,2,3-trichloropropane (TCP), tetrachloroethylene (PCE), 1,1-dichloroethane (DCE), nitrate, and from naturally occurring arsenic, iron, manganese, and radon concentrations; low water well yields in some parts of the City; limited aquifer storage capacity from over-utilization; limited recharge activities; and, intensive urban or semi-urban development occurring up-gradient from the Fresno Metropolitan Area.

In order to be compliant with State regulations, the Project is required to comply with State regulations adopted to reduce groundwater degradation. Construction activities, including grading, could temporarily increase soil erosion rates during and shortly after Project construction. Construction-related erosion could result in the loss of soil and could adversely affect water quality in nearby surface waters. As noted in Section VII Geology and Soils, development as a result of the proposed Project will be required to prepare a site-specific SWPPP as required by the RWQCB. The SWPPP is required to be approved by the RWQCB prior to construction which identifies project-specific best management measures that are designed to control drainage and erosion.

In addition, prior to the commencement of construction activities, the Project proponent would be required to adhere to the requirements of the City Grading Code. This includes implementation of various measures designed to prevent erosion and control drainage onsite, thereby further preventing the potential sedimentation and subsequent degradation of stormwater. Therefore, Project impacts are considered to be *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?

Fresno is one of the largest cities in the United States that still maintains a significant reliance on groundwater as part of its public water supply portfolio. Surface water treatment and distribution have been implemented in the northeastern part of the City since 2004 and in the southeastern part of the City since 2018, but the City is still subject to an EPA Sole Source Aquifer designation. While the aquifer underlying Fresno typically exceeds a depth of 300-feet and is capacious enough to provide adequate quantities of safe drinking water to the metropolitan area well into the twenty-first century, groundwater degradation, increasingly stringent water quality regulations, and a historic trend of high consumptive use of water on a per capita basis (currently 205 gallons per day per capita), have resulted in a general decline in aquifer levels, increased cost to provide potable water, and localized water supply limitations.

The City's groundwater aquifer has been documented by the State Department of Water Resources (Bulletin 118 - Interim Update 2016) to be critically over-drafted and has been designated a high-priority basin for corrective action through the Sustainable Groundwater Management Act (SGMA).

The City of Fresno is actively addressing these issues through citywide metering and updating water use targets and the water shortage contingency plan in the City of Fresno 2020 Urban Water Management Plan (UWMP). The City has adopted the Fresno Metropolitan Water Resource Management Plan. The purpose of these management plans is to provide safe, adequate, and dependable water supplies in order to adequately meet existing and the future needs of the metropolitan area in an economical manner; protect groundwater quality from further degradation and overdraft, and provide a plan of reasonably implementable measures and facilities. City water wells, pump stations, recharge facilities, water treatment and distribution systems have been expanded incrementally to mitigate increased water demands and respond to groundwater quality challenges.

In response to the need for a comprehensive long-range water supply and distribution strategy, the Fresno General Plan recognizes regional water resource planning efforts, such as the Kings Basin's Integrated Regional Water Management Plan, the Fresno Area Regional Groundwater Management Plan, the North Kings Groundwater Sustainability Agency, City of Fresno Metropolitan Water Resource Management Plan and cites the findings of the City of Fresno 2020 UWMP. The purpose of these

management plans is to provide safe, adequate, and dependable water supplies on order to adequately meet the existing and future needs of the Kings Basin regions and the Fresno-Clovis metropolitan area in an economical manner; protect groundwater quality from further degradation and overdraft and provide a plan of reasonably implementable measures and facilities.

The City has indicated that groundwater wells, pump stations, recharge facilities, water treatment and distribution systems shall be expanded incrementally to mitigate increased water demands. One of the primary objectives of Fresno's future water supply plans detailed in Fresno's Metropolitan Water Resources Management Plan, 2010, 2015 & 2020 UWMPs is to balance groundwater operations through a host of strategies. Through careful planning, Fresno has designed a comprehensive plan to accomplish this objective by increasing utilization of surface water supplies through expansion of surface water treatment facilities, intentional recharge, and conservation, thereby reducing groundwater pumping. The City continually monitors the impacts of land use changes and development project proposals on water supply facilities by assigning fixed demand allocations to each parcel by land use as currently zoned or proposed to be rezoned.

The 2020 City of Fresno Urban Water Management Plan outlines the City of Fresno's goals to achieve a 'water balance' between supply and demand while decreasing reliance upon and use of groundwater. To achieve these goals, the City is implementing a host of strategies, including:

- Intentional groundwater recharge through reclamation at the City's groundwater recharge facility at Leaky Acres (located northwest of Fresno-Yosemite international Airport), refurbish existing streams and canals to increase percolation, and recharge at Fresno Metropolitan Flood Control District's (FMFCD) stormwater basins.
- Increase use of existing surface water entitlements from the Kings River, United States Bureau of Reclamation, and Fresno Irrigation District for treatment at the Northeast Surface Water Treatment Facility (NESWTF) and construct a new Southeast Surface Water Treatment Facility (SESWTF).
- Recycle wastewater at the Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF) for treatment and reuse for irrigation and in percolation ponds for groundwater recharge. Further actions include the General Plan, Policy RC-6-d to prepare, adopt and implement a City of Fresno Recycled Water Master Plan.

The use of groundwater will continue to be an important part of the City's supply but will not be relied upon as heavily as has historically been the case. The 2020 UWMP shows that groundwater pumped by the City has decreased from approximately 148,006 AF/year in 2008 to approximately 55,000 AF/year in 2020. The projected total estimated groundwater yield for 2045 is approximately 159,820 AF/year, inclusive of intentional recharge. In order to meet future demand projections, the City is planning

to rely on expanding their delivery and treatment of surface water supplies and groundwater recharge activities.

Project construction would add additional impervious surfaces to the Project site; however, various areas of the Project site would remain largely pervious, which would allow infiltration to underlying groundwater. For example, the Project includes ample landscaping areas that would remain pervious. The areas would continue to contribute to groundwater recharge following construction of the Project. Furthermore, the Project is not anticipated to significantly affect groundwater quality because sufficient stormwater infrastructure would be constructed as part of Project to detain and filter stormwater runoff and prevent long-term water quality degradation. Therefore, Project construction and operation would not substantially deplete or interfere with groundwater supply or quality.

The Urban Water Management Plan states that in 2020, the City's water use averaged 198 GPCD based on 121,993 AF of water production and a service area population of 550,217. The City is far below its 2020 daily per capita water use target of 247 GPCD due to the extensive conservation efforts implemented by the City in the past decade (City of Fresno, 2020).

The proposed Project consists of 72 dwelling units, and the average household size in Fresno is 3.06 (U.S. Census Bureau, 2019). It is estimated the Project will house approximately 220 people. Therefore, the proposed Project would result in an estimated water demand of 46,047 gallons per day (233 people x 198 gallons/day x 365 days = 15,922,526 gallons/year or 48.9 acre-feet of water annually).

The Project will not conflict with the implementation of a water quality control plan or sustainable groundwater management or impede sustainable groundwater management plans.

Implementation of the City of Fresno General Plan policies will ensure that the City has a reliable, long-range source of water through the implementation of measures, standards, incentives, and capital investments to promote water conservation and supply.

The proposed Project would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted). Therefore, impacts are *less than significant.*

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 substantial erosion or siltation on or offsite?

The Project site is generally flat. The Project site does not have a stream or river and is not near another body of water. The Project would not result in substantial erosion or siltation on or offsite or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite.

As discussed in VII. GEOLOGY AND SOILS (b), above, potential impacts on water quality arising from erosion and sedimentation are expected to be localized and temporary during construction. Construction-related erosion and sedimentation impacts as a result of soil disturbance would be less than significant after implementation of an SWPPP and BMPs required by NPDES. No drainages or other water bodies are present on the Project site, and therefore, the proposed Project would not change the course of any such drainages.

The Project has been designed in a way that does not require a stormwater retention basin, and stormwater would drain into the existing City stormwater system. The Project will be constructed to meet City standards related to stormwater and would not degrade surface or groundwater quality, and impacts would be *less than significant*.

Once constructed, the Project would develop areas of impervious surfaces that would reduce the rate of percolation at the site or concentrate, but areas of open space will allow for the percolation of stormwater to recharge the aquifer or the water would be directed into the City's existing stormwater sewer system. The Project would comply with applicable City development standards and codes. Therefore, the Project would have a less than significant impact on drainage patterns or cause substantial erosion or siltation on or off the site.. The impact 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 offsite?

See also X. HYDROLOGY AND WATER QUALITY (c(i)), above. No drainages or other water bodies are present on the Project site, and therefore, the development of the site would not change the course of any such drainages that may potentially result in on or offsite flooding. Water would be used during the temporary construction phase of the proposed Project (i.e., for dust suppression). However, any water used for dust control would be mechanically and precisely applied and would generally infiltrate or evaporate prior to running off.

The BMPs associated with the SWPPP would prevent flooding onsite and offsite. While the project would permanently increase the impervious surface area, the Project would maintain the overall on-site drainage patterns and continue to direct surface water to catch basins that flow into the existing storm drains. Prior to the issuance of building permits, the applicant would be required to provide a stormwater improvement plan to the City to ensure that the stormwater system would be capable of handling a

25-year storm and that the drainage facilities conform to City requirements. Additionally, the applicant would be required to pay for all necessary improvement costs if the City determines that the City's storm drain system or storm drain pumping capacity requires expansion or modification as a result of the Project.

Therefore, the Project would not substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite and impacts are *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?

See X. HYDROLOGY AND WATER QUALITY (c(i)-c(ii)), above. The Project will comply with all applicable State and City codes and regulations. The storm drainage plan will be supported by engineering calculations to ensure that the Project does not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

As discussed above, the proposed project would result in a minimal increase in impervious surfaces and therefore would not substantially increase runoff from the site. However, compliance with existing regulatory requirements, including compliance with City standards during construction and operation, would reduce or eliminate the potential for project operations to cause substantial additional polluted runoff or runoff in excess of existing or planned stormwater drainage systems. Therefore, the Project would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff and impacts will be *less than significant.*

iv. Impede or redirect flood flows?

Please see X. HYDROLOGY AND WATER QUALITY (c(i)-c(iii)), above. The rate and amount of surface runoff are determined by multiple factors, including the following: topography, the amount and intensity of precipitation, the amount of evaporation that occurs in the watershed, and the amount of precipitation and water that infiltrates the groundwater.

The proposed project is not located within the 100-year flood hazard area as mapped by the Federal Emergency Management Agency (FEMA) (Krazan & Associates, Inc., 2022). Therefore, the proposed project would not impede or redirect potential flood flows, and the proposed Project would have *no impact*.

.

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

The Project is located inland and not near an ocean or large body of water; therefore, it would not be affected by a tsunami. According to the FEMA Floodplain panel 06019C1595H, the Project is within an area of Minimal Flood Hazard (Krazan and Associates, 2021a). Since the Project is in an area that is not susceptible to offsite inundation, the Project would not risk the release of pollutants due to Project inundation. The impact would be *less than significant*.

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

See response b. above. As noted, the proposed Project is anticipated to use approximately 16 million gallons of water annually. The Project will obtain water by connecting to City utility services.

Implementation of the Fresno General Plan policies, the Kings Basin Integrated Regional Water Management Plan, City of Fresno Urban Water Management Plan, Fresno-Area Regional Groundwater Management Plan, and City of Fresno Metropolitan Water Resource Management Plan and the applicable policies of the GP PEIR, will address the issues of providing an adequate, reliable, and sustainable water supply for the Project's urban domestic and public safety consumptive purposes. City of Fresno, Water Division has reviewed the Project for compliance with water quality and groundwater management. Further, the Fresno General Plan policies and initiatives ensure water conservation. The GP PEIR also evaluated the need for additional water conveyance infrastructure (e.g., new water wells) and the increase in additional water demand with the approval of proposed development in the City.

As noted above, the proposed project would be required to adhere to NPDES drainage control requirements during construction and operation as well as to FMFCD drainage control requirements. As a result, the proposed project would not include any other waste discharges that could conflict with the Basin Plan. Therefore, the proposed project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan and impacts would be *less than significant*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING – Would the project:				
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

DISCUSSION

a) Physically divide an established community?

The physical division of an established community typically refers to the construction of a physical feature (such as an interstate highway or railroad tracks) or removal of a means of access (such as a local road or bridge) that would impair mobility within an existing community, or between a community and outlying areas. The Project is located within an area primarily consisting of residential development located within the Fresno city limits. The Project's zoning classification for the parcel is Medium Density Residential, and the proposed residential use is a permitted use. The Project would not create a physical barrier between existing communities, as it allows for the orderly expansion of similar residential use in the area. In addition, there will be a trail allowing connectivity to the existing communities to the south.

These improvements would not affect connectivity and would not divide an established community. Therefore, the proposed project would have no impact related to physically dividing an established community and there are *no impacts*.

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?

The proposed Project is located in an area that is planned for residential and urban development by the City. The construction of this Project will not conflict with any conservation plans because it is not located within any conservation plan areas.

It is determined that the proposed Project is consistent with respective General Plan Land Use designation for the Project site. The Project would comply with the General Plan objectives and policies and will not significantly conflict with applicable land use plans, policies, or regulations of the City of Fresno. Furthermore, the proposed Project, including the design and improvement of the Project site, is found; (1) to be suitable for the type and density of development; (2) to be safe from potential cause or introduction of serious public health problems; and, (3) to not conflict with any public interests in the Project site or adjacent lands.

The Project will fulfill the following applicable General Plan Policies:

- LU-5-c: Medium Density Residential Uses. Promote medium density residential uses to maximize efficient use of residential property through a wide range of densities.
- LU-5-g Scale and Character of New Development. Allow new development in or adjacent to established neighborhoods that is compatible in scale and character with the surrounding area by promoting a transition in scale and architectural character between new buildings and established neighborhoods, as well as integrating pedestrian circulation and vehicular routes
- LU-5-h Housing Offering Amenities. Support housing that offers residents a range of amenities, including public and private open space, landscaping, and recreation facilities with direct access to commercial services, public transit, and community gathering spaces.

The proposed Project would not result in any land use and planning environmental impacts beyond those analyzed in GP PEIR. There would be *no impact.*

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – 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?				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

DISCUSSION

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?

The California Department of Conservation, Geological Survey classifies lands into Aggregate and Mineral Resource Zones (MRZs) based on guidelines adopted by the California State Mining and Geology Board, as mandated by the Surface Mining and Reclamation Act of 1974. These MRZs identify whether known or inferred significant mineral resources are present in areas. Lead agencies are required to incorporate identified MRZs resource areas delineated by the State into their General Plans. The subject site is not located in an area designated for mineral resource preservation or recovery area.

According to the California Department of Conservation - Geologic Energy Management Division (CalGEM) website, there are no active, inactive, or capped oil wells located within the Project site, and it is not within a DOGGR-recognized oilfield (Krazan and Associates, 2021a). Additionally, the Fresno General Plan has not designated the Project site to be located in an area designated for mineral resource preservation or recovery. The Project will 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, the Project would not result in any mineral resource environmental impacts beyond those analyzed in GP PEIR. Therefore, there would be *no impact*.

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?

The subject site is not designated by the General Plan, specific plan, or other land use plan as a locally important mineral resource recovery site; therefore, it will not result in the loss of availability of a locally-important mineral resource. This is a less than significant impact. Therefore, the Project would not result in any mineral resource environmental impacts beyond those analyzed in the GP PEIR, and there is *no impact*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
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

DISCUSSION

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?

Project construction would result in short-term noise impacts on the nearby sensitive receptors. Maximum construction noise would be short duration, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of noise impacts generally would be from one day to several days depending on the phase of construction. Short-term noise impacts would occur during grading and site preparation activities. Construction-related short-term noise levels would be higher than existing ambient noise levels

currently in the project area but would no longer occur once construction of the proposed project is completed.

The General Plan provides noise level criteria for land use compatibility for both transportation and non-transportation noise sources. The General Plan sets noise compatibility standards for transportation noise sources in terms of the Day-Night Average Level (Ldn). The Ldn represents the time-weighted energy average noise level for a 24-hour day, with a 10-dB penalty added to noise levels occurring during the nighttime hours (10:00 p.m.-7:00 a.m.). The Ldn represents cumulative exposure to noise over an extended period of time and are therefore calculated based upon annual average conditions.

Policy NS-1-b establishes the acceptable noise exposure level range for residential to be 65dB Ldn, and Policy NS-1-h of the Noise Element requires that interior noise levels attributable to interior 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.

Residential construction methods will comply with current building code requirements and reduce exterior noise levels by approximately 25 dB if windows and doors are closed. This will be sufficient for compliance with the City's 45 dB Ldn interior standard by the proposed Project.

The Noise Element indicates the main streets of Clinton Avenue and Armstrong Avenue to be within the 60-65 dB range, which is within the acceptable range for residential development noise standards.

The Project will be required to comply with all noise policies and development standards identified within the Fresno General Plan and GP PEIR as well as the noise ordinance of the Fresno Municipal Code, Chapter 10 Article 1 – Noise Regulations. Impacts related to the interior and exterior noise levels would comply with the City's noise standards, and impacts will be less than significant.

Once the Project is constructed, as a small residential community, it is not anticipated that noise levels would be exceed applicable local or State standards. Construction activity would be exempt from City of Fresno noise regulations as long as such activity is conducted pursuant to an applicable construction permit and occurs between 7:00 a.m. and 10:00 p.m., excluding Sunday. The Project would also comply with GP PEIR mitigation measure NOI-2, which prohibits the use of heavy construction equipment within 25 feet of existing structures during construction. With implementation of GP PEIR NOI-2, short-term construction impacts associated with the exposure of persons to or the generation of noise levels in excess of standards established in the general plan or noise ordinance or applicable standards of other agencies would be *less than significant with mitigation incorporated*.

No operational noise will be generated that exceeds the adopted noise levels identified for neighboring land uses. Therefore, Project impacts are considered to be *less than significant with mitigation incorporated.*

Mitigation Measures

The proposed project shall implement and incorporate the noise related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12, 2022.

NOI-2: Construction Vibration. The use of heavy construction equipment within 25 feet of existing structures shall be prohibited.

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

According to the Federal Transit Administration Noise and Vibration Impact Assessment Guidelines (FTA-VA-90-06), ground-borne vibration can be a serious concern for nearby neighbors of a transit system route or maintenance facility, causing buildings to shake and rumbling sounds to be heard. In contrast to airborne noise, ground-borne vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads.

The City does not currently have adopted standards for groundborne vibration. As a result, vibration impact criteria established by the U.S. Department of Transportation's Federal Transit Administration (FTA) criteria were applied to the assessment of railroad operations at the project site. The FTA vibration impact criteria are based on maximum overall levels for a single event, such as train passersby.

The Project would not generate excessive vibratory or noise impacts beyond those analyzed in the GP PEIR. Therefore, Project impacts are considered to 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?

The closest airport or airstrip is the Fresno Yosemite International Airport, located approximately 1.5 mile west of the Project site. The proposed Project is outside noise level contours as identified in the Fresno Yosemite International Airport Noise Exposure Map (Fresno Yosemite International Airport, 2022) and the future noise contours as shown in the ALUCP (Fresno County Airport Land Use Commission, 2018).

Therefore, the proposed Project would not expose people residing or working at the Project site to excessive noise levels associated with such airport facilities. In conclusion, with implementation of the Project, the Project will not result in any noise impacts beyond those analyzed in the GP PEIR, and the Project will have *no impact.*

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – 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)?			X	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X

DISCUSSION

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)?

The population in Fresno is 542,107 people, and the average persons per household is 3.06 (United States Census, 2021). It is anticipated that by 2040 the Fresno population will be 816,980 (Fresno County Council of Governments, 2017)

The Project build-out will result in an additional 72 single-family residences and a corresponding population increase of 216 residents. The Project population growth represents a 0.00042 percent increase in the 2021 population. The Project-related population increase is de-minimis and will be absorbed upon full build-out of the Project. The installation of new infrastructure would be limited to the internal single-family residences and related improvements. The sizing of the infrastructure would be specific to the number of units proposed within the Project site.

The City's General Plan includes encouraging residential developments to meet the future population growth needs. This project accommodates this anticipated increase in City's population by providing 72 new residences for existing and future residents. Implementation of the proposed Project would not induce unplanned population growth in an area as the property is currently designated for residential uses by the City's General Plan and this type of residential development is anticipated on the property. As such, it would not either directly or indirectly cause impacts by the

development of unplanned infrastructure. Therefore, impacts are considered to be *less than significant*.

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

The proposed Project would not require the demolition of any housing, as the Project site is currently undeveloped. As proposed, the Project will not displace existing housing or people either directly or indirectly. Therefore, there are *no impacts*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES – Would the project:				
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:				
Fire protection?			X	
Police protection?			X	
Schools?			X	
Parks?			X	
Other public facilities?			X	

DISCUSSION

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:

i. Fire protection?

The Project site is located approximately 1.5 miles east of Fire Station 10. The proposed Project will comply with Title 24 of the California Building Code and local development standards. Prior to the recordation of any subdivision map, the applicant will be required to enter into an agreement with the City to pay development impact fees that are collected for the provision of capital facilities for fire facilities that will provide for future facilities as the City's population increases.

The Project is required to pay development impact fees that will provide for future fire-related facilities as the City's population increases. Recognizing that there would be an increased demand for fire and emergency medical response, the General Plan includes several policies to support the activities of the Fresno Fire Department. The policies and objectives of the General Plan will ensure that the proposed Project does not significantly affect fire protection.

The construction of the Project may result in a minor increase in demand for fire protection services but would not require new or altered facilities. The General Plan includes several policies to support the activities of the Fresno Fire Department, such as PU-3-d, which requires the Fire Department to review of development applications, and PU-3-e, which enforces amendments to construction and fire codes, to systematically reduce the level of risk to life and property from fire, commensurate with the City's fire suppression capabilities.

The policies and objectives of the General Plan will ensure that the proposed Project does not significantly affect fire protection. The Project would not affect the Department's response time to incidents as described in General Plan Policy PF-H 8. Therefore, impacts would be *less than significant.*

ii. Police protection?

The Project site is 3.2 miles north east of the Fresno Department Southeast Policing District station. According to the City of Fresno General Plan, development impact fees are collected for the provision of capital facilities for public safety facilities that will provide for future facilities as the City's population increases. Recognizing that there would be an increased demand for police and emergency medical response, the General Plan includes several policies to support the activities of the Police Department.

The Project may result in significant environmental impacts related to acceptable service ratios, response times, or other performance objectives specific to police protection services. However, to reduce impacts to public protection services, the Project developer is required to pay appropriate impact fees related to police protection and is responsible for constructing any infrastructure needed to serve the Project. Therefore, the Project does not significantly affect police protection.
Therefore, with implementation of standard local requirements for development projects related to police protection services, Project impacts are considered *less than significant*.

iii. Schools?

Impacts on schools are determined by analyzing the projected increase in demand for schools as a result of future residential development projected under the proposed Project.

School fees are collected for all new residential and commercial buildings. Fees are typically higher for residential uses, as these uses are associated with increased population growth, leading to an increased student population at existing schools. The Project review and approval process will ensure that all school-related fees are paid by the applicant. These requirements will ensure that the proposed Project does not significantly affect Clovis Unified School District facilities. The District recognizes that the legislature, as a matter of law, has deemed under Government Code Section 65995 and all school facilities' assessment of developer fees are set for new residential developments. The Project developer will pay appropriate impact fees at the time of building permits. The proposed Project does not result in the construction of new school facilities.

Therefore, with implementation of standard local requirements for development projects related to school fees and impacts are considered *less than significant*

iv. Parks?

Impacts on parks and recreational facilities are determined by analyzing the projected increase in demand for these facilities as a result of future residential development and the corresponding population increase projected under the proposed Project. According to the General Plan, the City's standard called for at least 3.0 acres of parkland to be provided per 1,000 residents. Park and recreation fees (Quimby) are collected for all new residential developments. The Project review and approval process will ensure that all park-related fees are paid by the applicant. Therefore, impacts would be *less than significant.*

v. Other public facilities?

The Project build-out will result in an additional 72 single-family residences, and a corresponding population increase of 216 residents. The Project population growth represents a 0.0411357% increase in the 2020 population. Impacts on other public facilities such as courts, libraries, and hospitals are determined by analyzing the projected increase in demand for these facilities.

The Project review and approval process will ensure that all development-related impact fees are paid by the applicant. Therefore, Project impacts are considered to be *less than significant*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION - 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?			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	

DISCUSSION

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?

See also Section XV (iv) PUBLIC SERVICES above. The Project proposes approximately 0.6 acres of open space and trail area. Impacts on parks and recreational facilities are determined by analyzing the projected increase in demand for these facilities as a result of future residential development and corresponding population increases.

There are two parks in the vicinity of the Project, including Trolley Creek Park, approximately 3.5 miles to the southwest, and Carriage House Park, approximately 0.75 miles northeast.

The Project build-out will result in an additional 72 single-family residences and a corresponding population increase of 216 residents. The Project population growth is minimal and will not have a negative impact on neighborhood or regional parks as the Project has its own open space area.

Therefore, Project *impacts* related to parks and recreational facilities are considered to be *less than significant*.

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

As stated above, Project proposes to develop approximately 0.6 acres of open space for dedication to the City of Fresno as Identified on VTM 6400. Future construction of the park facilities and any associated infrastructure additions will be conducted by the City of Fresno. Therefore, through the standard City building process for the future park, City staff will ensure that the proposed Project does not significantly affect park and recreation facilities. The Project would not result in any new recreational, environmental impacts and are considered to be *less than significant*.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION – Would the project:				
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	

DISCUSSION

The VMT calculator results referenced herein are attached as Appendix H.

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

Bicycle Facilities

The 2017 City of Fresno Active Transportation Plan (ATP) refers to the Caltrans Highway Design Manual for the classification of bicycle facilities as follows:

- Class I Bikeway (Bike Path): Off-street facilities that provide exclusive use for non-motorized travel, including bicyclists and pedestrians.
- Class II Bikeway (Bike Lane): On-street facilities that use striping, stencils, and signage to denote preferential or exclusive use by bicyclists.
- Class III Bikeway (Bike Route): On-street pavement markings or signage that connect the bicycle roadway network along corridors that do not provide enough space for dedicated lanes on low-speed and low-volume streets.

- Class IV Bikeway (Separated Bikeways): Physically separated bicycle facilities that are distinct from the sidewalk and designed for exclusive use by bicyclists. Commonly known as “cycle tracks,” they are located within the street right-of-way but provide similar comfort when compared to Class I Bikeways.

The ATP identifies existing Class II and Class III bike lanes in the immediate vicinity of the Project site. The ATP also identifies exiting Class II bikeway facilities running east-west along Church Avenue and Class III bike lane along the eastern portion of Peach Avenue westerly adjacent to the Project site.

Pedestrian Facilities

Pedestrian connectivity is not well established in the general vicinity of the site. Sidewalks typically exist only within and along the frontage of adjacent residential developments. The Project would be required to construct sidewalks along its frontage. Upon submittal of development permits with the City for the Project, all applicable requirements for updating sidewalks and other related infrastructure will be required from the ATP.

Transit

Fresno Area Express (FAX) is the transit operator in the City of Fresno. The closest is FAX Route 45, located at the intersection of S Princeton Avenue and N Fowler Avenue. The Project is not expected to disrupt or impede existing transit facilities.

The Project is not expected to disrupt or impede existing or planned bicycle facilities or pedestrian or transit facilities. The Project will not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, bicycle, and pedestrian facilities. Impacts related to these transit facilities will not be greater than those analyzed in GP PEIR SCH No. 2019050005, and impacts are *less than significant*.

Table 17-1 below presents trip generation estimates for the Project. For comparison purposes, an estimate of the number of trips that potentially could have been generated by a Project constructed based on the current Single-Family Residential land use designation is presented below.

Table 17-1
Project Trip Generation Estimate

Land Use	Units	Daily		A.M. Peak Hour					P.M. Peak Hour				
		Rate	Total	Rate	In:Out	In	Out	Total	Rate	In:Out	In	Out	Total
Single-Family Detached Housing (210)	72	9.44	680	0.74	25:75	13	40	53	0.99	63:37	45	26	71

Source: Trip Generation Manual 10th Edition – Volume 2: Data

The potential impacts on the local roadway system from the construction of 76 single-family homes related vehicle trips and the Project's operational traffic on the area roadway and circulation system is minimal. Trips generated during construction would not likely result in a substantial increase in traffic in relation to the existing roadway capacity or congestion at intersections. Impacts related to traffic are *less than significant*.

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

Vehicle Miles Traveled:

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 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 is no longer a relevant CEQA criteria for transportation impacts.

CEQA Guidelines Section 15064.3(b)(4) 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 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."

On June 25, 2020, the City of Fresno adopted CEQA Guidelines for Vehicle Miles Traveled Thresholds pursuant to Senate Bill 743 to be effective of July 1, 2020. The thresholds described therein are referred to herein as the City of Fresno VMT Thresholds. The City of Fresno VMT Thresholds document was 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 VMT Thresholds.

The City of Fresno VMT Thresholds adopted a screening standard and criteria that can

be used to screen out qualified projects that meet the adopted criteria from needing to prepare a detailed VMT analysis.

The City of Fresno VMT Thresholds Section 3.0 regarding Project Screening discusses a variety of projects that may be screened out of a VMT analysis including specific development and transportation projects. For development projects, conditions may exist that would presume that a development project has a less than significant impact. These may be size, location, proximity to transit, or trip-making potential. For transportation projects, the primary attribute to consider with transportation projects is the potential to increase vehicle travel, sometimes referred to as “induced travel.”

The proposed project is eligible to screen out because new developments within areas with low VMT will tend to have similarly low VMT. The Fresno VMT Screening Map shows the Project site is within an area of Low VMT (Fresno County, 2022). In order to further analyze the Project’s impacts, the site plan's components entered to conduct a Project-specific VMT analysis using the City of Fresno Urban Form VMT Calculator, and Table 17-2 summarizes the results. The City's VMT Threshold of significance is 13% which means that a project must reduce the VMT below existing by at least 13% in order to avoid exceeding the threshold of significance.

Project features that will contribute to the reduction of VMT while utilizing the City of Fresno Urban form Calculator include but are not limited to the following components: sidewalk width/length, the number of street trees within and along the project perimeter, the overall street tree canopy, the addition of walking trail along the southern end of the development and located recessed garages on 18 of the 72 proposed units.

Therefore, the project is projected to reduce VMT by 15.67 % below the existing. This is a reduction of more than 13% below existing baseline. Therefore, the VMT is below the threshold of significance. After analysis of the project using the City of Fresno Urban Form Calculator there are no impacts associated with VMT.

Table 17-2
VMT Results

Project Component	Fresno of Fresno VMT Threshold	Project VMT reduction	Significant VMT Impact?
Single Family Residential (Low-Rise) (210)	13.92	15.67	No

Note: 1 = VMT Results per City of Fresno Urban Form VMT Calculator

In conclusion, the Project will result in a *less than significant* VMT impact and is consistent with CEQA Guidelines Section 15064.3(b).

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

The Project will be designed to current standards and safety regulations. All intersections will be constructed to comply with the City and Caltrans regulations and design and safety standards of Chapter 33 of the California Building Codes (CBC) and the guidelines of Title 24 in order to create safe and accessible roadways. All new driveways connecting to existing adjacent streets must be designed in accordance with the City's Street standards that assure safe ingress/egress.

Vehicles exiting the subdivision will be provided with a clear view of the roadway without obstructions. Landscaping associated with the entry driveways could impede such views if improperly installed. Specific circulation patterns and roadway designs will incorporate all applicable safety measures to ensure that hazardous design features or inadequate emergency access to the site or other areas surrounding the Project area would not occur.

Therefore, with the incorporated design features and all applicable rules and regulations for City standards, Project impacts are considered to be *less than significant,* and no further analysis is warranted.

d) Result in inadequate emergency access?

There will be two main entry points to the Project – one off of Clinton Avenue and another off of Armstrong Avenue. The Project will be required to construct all necessary street frontage improvements to City Standards. In addition, the proposed Project will be required to dedicate and construct improvements along all major street frontages and on any future proposed interior local streets within respective phases in accordance with City of Fresno standards, specifications, and requirements.

The Project would not inhibit the ability of local roadways to continue to accommodate emergency response and evacuation activities. The Project would not interfere with the City's adopted emergency response plan. Therefore, with the incorporated design features and all applicable rules and regulations for State and City standards. Therefore, the Project would result in a *less than significant* impact associated with emergency access.

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRIBAL CULTURAL RESOURCES – Would the project:				
a) 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:			X	
i) 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	
ii) 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	

DISCUSSION

a) 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:

i. 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

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)).

Pursuant to AB 52, the Table Mountain Rancheria of California and Dumna Wo Wah Tribal Government were invited to consult under AB 52. The City of Fresno mailed notices of the proposed Project to each of these tribes on March 15, 2022 which included the required 30-day time period regarding AB 52. To date, neither tribal group has responded to the City's notices for this Project.

As noted in V. CULTURAL RESOURCES (a)-(c), the Native American Heritage Commission (NAHC) was asked to conduct a search of its Sacred Lands File to identify previously recorded sacred sites or cultural resources of special importance to tribes and provide contact information for local Native American representatives who may have information about the Project area. A response dated May 12, 2022 indicates negative results.

A records search (#22-006) was conducted at the Southern San Joaquin Valley Information Center (IC), CSU Bakersfield. Records search covered an area within one-half mile of the Project and included a review of the *National Register of Historic Places, California Points of Historical Interest, California Registry of Historic Resources, California Historical Landmarks, California State Historic Resources Inventory*, and a review of cultural resource reports on file.

Based on the results of cultural records search findings and the lack of historical or archaeological resources previously identified within a half-mile radius of the proposed Project, the potential to encounter subsurface cultural resources is minimal. Additionally, the Project construction would be conducted within the partially developed and previously disturbed parcel. The Project would not impact the cultural resource properties that are within the vicinity. The potential to uncover subsurface historical or archaeological deposits would be considered unlikely.

The Project site is currently undeveloped and was historically in agricultural production. If any artifacts are inadvertently discovered during ground-disturbing

activities, existing federal, State, and local laws and regulations as well as the mitigation measures of the GP PEIR, will require construction activities to cease until such artifacts are properly examined and determined not to be of significance by a qualified cultural resource professional.

In conclusion, with GP PEIR mitigation measures incorporated, the Project will not result in any cultural resource impacts beyond those analyzed in GP PEIR, and implementation of the GP PEIR Mitigation Measure CUL-1.1, CUL-1.2 CUL-2 and CUL-3 will result in a *less than significant impact with mitigation incorporated*.

ii. 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.

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)).

Additional 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.

Overall, because all tribes to which invitations for consultation were extended declined AB 52 consultation and because existing cultural resources protection laws exist that would require construction activities to cease if artifacts are discovered. The Project site is currently undeveloped and was historically in agricultural production. If any artifacts are inadvertently discovered during ground-disturbing activities, existing federal, State, and local laws and regulations as well as the mitigation measures of the GP PEIR, will require construction activities to cease until such artifacts are properly examined and determined not to be of significance by a qualified cultural resource professional.

In conclusion, with GP PEIR mitigation measures incorporated, the Project will not result in any cultural resource impacts beyond those analyzed in the GP PEIR, and implementation of GP PEIR Mitigation Measures CUL-1.1, CUL 1.2, CUL-2 and CUL-3 will result in a *less than significant impact with mitigation incorporated.*

Mitigation Measures

The proposed project shall implement and incorporate the tribal cultural resource related mitigation measures as identified in the attached Project Specific Mitigation Monitoring Checklist dated July 12, 2022.

CUL-1.1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find, and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to the excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance.

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 Lead Agency. Appropriate measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these. Any historical 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.

CUL-1.2: Prior to approval of any discretionary project that could result in an adverse change to a potentially historic and/or cultural resource, the City shall require a site-specific evaluation of historic and/or cultural resources by a professional who meets the Secretary of Interior's Qualifications. The evaluation shall provide recommendations to mitigate potential impacts to historic and/or cultural resources and shall be approved by the Director of Planning and Development.

CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed.

If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find, and a

qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City 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 CEQA Guidelines Section 15064.5.

If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any prehistoric archaeological 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.

If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to the above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified archaeologist. If additional prehistoric archaeological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.

CUL-3: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall, within 24 hours, notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains.

Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their

recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater 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	

DISCUSSION

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?

The proposed Project will require construction of new infrastructure to connect to the existing utility infrastructure. This will include water, wastewater, and stormwater drainage connections. Additionally, the Project will include connections for electric power, natural gas, and telecommunications facilities. The installation of this infrastructure will not require any major upsizing or other offsite construction activities that would cause a significant impact. The new infrastructure would be connected to the existing infrastructure that is adjacent to the Project site. The City Department of Public Works issued comments on the Project dated April 29, 2022 regarding among other things, sewer service requirements. These requirements included the payment of applicable Sewer Connection fees. In lieu of the sewer requirements, the developer may submit available Project Sewer EDUs (credits) in accordance with the Copper River Ranch Wastewater Capacity Supply Implementation Agreement dated July15, 2015, as amended.

Impacts to storm drainage facilities have been previously discussed in X. HYDROLOGY AND WATER QUALITY (b, c (i)-C(iii) and e). In compliance with NPDES General Construction Permit requirements, the proposed Project would design and submit a site-specific SWPPP to minimize the discharge of wastewater during construction and a Water Quality Management Plan that includes BMPs for runoff control as required. Therefore, the proposed Project would not require new stormwater drainage facilities to manage stormwater runoff during construction or operation, and impacts would be less than significant.

The proposed Project would be subject to the payment of any applicable connection charges and/or fees and extension of services in a manner that is compliant with the Department of Public Utilities standards, specifications, and policies.

Sanitary sewer and water service under City of Fresno jurisdiction, delivery is also subject to payment of applicable connection charges and/or fees; compliance with the Department of Public Utilities standards, specifications, and policies; the rules and regulations of the California Public Utilities Commission and California Health Services; and, implementation of the Citywide program for the completion of incremental expansions to facilities for planned water supply, treatment, and storage. Therefore, the impacts of the Project are *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?

As discussed under the Section VII HYDROLOGY AND WATER QUALITY (b, c(i)-c(iii) and e, the proposed Project is anticipated to use approximately 48.9 acre-feet of water annually. The Project will obtain water by connecting to City utility services. The City Department of Public Works issued comments on the Project dated April 29, 2022 regarding among other things, water service and water supply requirements. These requirements included the use of water meters, the installation of water mains, fire hydrants, and the payment of applicable Water Capacity fees.

The GP PEIR recognizes regional water resource planning efforts, such as, the Kings Basin's Integrated Regional Water Management Plan, the Fresno- Area Regional Groundwater Management Plan, and the City of Fresno Metropolitan Water Resource Management Plan, and cites the findings of the City of Fresno 2020 UWMP. As was previously discussed, the Project would result in a less-than-significant impact related to water supply and there are sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years.

The applicant will be required to comply with all requirements of the City of Fresno Department of Public Utilities to reduce the Project's water impacts to less than significant. Impacts of the Project are *less than significant* .

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?

See also discussion of Impacts a and b, above, The City acts as the Regional Sewer Agency and is responsible for operating the Fresno/Clovis Regional Wastewater Reclamation Facility (RWRF) and the North Fresno Wastewater Treatment Facility (NFWTF). The Regional Facility provides wastewater treatment for a service area that includes most of the Cities of Fresno and Clovis and some unincorporated areas of Fresno County. According to the GP PEIR, the Regional Facility received and treated approximately 72,302 acre-feet (AF) of wastewater during 2011, representing an annual average daily flow of approximately 64.5 million gallons per day (mgd). The quantity of wastewater received and treated by the Regional Facility has been declining since 2006, when it peaked at a total of approximately 80,801 AF, representing an annual average daily flow of approximately 72.1 mgd.

The permitted wastewater treatment capacity of the Regional Facility is currently 80 mgd as an annual, monthly average flow, and 88 mgd as a maximum monthly average flow. The City is currently evaluating upgrades and modifications to the existing Regional Facility that may result in a capacity rating increase of 15 mgd. The City of Clovis owns 9.3 mgd of wastewater treatment capacity at the Regional Facility, and the City of Fresno owns the remaining capacity.

The NFWTF was constructed in late 2006 to provide wastewater treatment service for residential and commercial development in the surrounding area of north Fresno. The permitted capacity of the NFWRF is 0.71 mgd, as an average monthly flow, and 1.07

mgd, as a maximum daily flow. The City's master plan for the NFWRF calls for ultimate expansion to an average monthly flow capacity of 1.07 mgd upon full development of the NFWRF service area.

The GP PEIR concludes that impacts associated with wastewater treatment facilities and capacity resulting from buildout of the General Plan, including the proposed Project site, would be less than significant.

The City of Fresno Department of Public Utilities has determined that adequate sanitary sewer and water services would be available to serve the proposed project subject to the payment of any applicable connection charges and/or fees and extension of services in a manner that is compliant with the Department of Public Utilities standards, specifications, and policies. The proposed Project will not result in an inadequate capacity to serve the Project's anticipated wastewater demand in addition to the provider's existing commitments. Impacts are *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?

The City of Fresno Department of Public Utilities, Solid Waste Division has reviewed the Project for compliance with any federal, State, and local management and reduction statutes and regulations related to solid waste. According to the City's GP PEIR, garbage disposed of in the City of Fresno is taken to Cedar Avenue Recycling and Transfer Station. Once the trash has been off-loaded at the transfer station, it is sorted, and non-recyclable solid waste is loaded onto large trucks and taken to the American Avenue Landfill located approximately six miles southwest of Kerman. American Avenue Landfill is owned and operated by Fresno County and began operations in 1992 for both public and commercial solid waste haulers. The American Avenue Landfill is a sanitary landfill, meaning that it is a disposal site for a non-hazardous solid waste spread in layers, compacted to the smallest practical volume, and covered by material applied at the end of each operating day.

The American Avenue Landfill (i.e., American Avenue Disposal Site 10-AA-0009) has a maximum permitted capacity of 32,700,000 cubic yards and a remaining capacity of 29,358,535 cubic yards, with an estimated closure date of August 31, 2031. The maximum permitted throughput is 2,200 tons per day. Other landfills within the County of Fresno include the Clovis Landfill, with a maximum remaining permitted capacity of 7,740,000 cubic yards, a maximum permitted throughput of 2,000 tons per day, and an estimated closure date of 2047. There is also the Coalinga Landfill, with a maximum remaining capacity of 1,930,062 cubic yards, a maximum permitted throughput of 200 tons per day, and an estimated closure date of 2029. As noted above, the estimated closure date of the American Avenue Landfill is 2031. Additional capacity also exists at the Clovis Landfill and Coalinga Landfill. The 200 tons per year would not result in exceedance of the local capacity infrastructure.

It is anticipated the Project would general minimal amounts of waste during construction. Any Hazardous waste generated during construction would be disposed of at an approved location, and construction activities are not expected to exceed the capacity of these landfills.

In the operation phase, typical household refuse would be generated by residences. According to CalRecyle, residential units average 12.23 lbs. of household refuse per day. The proposed 72 units would generate approximately 881 lbs. per day. The Project will comply with any statutes and regulations related to solid waste. Therefore, the proposed Project would not result in any waste related environmental impacts And impacts would be *less than significant.*

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

Project construction and operational activities that generate solid waste are handled, transported, and disposed of in accordance with applicable federal, State, and local regulations pertaining to municipal waste. The 1989 California Integrated Waste Management Act requires jurisdictions to attain specific waste diversion goals (AB 393, 2019). In addition, the California Solid Waste Reuse and Recycling Access Act of 1991, as amended, requires expanded or new development Projects to incorporate storage areas for recycling bins into the proposed Project design. Reuse and recycling construction debris would reduce operating expenses and save valuable landfill space. With development in accordance with the City's General Plan, solid waste will continue to be handled, transported, and disposed of according to all applicable federal, State, and local regulations pertaining to municipal waste disposal. The City has a number of provisions that require or promote recycling and waste reduction, including the Construction and Demolition Recycling Ordinance, (FMC 6-201) which requires contractors to recycle construction and demolition debris.

In June of 2005, the Fresno City Council adopted the City of Fresno Solid Waste and Recycling Facilities Ordinance (Ord. No. 2003-100) (FMC Chapter 6, Article 2 and FMC 10-401) in order to comply with AB 939, which requires the implementation of integrated waste management plans and mandates that local jurisdictions divert at least 50 percent of all solid waste. The recycling of construction and demolition materials is required for any City-issued building, relocation, or demolition permit that generates at least eight cubic yards of material by volume.

The Project would generate solid waste during construction and operation of the new single-family residences. Common construction waste may include metals, masonry, plastic pipe, rocks, dirt, cardboard, or green waste related to land development. AB 939 and Ordinance No. 2003-100 require the City of Fresno to attain specific waste diversion goals. The waste disposal facilities listed above have the available capacity to accept construction waste from potential new facilities.

The Project is required to comply with all local, State, and federal regulations related to solid waste and would not result in any utility-related environmental impacts. Impacts are considered to be *less than significant.*

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas 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?			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

DISCUSSION

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

The Project site will connect to an existing network of City streets. The Project site has several access points allowing access in the event of an emergency. Therefore, no significant impacts related to the impairment of the implementation of or physical

interference with an adopted emergency response plan or emergency evacuation plan would occur.

The proposed Project is for residential construction. These types of uses are similar in nature to the other uses within the Project area. It is not anticipated that new or different impairments would occur that may physically interfere with an adopted emergency response plan or emergency evacuation plan. All Project plans submitted to the City will be reviewed in compliance with federal, State, and local regulations related to emergency access. The Project is required to comply with all local, State, and federal regulations related to emergency preparedness and would not result in environmental impacts. Therefore, Project impacts are considered to 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?

See IX. HAZARDS AND HAZARDOUS MATERIAL (g). There are no very high fire hazard severity zones located within the City of Fresno. Although the City of Fresno is proximate to high and very high fire hazard designated areas, the City is largely categorized as little or no threat or moderate fire hazard, which is largely attributed to urban development (City of Fresno, 2014). Some small areas along the San Joaquin River Bluff area in northern Fresno are prone to wildfires due to relatively steep terrain/vegetation, and these areas are classified as high fire hazard areas. The Project area is located in a LRA unzoned area and not within a high fire severity hazard zone (CAL FIRE, 2022).

The risk of wildfire is related to a variety of parameters, including fuel loading (vegetation), fire weather (winds, temperatures, humidity levels, and fuel moisture contents), and topography (degree of slope). Steep slopes contribute to fire hazards by intensifying the effects of wind and making fire suppression difficult. Fuels such as grass are highly flammable because they have a high surface area to mass ratio and require less heat to reach the ignition point. The Project site is located in an area that is predominately urban, which is not considered at a significant risk of wildlife. There are minimal amounts of highly flammable fuels such as dry grasses in the area. Therefore, in the unlikely event of a wildfire, the project would not expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. The Project would not pose a wildfire risk during construction or operations and Project impacts are considered to be *less than significant.*

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?

The Project includes development of infrastructure (water, sewer, and storm drainage) required to support the proposed residential. The site is not located within an area designated as a high wildfire risk. Additionally, all new single-family residences would be required to comply with federal, State, and local health and safety regulations, development standards, building codes, and other laws and regulations that govern fire protection and suppression. All Project-related construction will meet or exceed all Federal, State, and local regulations and codes related to fire protection and suppression. Additionally, the Project would not require the installation or maintenance of associated infrastructure and will not exacerbate fire risk that may result in impacts to the environment. Therefore, Project impacts are considered to be *less than significant.*

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?

The proposed Project would require the installation of storm drainage infrastructure to ensure that storm waters properly drain from the Project site and do not result in downstream flooding or major drainage changes. A storm drainage plan would be designed and engineered to ensure the proper construction of storm drainage infrastructure to control runoff and prevent flooding, erosion, and sedimentation.

Upon development of the site, stormwater would flow to the existing storm drains in the adjacent roadways. Any further storm drain requirements will be processed by the Fresno Metropolitan Flood Control District and constructed per the District's standards. Additionally, the Project site is located within FEMA "Area of Minimal Flood Hazard" indicating that the site is located outside of the 100-year flood hazard zone. Further, because the site is essentially flat and located in an existing urbanized area of the City, downstream landslides would not occur.

Landslides include rockfalls, deep slope failure, and shallow slope failure. Factors such as the geological conditions, drainage, slope, vegetation, and others directly affect the potential for landslides. The Project site is flat and has little topography. Therefore, the Project will not expose people or structures to risks of causing downstream flooding, landslides, runoff, slope instability, or drainage changes. The Project would not pose a risk of downslope or downstream flooding or landslides during construction or operations and there would be *no impacts.*

Mitigation Measures

No mitigation measures are required.

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. MANDATORY FINDINGS OF SIGNIFICANCE				
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		

DISCUSSION

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?

The size of the Project is a size that is not a detriment to the existing environment with the Project area. The Project will not reduce habitat, biological resource populations, or local historical components. As discussed in Section IV. Biological Resources and Section V, Cultural Resources, with the incorporation of Mitigation Measures BIO-1.1, BIO-1.2, BIO-1.4, BIO-2.1, CUL-1.1, CUL-1.2, CUL-2, CUL-3, the Project does not have the potential to degrade the quality of the environment or reduce the habitat of wildlife species and will not threaten plant communities or endanger any floral or faunal species. Furthermore, the Project has no potential to eliminate important examples of major periods in history. With implementation of applicable City of Fresno General Plan PEIR mitigation measures, impacts are considered to be *less than significant 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.)

The Project is considered to be proposed at a size and scope that would not result in impacts that are cumulatively considerable when viewed in connection with existing or future development as described in this initial study document.

Implementation of recommended mitigation measures AES-4.1, AES-4.2, AG-1.1, AIR-2.1 AIR-2.2, BIO-1.1, BIO-1.2, BIO-1.4, BIO-2.1, CUL-1.1, CUL-1.2, CUL-2, CUL-3, GEO-6.1, and NOI-2 would ensure that the impacts of the project would be below established thresholds of significance and that these impacts would not combine with the impacts of other cumulative projects to result in a cumulatively considerable impact on the environment as a result of project development and this impact would be less than significant with mitigation incorporated.

For the topics of Energy, Hazards and Hazardous Materials, Hydrology and Water Quality Land Use and Planning, Mineral Resources, Population and Housing, Public Services, Recreation, Transportation, Utilities and Service Systems, and Wildlife, the Project would have no impacts or less-than-significant impacts, and therefore, the project would not substantially contribute to any potential cumulative impacts for these topics.

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

The Project is consistent with applicable environmental policies and mitigation measures as outlined in the General Plan PEIR that are required in several impact areas to reduce any potentially significant impacts to less than significant. Additionally, due to the existing residential development surrounding the project site and in the general area, the General Plan anticipates that future development will increase the density within adjacent areas. Development is planned to occur in the immediate area projected by the City's General Plan and analyzed in the General Plan PEIR.

Therefore, the Project is not anticipated to cause substantial adverse effects on human beings directly. With implementation of applicable City of Fresno General Plan PEIR mitigation measures AES-4.1, AES-4.2, AG-1.1, AIR-2.1 AIR-2.2, BIO-1.1, BIO-1.2, BIO-1.4, BIO-2.1, CUL-1.1, CUL-1.2, CUL-2, CUL-3, GEO-6.1, , and NOI-2, impacts are considered to be *less than significant with mitigation incorporated*.

References

CAL FIRE. (2022). *Fire Severity Maps*. Retrieved from Fresno: https://osfm.fire.ca.gov/divisions/community-wildfire-preparedness-and-mitigation/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/

California Air Resources Board. (2017). *California's 2017 Climate Change Scoping Plan.*

California Department of Conservation. (2018). *FMMP*. Retrieved from https://maps.conservation.ca.gov/dlrp/ciff/

CARB. (2017). *Climate Change Scoping Plan.*

City of Fresno. (2014). *General Plan.*

City of Fresno. (2020). *2020 Urban Water Management Plan.*

City of Fresno. (2021). *Greenhouse Gas Reduction Plan Update.*

Fresno County. (2021). *Fresno County Assessor.* Retrieved from Fresno County Assessment Roll: https://www2.co.fresno.ca.us/VisionLive/AssessorRecorder/Assessment_roll_2021.pdf

Fresno County. (2022). *VMT Screening Application*. Retrieved from https://gis1.lsa.net/FCOGVMT/

Fresno County Airport Land Use Commission. (2018). *Fresno County Airport Land Use Compatibility Plan.*

Fresno County Council of Governments. (2017). *Fresno County 2050 Growth Projections.*

Fresno Yosemite International Airport. (2022). *Noise Program.* Retrieved from Noise Exposure Map: https://flyfresno.com/wp-content/uploads/2018/03/2022-NEM_Contour.pdf

Krazan & Associates, Inc. (2021b). *Phase II Limited Site Assessment - Rocha Property.*

Krazan & Associates, Inc. (2022). *Geotechnical Engineering Investigation- Proposed Tract 6400.*

Krazan and Associates. (2021a). *Phase I Environmental Site Assessment- Rocha Property.*

QK. (2022a). *Biological Resource Evaluation - Rocha Property Tract Project.*

QK. (2022b). *Cultural Resources Records Search Results - Rocha Tract Project.*

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

Trinity Consultants. (2022). *Small Project Analysis Level Assessment- Rocha Property Tract 6400.*

U.S. Census Bureau. (2019). *Census* . Retrieved from Fresno, CA: https://www.census.gov/quickfacts/fresnocitycalifornia

United States Census. (2021). *U.S. Census*. Retrieved from Fresno City, CA.

MITIGATION MONITORING AND REPORTING PROGRAM – July 14, 2022

This Mitigation Monitoring and Reporting Program (MMRP) has been formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for Tentative Tract Map No. 6400 (proposed Project). The MMRP lists mitigation measures recommended in the IS/MND for the proposed Project and identifies monitoring and reporting requirements as well as conditions recommended by responsible agencies who commented on the project.

The first column of the Table identifies the mitigation measure. The second column, entitled “Party Responsible for Implementing Mitigation,” names the party responsible for carrying out the required action. The third column, “Implementation Timing,” identifies the time the mitigation measure should be initiated. The fourth column, “Party Responsible for Monitoring,” names the party ultimately responsible for ensuring that the mitigation measure is implemented. The last column will be used by the City to ensure that individual mitigation measures have been monitored.

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
AES-4.1: Lighting for Street and Parking Areas. Lighting systems for street and parking areas shall include shields to direct light to the roadway surfaces and parking areas. Vertical shields on the light fixtures shall also be used to direct light away from adjacent light sensitive land uses such as residences.	Project Applicant and project architect	Lighting systems to be confirmed during plan check, prior to issuance of building permits.	Public Works Department (PW) and Planning and Development Department (PDD)	
AES-4.2: Lighting systems for public facilities such as active play areas shall provide adequate illumination for the activity; however, low intensity light fixtures and shields shall be used to minimize spillover light onto adjacent properties.	Project Applicant and project architect	Lighting systems to be confirmed during plan check, prior to issuance of building permits.	Public Works Department (PW) and Planning and Development Department (PDD)	
AG-1.1: Consistent with Policy RC-9-c of the approved General Plan, the City, in coordination with regional partners or independently, shall establish a Farmland Preservation Program by 2025. The intent of the Farmland Preservation Program would be that when Prime Farmland, Unique Farmland, or Farmland of Statewide Importance are proposed for development and converted to urban uses within the Sphere of Influence outside city limits, this program would require that the developer of such a project mitigate the loss of farmland consistent with the requirements of CEQA. The Farmland Preservation Program shall establish thresholds	Public Works	Prior to issuance of grading or building permits whichever occurs first.	PDD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
of significance and provide several mitigation options that may include, but are not limited to, the following: • Restrictive Covenants or Deeds • In Lieu Fees • Mitigation Banks • Fee Title Acquisition • Conservation Easements • Land Use Regulations The Farmland Preservation Program may be modeled after some or all of the programs described by the California Council of Land Trusts. Prior to the adoption of the Farmland Preservation Program, projects shall be required to comply with CEQA to address potential environmental impacts on an individual basis.				
AIR-2.1: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating potential project construction phase-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology for	Project Applicant and project architect	Prior to issuance of building permits	PDD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
assessing construction impacts. If construction-related air pollutants are determined to have the potential to exceed the SJVAPCD adopted threshold of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures into construction plans to reduce air pollutant emissions during construction activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce construction emissions include but are not limited to: • Install temporary construction power supply meters onsite and use these to provide power to electric power tools whenever feasible. If temporary electric power is available on site, forbid the use of portable gasoline- or diesel-fueled electric generators. • Use of diesel oxidation catalysts and/or catalyzed diesel particulate traps on diesel equipment as feasible. • Maintain equipment according to manufacturers' specifications. • Restrict idling of equipment and trucks				

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
to a maximum of five minutes (per California Air Resources Board [CARB] regulation). • Phase grading operations to reduce disturbed areas and times of exposure. • Avoid excavation and grading during wet weather. • Limit onsite construction routes and stabilize construction entrance(s). • Remove existing vegetation only when absolutely necessary. • Sweep up spilled dry materials (e.g., cement, mortar, or dirt track-out) immediately. Never attempt to wash them away with water. Use only minimal water for dust control. • Store stockpiled materials and wastes under a temporary roof or secured plastic sheeting or tarp.				
AIR-2.2: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating	Project Applicant and project architect	Prior to issuance of building permits	SJVAPCD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
potential project operation-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology in assessing air quality impacts. If operation-related air pollutants are determined to have the potential to exceed the SJVAPCD-adopted thresholds of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures to reduce air pollutant emissions during operational activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce long-term emissions include but are not limited to: • For site-specific development that requires refrigerated vehicles, the construction documents shall demonstrate an adequate number of electrical service connections at loading docks for plugging in the anticipated number of refrigerated trailers to reduce idling time and emissions. • Applicants for manufacturing and light industrial uses shall consider energy storage (i.e., battery) and combined heat				

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
and power (CHP, also known as cogeneration) in appropriate applications to optimize renewable energy generation systems and avoid peak energy use. • Site-specific developments with truck delivery and loading areas and truck parking spaces shall include signage as a reminder to limit the idling of vehicles while parked for loading/unloading in accordance with CARB Rule 2845 (13 California Code of Regulations [CCR] Chapter 10, Section 2485). • Require that 240-volt electrical outlets or Level 3 chargers be installed in parking lots that would enable charging of neighborhood electric vehicles (NEVs) and/or battery-powered vehicles. • Maximize use of solar energy, including solar panels; installing the maximum possible number of solar energy arrays on building roofs throughout the city to generate solar energy. • Maximize the planting of trees in landscaping and parking lots. • Use light-colored paving and roofing materials. • Require use of electric or alternatively				

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
fueled street-sweepers with HEPA filters. • Require use of electric lawnmowers and leaf blowers. • Utilize only Energy Star heating, cooling, and lighting devices and appliances. • Use of water-based or low volatile organic compound (VOC) cleaning products.				
BIO-1.1: Construction of a proposed project shall avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction, to determine if the habitat supports any special-status species. If a special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible. Specific mitigation measures for direct or incidental impacts to special-status	Project Applicant and qualified biologist	The City shall ensure that this measure is incorporated into project plans prior to project approval.	PDD and CDFW	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects, and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.				
BIO-1.2: Direct or incidental take of any State or federally listed species shall be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the CDFW 2081 and USFWS Section 7 or Section 10 permitting processes shall take place prior to any action that may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to special-status species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.	Project Applicant and qualified biologist	The City shall ensure that this measure is incorporated into project plans prior to project approval.	PDD and CDFW	
BIO-1.4: Proposed projects within the Planning Area should avoid, if possible, construction within	Project Applicant and	Prior to and During construction	PDD and CDFW	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA) if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey shall be conducted by a qualified biologist to determine if any nesting birds or nesting activity is observed on or within 500 feet of a project site. If an active nest is observed during the survey, a biological monitor shall be onsite to ensure that no proposed project activities would impact the active nest. A suitable buffer shall be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor. Prior to the commencement of grading activities and issuance of any building permits, the Director of the City of Fresno Planning and Development Department, or designee, shall verify that all proposed project grading and construction plans include specific documentation regarding the requirements of the Migratory Bird Treaty Act (MBTA) and California Fish and Game	qualified biologist			

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
Code Section 3503, that preconstruction surveys have been completed and the results reviewed by staff, and that the appropriate buffers (if needed) are noted on the plans and established in the field. Specific mitigation measures for direct or incidental impacts to avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA) shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.				
BIO-2.1: A pre-construction clearance survey, following current CDFW protocols, shall be conducted by a qualified biologist to determine if a proposed project will result in the removal or impact to any riparian habitat and/or a special-status natural community with the potential to occur in the Planning Area, compensatory habitat-based mitigation shall be required to reduce project impacts. Compensatory mitigation must involve the preservation or restoration or the purchase of off-site mitigation credits for impacts to riparian habitat and/or a special-status natural	Project Applicant and qualified biologist	Prior to and During construction	PDD and CDFW	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
community. Mitigation must be conducted in-kind or within an approved mitigation bank in the region. The specific mitigation ratio for habitat-based mitigation shall be determined through consultation with the appropriate agency (i.e., CDFW or USFWS) on a case-by-case basis. The project applicant/developer for a proposed project shall develop and implement appropriate mitigation regarding impacts on their respective jurisdictions.				
CUL-1.1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City 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 the City's Historic Preservation Ordinance. 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 Lead Agency. Appropriate	Project Applicant and qualified historical resources specialist	Planning and Development Department to review contract specifications to ensure inclusion of provisions included in project-specific mitigation measure. Following discovery of previously unknown resource, a qualified historical resources specialist shall prepare	PDD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any historical 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.		recommendations and submit to the Planning and Development Department. Timing for recommendations shall be established by project-specific mitigation measure.		
CUL-1.2: Prior to approval of any discretionary project that could result in an adverse change to a potential historic and/or cultural resource, the City shall require a site-specific evaluation of historic and/or cultural resources by a professional who meets the Secretary of Interior's Qualifications. The evaluation shall provide recommendations to mitigate potential impacts to historic and/or cultural resources and shall be approved by the Director of Planning and Development.	Project Applicant and qualified historical resources specialist	Prior to commencement of, and during, construction activities.	PDD	
MM CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature	Project Applicant and qualified historical	Prior to commencement of, and during, construction activities.	PDD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed. • If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find, and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City 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 CEQA Guidelines Section 15064.5. If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or	resources specialist			

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any prehistoric archaeological 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. • If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified				

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
archaeologist. If additional prehistoric archaeological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.				
CUL-3: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development	Project Applicant and qualified historical resources specialist	Planning and Development Department to review construction specifications to ensure inclusion of provisions included in mitigation measure.	PDD	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.				
GEO-6.1: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for unique paleontological/geological resources shall be conducted. The following procedures shall be followed: • If unique paleontological/geological resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that unique paleontological/geological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find, and a qualified paleontologist shall be consulted to determine whether the resource requires further study. The	Project Applicant and project architect	Prior to development approvals	Division of the Development and Resource Management Department.	

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
qualified paleontologist shall make recommendations to the City 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. If the resources are determined to be significant, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, 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 Lead Agency approves the measures to protect these resources. Any paleontological/geological resources 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. • If unique paleontological/geological resources are found during the field survey or literature review, the				

Mitigation Measure	Party responsible for Implementing Mitigation	Implementation Timing	Party responsible for Monitoring	Verification (name/date)
resources shall be inventoried and evaluated for significance. If the resources are found to be significant, mitigation measures shall be identified by the qualified paleontologist. Similar to the above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include a paleontological monitor. The monitoring period shall be determined by the qualified paleontologist. If additional paleontological/geological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.				
NOI-2: Construction Vibration. The use of heavy construction equipment within 25 feet of existing structures shall be prohibited.	Project applicant	During Construction	PDD	

Appendices:

Appendix A: Air Quality SPAL
Appendix B: Biological Resources Evaluation
Appendix C: Cultural Resources Technical Memo
Appendix D: Geotechnical Engineering Evaluation
Appendix E: Phase 1 Environmental Site Assessment
Appendix F: Phase 2 Limited Site Assessment

Appendix A

SMALL PROJECT ANALYSIS LEVEL ASSESSMENT

Rocha Property Tract 6400
Fresno, CA

Prepared For:

QK Inc.
601 Pollasky Avenue, Suite 301
Clovis, CA 93612

Prepared By:

TRINITY CONSULTANTS
4900 California Avenue, Suite 420A
Bakersfield, CA 93309
(661) 282-2200

April 2022

Project 220505.0105

Trinity Consultants

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY 1-1
   - 1.1 Executive Summary 1-1
   - 1.2 Statement of Finding 1-1

2. PROJECT INFORMATION 2-1
   - 2.1 Introduction 2-1
   - 2.2 Project Location 2-1

3. SMALL PROJECT ANALYSIS LEVEL QUALIFICATION 3-1

4. AIR QUALITY IMPACTS THRESHOLDS AND EVALUATION METHODOLOGY 4-1

5. PROJECT-RELATED EMISSIONS 5-1
   - 5.1 Short-Term Emissions 5-1
   - 5.2 Long-Term Emissions 5-1
   - 5.3 Greenhouse Gas Emissions 5-2
   - 5.4 Potential Impact on Sensitive Receptors 5-3
   - 5.5 Potential Impacts to Visibility to Nearby Class 1 Areas 5-3
   - 5.6 Potential Odor Impacts 5-3
   - 5.7 Ambient Air Quality Impacts 5-4
   - 5.8 Toxic Air Contaminant (TAC) Impacts 5-4

6. CONCLUSIONS 6-1

7. REFERENCES 7-1

APPENDIX A. CALEEMOD EMISSIONS ESTIMATES OUTPUT FILES A-1

LIST OF FIGURES

Figure 2-1. Project Location 2-1

Figure 2-2. Proposed Site Plan 2-2

LIST OF TABLES

Table 3-1. Small Project Analysis Level in Units for Dwelling (Residential) 3-1

Table 4-1. SJVAPCD Air Quality Thresholds of Significance - Criteria Pollutants 4-1

Table 5-1. Construction Emissions 5-1

Table 5-2. Total Project Operational Emissions 5-2

Table 5-3. Estimated Annual Greenhouse Gas Emissions 5-2

Table 5-4. Sensitive Receptors Located <2 Miles from Project 5-3

Table 5-5. Potential Maximum Health Risk Impacts 5-5

1. EXECUTIVE SUMMARY

1.1 Executive Summary

Trinity Consultants has completed a limited air quality assessment for a single-family residential subdivision to be located on APN 574-050-02(Project) near the intersection of East Clinton Avenue and North Armstrong Avenue in Fresno, California. The Project includes the construction of 72 lots on the 12.65 acre parcel.

This limited air quality assessment uses the San Joaquin Valley Air Pollution Control District's (SJVAPCD) screening tool, Small Project Analysis Level (SPAL) (SJVAPCD 2020). This SPAL assessment was prepared pursuant to the SJVAPCD's Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) (SJVAPCD 2015), the California Environmental Quality Act (CEQA) (Public Resources Code 21000 to 21189) and the CEQA Guidelines (California Code of Regulations Title 14, Division 6, Chapter 3, Sections 15000 – 15387).

1.2 Statement of Finding

Based on the SPAL established by the SJVAPCD's GAMAQI, the emissions estimates prepared pursuant to this SPAL assessment do not exceed the SJVAPCD's established emissions thresholds and significance thresholds for all CEQA air quality determinations; this Project would therefore not pose a significant impact to the San Joaquin Valley Air Basin and would have a less than significant air quality impact.

2. PROJECT INFORMATION

2.1 Introduction

The Project site is located in the City of Fresno west of the intersection of East Clinton Avenue and North Armstrong Avenue on APN 574-050-02. The Project includes the construction of a 72 single family residential units. The Project was assessed as if it would be developed in one phase. This assessment examines the projected gross impacts to air quality posed by this Project to the San Joaquin Valley Air Basin to determine whether or not the Project remains below established air quality thresholds of significance.

2.2 Project Location

The Project is located in the City of Fresno, California west of the corner of East Clinton Avenue and North Armstrong Avenue . **Figure 2-1** depicts the Project location within the City of Fresno and **Figure 2-2** depicts the proposed site plan.

Figure 2-1. Project Location

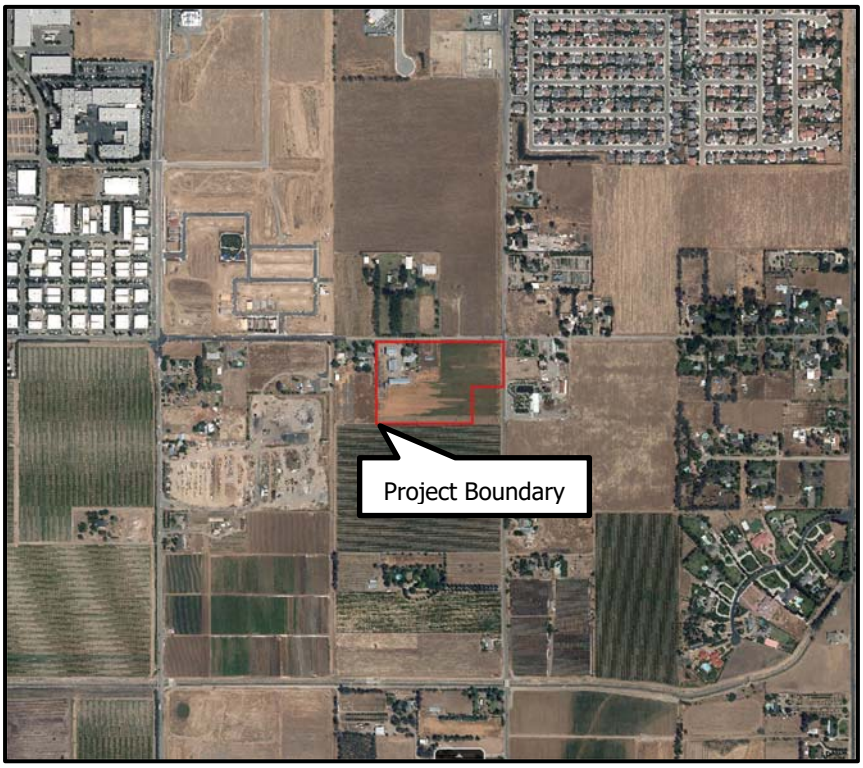
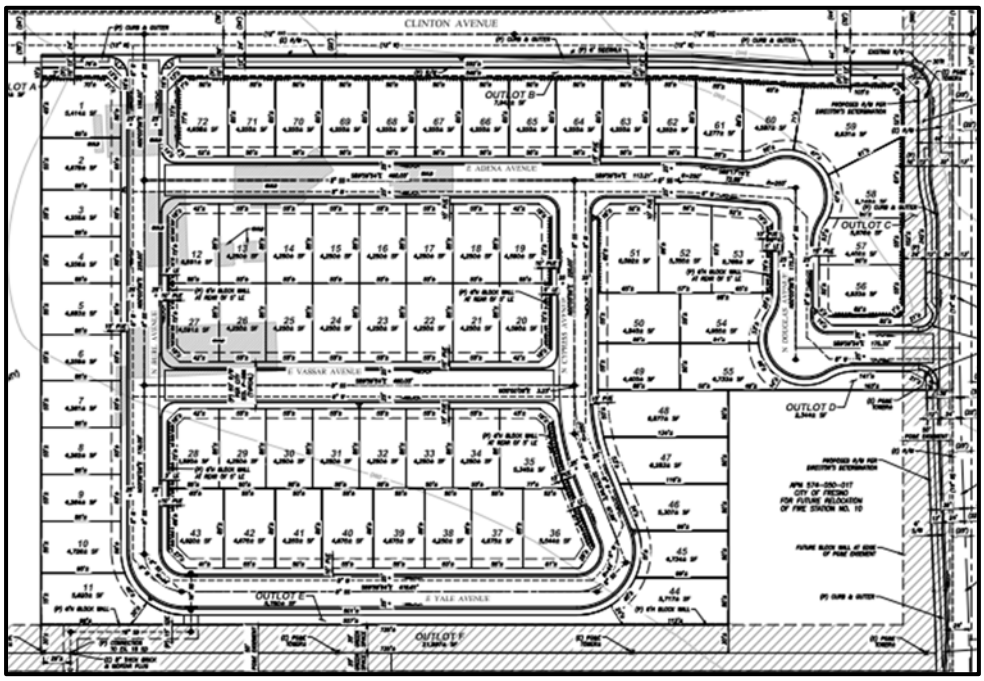


Figure 2-2. Proposed Site Plan



3. SMALL PROJECT ANALYSIS LEVEL QUALIFICATION

This assessment was prepared pursuant to the SJVAPCD's GAMAQI (SJVAPCD 2015), the CEQA (Public Resources Code 21000 to 21189) and CEQA Guidelines (California Code of Regulations Title 14, Division 6, Chapter 3, Sections 15000 – 15387). The SJVAPCD created the SPAL screening tool to streamline air quality assessments of commonly encountered projects. According to GAMAQI, the SJVAPCD "pre-calculated the emissions on a large number and types of projects to identify the level at which they have no possibility of exceeding the emissions thresholds"[1].

The SJVAPCD SPAL process established review parameters to determine whether a project qualifies as a "small project." A project that is found to be "less than" the established parameters has "no possibility of exceeding criteria pollutant emissions thresholds". **Table 3-1** presents the SPAL size parameters for residential projects.

Table 3-1. Small Project Analysis Level in Units for Dwelling (Residential)

Land Use Category – Residential	Project Size (Dwelling Units) *	ADT One-Way for all Fleet Types (except HHDT)	ADT One-Way for HHDT Trips Only
Single Family	155	800	15
Apartment, Low Rise	224		
Apartment, Mid Rise	225		
Apartment, High Rise	340		
Condominiums/Townhouse	256		
Condominiums, High Rise	352		
Mobile Home Park	292		
Retirement Community	580		
Congregate Care Assisted Living	536		
Proposed Project	72	672	14
*Project size based on SPAL Table 1, as posted on SJVAPCD webpage: https://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI-SPAL.PDF			

As shown in **Table 3-1**, the proposed Project would not exceed the established SPAL limits for a "Single Family" residential project. The Project would construct 72 single family dwelling units compared to the allowable project size of 155 dwelling units. And based on CalEEMod default trip rate and the SJVAPCD approved residential fleet mix the Project's average daily trips (ADTs) would be below both SPAL ADT thresholds. Based on the above information, this Project qualifies for a limited air quality analysis applying the SPAL guidance to determine air quality impacts.

[1] SJVAPCD GAMAQI, Section 8.3.4, Page 85.

4. AIR QUALITY IMPACTS THRESHOLDS AND EVALUATION METHODOLOGY

Significance thresholds are based on the CEQA Appendix G Environmental Checklist Form (not included herein) and SJVAPCD air quality thresholds (SJVAPCD 2015). A potentially significant impact to air quality, as defined by the CEQA Checklist, would occur if the project caused one or more of the following to occur:

- 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 non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; and/or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SJVAPCD has identified quantitative emission thresholds to determine whether the potential air quality impacts of a project require analysis in the form of an Environmental Impact Report. The SJVAPCD air quality thresholds from the GAMAQI are presented in **Table 4-1** (SJVAPCD 2015). The SJVAPCD separates construction emissions from operational emissions, and further separates permitted operational emissions from non-permitted operational emissions, for determining significance thresholds for air pollutant emissions.

Table 4-1. SJVAPCD Air Quality Thresholds of Significance - Criteria Pollutants

Pollutant/ Precursor	Construction Emissions	Operational Emissions	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
	Emissions (tpy)	Emissions (tpy)	Emissions (tpy)
CO	100	100	100
NOx	10	10	10
ROG	10	10	10
SOx	27	27	27
PM_{10}	15	15	15
$PM_{2.5}$	15	15	15

Source: SJVAPCD 2015

Criteria pollutant emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.2 (California Air Pollution Control Officers Association (CAPCOA) 2016). This project would generate short-term construction emissions and long-term operational emissions.

An air quality evaluation also considers: 1) exposure of sensitive receptors to substantial pollutant concentrations; and 2) the creation of other emissions (such as those leading to odors) adversely affecting a substantial number of people. The criteria for this evaluation are based on the Lead Agency's determination of the proximity of the proposed Project to sensitive receptors. A sensitive receptor is a location where human populations, especially children, senior citizens and sick persons, are present, and where there is a reasonable expectation of continuous human exposure to pollutants, according to the averaging period for ambient air quality standards, i.e. the 24-hour, 8-hour or 1-hour standards. Commercial and industrial sources are not considered sensitive receptors.

5. PROJECT-RELATED EMISSIONS

This document was prepared pursuant to the SJVAPCD's GAMAQI and SPAL guidelines and provides a cursory review of the Project emissions to demonstrate that it would not exceed established air quality emissions thresholds.

5.1 Short-Term Emissions

Table 5-1 shows the construction emission levels using default CalEEMod factors for construction of 72 single family residential units (see Attachment A).

Construction emission estimates also included the following SJVAPCD's required measures for all projects:

- Water exposed area 3 times per day; and
- Reduce vehicle speed to less than 15 miles per hour.

Based on these anticipated activity levels, the Project construction activities would not exceed construction thresholds (**Table 4-1**). Therefore, construction emissions were found to be less than significant, and no further evaluation is required.

Table 5-1. Construction Emissions

Emissions Source	Pollutant					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
	(tons/year)					
2022 Construction Emissions	0.22	2.10	1.92	0.004	0.22	0.14
2023 Construction Emissions	1.37	1.33	1.56	0.003	0.09	0.07
Max Construction Emissions	1.37	2.10	1.92	0.004	0.21	0.14
SJVAPCD Construction Emissions Thresholds	10	10	100	27	15	15
Is Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

5.2 Long-Term Emissions

Table 5-2 presents the Project's long-term operations emissions generated from mobile, energy, and area sources as well as from water use and waste generation emissions. Most of these emissions impacts are from mobile sources traveling to and from the Project area. The following changes to default values were incorporated during the CalEEMod analysis:

- District Accepted Fleet Mix for Residential Projects

Operational emission estimates also included the following mitigation measures even though the project was less than significant before mitigation:

- Improved Walkability Design;
- Improved Destination Accessibility;
- Increased Transit Accessibility;
- Improved Pedestrian Network;
- Use electric lawnmower, leaf blower, and chainsaw (3% per SJVAPCD).

Table 5-2. Total Project Operational Emissions

Emissions Source	Pollutant					
	ROG	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
	(tons/year)					
Unmitigated						
Operational Emissions	0.88	0.52	3.17	0.008	0.75	0.21
SJVAPCD Operational Emissions Thresholds – non-permitted sources	10	10	100	27	15	15
Is Threshold Exceeded Before Mitigation?	**No**	**No**	**No**	**No**	**No**	**No**
Mitigated						
Operational Emissions	0.87	0.46	2.93	0.007	0.66	0.19
SJVAPCD Operational Emissions Thresholds – non-permitted sources	10	10	100	27	15	15
Is Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

As calculated (see **Appendix A**), the long-term operational emissions associated with the proposed Project would be less than SJVAPCD significance threshold levels and would, therefore, not pose a significant impact to criteria air pollutants. This finding is consistent with the SPAL screening thresholds.

5.3 Greenhouse Gas Emissions

The Project's greenhouse gas (GHG) emissions are primarily from mobile source activities. Not all GHGs exhibit the same ability to induce climate change; as a result, GHG contributions are commonly quantified as carbon dioxide equivalents (CO_2e) (**see Appendix A**). The proposed Project's operational CO_2e emissions were estimated using CalEEMod. These emissions are summarized in **Table 5-3**.

Table 5-3. Estimated Annual Greenhouse Gas Emissions

	CO_2 Emissions metric tons	CH_4 Emissions metric tons	N_2O Emissions metric tons	CO_2e Emissions metric tons
2023 Project Operations	702.07	1.09	0.0355	739.93
2005 BAU	1,162.87	1.19	0.1169	1,227.44
BAU less Project emissions				39.7%

The current inventory and forecast for GHG emissions in the California Air Resources Board's 2008 Climate Change Scoping Plan supports the 2011 IPPC estimates. The 2008 Climate Change Scoping Plan also indicates that GHG emissions will increase to 596.41 million metric tons of CO_2e by 2020. It is widely understood that climate change is a "global" issue and, as such, GHG emissions are a cumulative problem and can only be evaluated as such.

The amount of CO_2 that would be generated by the Project is so small in relation to the California CO_2 equivalent estimates for 2020 (596 million metric tons CO_2e) that it's not possible for the contribution of the project to be cumulatively considerable. Additionally, the Project's GHG emissions are less than the 2005 business as usual emissions for the Project by 487.51 metric tons CO_2e, which is a 39.7% reduction. Therefore, the Project would not generate a cumulatively considerable GHG impact nor would it conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs. The Project will also not conflict with any elements of the California Air Resources Board's 2008 Climate Change Scoping Plan. Therefore, this potential impact is less than significant.

5.4 Potential Impact on Sensitive Receptors

The proposed Project is located west of the intersection of East Clinton Ave and North Armstrong Avenue. Sensitive receptors are defined as areas where young children, chronically ill individuals, the elderly or people who are more sensitive than the general population reside. Schools, hospitals, nursing homes and daycare centers are locations where sensitive receptors would likely reside. **Table 5-4** below shows the nearest sensitive receptors. There are no other known schools, hospitals, or nursing homes within a two-mile radius of the Project.

Based on the predicted operational emissions and activity types, the proposed Project is not expected to affect any on-site or off-site sensitive receptors and is not expected to have any adverse impacts on any known sensitive receptor.

Table 5-4. Sensitive Receptors Located <2 Miles from Project

Receptor	Facility Type	Distance from Project in Miles	Direction from Project
Virginia R. Boris Elementary	K-6	0.59	E
Tovar Residential Care	Assisted Living	0.82	NW
Roger S. Oraze Elementary	K-6	0.93	N
Temperance-Kutner Elementary	K-6	0.95	S
Medina Home Care	Assisted Living	1.31	NW
Janet L. Young Elementary	K-6	1.35	NE
Miramonte Elementary	K-6	1.4	NW
Laverne Place	Assisted Living	1.56	N
Brighten Academy Preschool	K	1.64	NW
Anjaleoni Enterprises Inc	Assisted Living	1.66	N
Christina's Care Home	Assisted Living	1.81	NW
Golden Cares Home	Assisted Living	1.86	NW
Gettysburg Elementary	K-6	1.9	N
Francher Creek Elementary	K-6	1.91	SW
Clovis Christian School	K-12	1.96	NE
California Armenian Home	Assisted Living	1.97	S

5.5 Potential Impacts to Visibility to Nearby Class 1 Areas

It should be noted that visibility impact analyses are not usually conducted for area sources. The recommended analysis methodology was initially intended for stationary sources of emissions which were subject to the Prevention of Significant Deterioration (PSD) requirements in 40 CFR Part 60. Since the Project's emissions are predicted to be significantly less than the PSD threshold levels, an impact at either the Dome Land Wilderness or the Sequoia National Park Areas (the two nearest Class 1 areas to the Project) is extremely unlikely. Therefore, based on the Project's predicted emissions, the Project is not expected to have any adverse impact to visibility at any Class 1 Area.

5.6 Potential Odor Impacts

The proposed Project is a 72 single family unit residential project located near other residential neighborhoods and agricultural land. Residential neighborhoods are not known to be a source of nuisance odors and are not listed in Table 6 of the SJVAPCD's GAMAQI. The Project is therefore not anticipated to have substantial odor impacts. The Project is therefore anticipated to have a less than significant odor impact.

5.7 Ambient Air Quality Impacts

As stated in the of GAMAQI (2015, p 96-97), SJVAPCD has developed screening levels for requiring an Ambient Air Quality Analysis (AAQA). The SJVAPCD recommends that an AAQA be performed for all criteria pollutants when emissions of any criteria pollutant resulting from project construction or operational activities exceed the 100 pounds per day screening level, after compliance with Rule 9510 requirements and implementation of all enforceable mitigation measures.

As shown above in **Table 5-1** and **5-2**, average daily emissions for construction and operational activities associated with this Project would not exceed 100 pounds per day. Therefore, an AAQA is not required for this Project.

5.8 Toxic Air Contaminant (TAC) Impacts

TACs, as defined by the California Health & Safety Code (CH&SC) §44321, are listed in Appendices AI and AII in AB 2588 Air Toxic "Hot Spots" and Assessment Act's Emissions Inventory Criteria and Guideline Regulation document. SJVAPCD's risk management objectives for permitting and CEQA are as follows:

- Minimize health risks from new and modified sources of air pollution.
- Health risks from new and modified sources shall not be significant relative to the background risk levels and other risk levels that are typically accepted throughout the community.
- Avoid unreasonable restrictions on permitting.

The proposed Project would result in emissions of Hazardous Air Pollutants (HAPs) during construction and would be located near existing residents; therefore, an assessment of the potential risk to the population attributable to emissions of hazardous air pollutants from the proposed Project is required. To predict the potential health risk to the population attributable to emissions of HAPs from the proposed Project, ambient air concentrations were predicted with dispersion modeling to arrive at a conservative estimate of increased individual carcinogenic risk that might occur as a result of continuous exposure over the construction period for construction emissions. Similarly, predicted concentrations were used to calculate non-cancer chronic and acute hazard indices (HIs), which are the ratio of expected exposure to acceptable exposure. The basis for evaluating potential health risk is the identification of sources with increased HAPs. HAP emissions from anticipated on-site construction activities were evaluated.

Health risk is determined using the Hotspots Analysis and Reporting Program (HARP2) software distributed by the CARB; HARP2 requires peak 1-hour emission rates and annual-averaged emission rates for all pollutants for each modeling source. Assumptions used to calculate the emission rates for the proposed Project are outlined below.

The most recent version of EPA's AMS/EPA Regulatory Model - AERMOD was used to predict the dispersion of emissions from the proposed Project. The analysis employed all of the regulatory default AERMOD model keyword parameters, including elevated terrain options.

Diesel combustion emissions from diesel on-site construction equipment were modeled as an area source for on-site construction activity on the property. Diesel particulate matter was calculated using CalEEMod for onsite construction equipment. Mitigation for using a clean construction fleet was assumed for the Project emissions. A unit emission rate of 1 grams/second (g/sec) was input to AERMOD for each source. The time-of-day variable emissions rates were applied in AERMOD since construction emissions are expected to be limited to specific work hours provided by the project proponent. This scenario places the highest level of activity and impact in the closest proximity to potential receptors to determine if, at the Project's highest

potential impact, it would present adverse health risks to nearby receptors. Operational emissions from the residential community would not generate HAP emissions.

Because of the densely populated residential neighborhoods and potential future residential developments within close proximity to the Project site a fenceline grid of discrete receptors were placed using three tiers with 25-meter fenceline spacing. The first tier had a segment distance of 100 meters and tier spacing of 25 meters. The second tier had a segment distance of 200 meters and tier spacing of 50 meters. The third tier had a segment distance of 400 meters and tier spacing of 100 meters. A total of 1,136 discrete off-site receptors were analyzed. Any receptors falling on empty lots with a potential to be a future resident was treated as a residential receptor. Elevated terrain options were employed even though there is not complex terrain in the Project area.

SJVAPCD-provided, AERMET processed meteorological datasets for the Bakersfield monitoring station, calendar years 2013 through 2017 was input to AERMOD (SJVAPCD 2018). This was the most recent available dataset available at the time the modeling was conducted. Rural dispersion parameters were used because the operation and the majority of the land surrounding the facility is considered "rural" under the Auer land use classification method (Auer 1978).

Plot files generated by AERMOD were uploaded to the Air Dispersion Modeling and Risk Assessment Tool (ADMRT v21081) program in the Hotspots Analysis and Reporting Program Version 2 (HARP 2) (CARB 2021). ADMRT post-processing was used to assess the potential for excess cancer risk and chronic and acute noncancer effects using the most recent health effects data from the California EPA Office of Environmental Health Hazard Assessment (OEHHA). HARP2 site parameters were set for the mandatory minimum pathways of inhalation, soil ingestion, dermal, and mother's milk for residential receptors and inhalation, soil ingestion, and dermal for worker receptors. Risk reports were generated using the derived OEHHA analysis method for carcinogenic risk and non-carcinogenic chronic and acute risk. Site parameters are included in the HARP2 output files. Total cancer risk was predicted for each receptor. A hazard index was computed for chronic non-cancer health effects for each applicable endpoint and each receptor. A hazard index for acute non-cancer health effects was not computed since DPM does not have a risk exposure level for acute risk.

SJVAPCD has set the level of significance for carcinogenic risk at twenty in one million, which is understood as the possibility of causing twenty additional cancer cases in a population of one million people. The level of significance for chronic non-cancer risk is a hazard index of 1.0. All receptors were modeled with a 2-year exposure for the construction activities.

The carcinogenic risk and the health hazard index (HI) for chronic non-cancer risk at the point of maximum impact (PMI) do not exceed the significance levels of twenty in one million (20E-06) and 1.0, respectively for the proposed Project. The PMIs are identified by receptor location and risk and are provided in **Table 5-5**. The electronic AERMOD and HARP2 output files are provided in Appendix B.

Table 5-5. Potential Maximum Health Risk Impacts

	Value	UTM East	UTM North
Excess Cancer Risk	1.35E-05	261319.36	4072702.03
Chronic Hazard Index	7.89E-03	261319.36	4072702.03

As shown above in **Table 5-5**, the maximum predicted cancer risk for the proposed Project is 1.35E-05. The maximum chronic non-cancer hazard index for the proposed Project is 7.89E-03. Since the PMI remained below the significance threshold for cancer and chronic risk, this Project would not have an adverse effect to any of the surrounding communities.

The potential health risk attributable to the proposed Project is determined to be less than significant based on the following conclusions:

1. Potential carcinogenic risk from the proposed Project is below the significance level of twenty in a million at each of the modeled receptors; and
2. The hazard index for the potential chronic non-cancer risk from the proposed Project is below the significance level of 1.0 at each of the modeled receptors.
3. The hazard index for the potential acute non-cancer risk was not calculated since there is no acute risk associated with DPM emission; therefore, the proposed Project is considered below the significance level.

Therefore, potential risk to the population attributable to emissions of HAPs from the proposed Project would be less than significant.

5.9 Cumulative Impacts

Cumulative impacts were also evaluated; however, cumulative emissions were not quantified because no other tentative projects were found within a one-mile radius of the Proposed Project that provided enough project detail information to accurately estimate emissions. Owing to the inherently cumulative nature of air quality impacts, the threshold for whether a project would make a cumulatively considerable contribution to a significant cumulative impact is currently based on whether the proposed Project would exceed established project-level thresholds. As such, a qualitative evaluation of the cumulative projects supports a finding that the Project's contribution would not be cumulatively considerable because the proposed Project's incremental emissions increase would be less than significant.

6. CONCLUSIONS

Based on the criteria established by the SJVAPCD's GAMAQI and SPAL guidelines, the proposed Project does not meet the minimum standards to require a full Air Quality Impact Analysis. Furthermore, the Project as proposed would not exceed the SJVAPCD's criteria air pollutant emission levels and would generate *less than significant air quality impacts*.

7. REFERENCES

California Environmental Quality Act (CEQA). 2019. (Public Resources Code 21000 - 21189) and CEQA Guidelines (California Code of Regulations Title 14, Division 6, Chapter 3, Sections 15000 – 15387).

---------. 2019. CEQA, Appendix G – Environmental Checklist Form, Final Text.

California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model tm (CalEEMod), version 2020.4.0.

----------. 2016. "Air Toxic Hot Spots" Facility Prioritization Guidelines, Revised 2016.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2020. Small Project Analysis Level (SPAL) Memorandum. November 13, 2020. http://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI-SPAL.PDF

----------. 2015. Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI). March 19, 2015. http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf

----------. 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. December 17, 2009.

APPENDIX A. CALEEMOD EMISSIONS ESTIMATES OUTPUT FILES

TRACT 6400 SPAL - Fresno County, Annual

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

TRACT 6400 SPAL

Fresno County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	72.00	Dwelling Unit	12.65	129,600.00	206

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	45
Climate Zone	3			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Provided Acreage

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Fleet Mix - District Accepted Fleet Mix for Residential Projects - Year 2023

Demolition - Estimated from google earth

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFleetMix	HHD	0.02	0.02

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

tblFleetMix	LDA	0.51	0.53
tblFleetMix	LDT1	0.05	0.21
tblFleetMix	LDT2	0.18	0.17
tblFleetMix	LHD1	0.03	1.1000e-003
tblFleetMix	LHD2	7.0060e-003	9.0000e-004
tblFleetMix	MCY	0.02	2.5000e-003
tblFleetMix	MDV	0.16	0.06
tblFleetMix	MH	3.0900e-003	1.9000e-003
tblFleetMix	MHD	0.01	8.5000e-003
tblFleetMix	OBUS	7.1700e-004	0.00
tblFleetMix	SBUS	1.5290e-003	4.0000e-004
tblFleetMix	UBUS	2.9100e-004	4.3000e-003
tblLandUse	LotAcreage	23.38	12.65

2.0 Emissions Summary

TRACT 6400 SPAL - Fresno County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2215	2.1018	1.9207	3.6200e-003	0.2700	0.1004	0.3704	0.1130	0.0937	0.2067	0.0000	316.0339	316.0339	0.0797	2.0900e-003	318.6516
2023	1.3656	1.3280	1.5597	2.7600e-003	0.0230	0.0635	0.0865	6.2100e-003	0.0597	0.0659	0.0000	240.1222	240.1222	0.0524	2.3200e-003	242.1239
Maximum	**1.3656**	**2.1018**	**1.9207**	**3.6200e-003**	**0.2700**	**0.1004**	**0.3704**	**0.1130**	**0.0937**	**0.2067**	**0.0000**	**316.0339**	**316.0339**	**0.0797**	**2.3200e-003**	**318.6516**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2215	2.1018	1.9207	3.6200e-003	0.1187	0.1004	0.2192	0.0477	0.0937	0.1414	0.0000	316.0336	316.0336	0.0797	2.0900e-003	318.6512
2023	1.3656	1.3280	1.5597	2.7600e-003	0.0230	0.0635	0.0865	6.2100e-003	0.0597	0.0659	0.0000	240.1220	240.1220	0.0524	2.3200e-003	242.1236
Maximum	**1.3656**	**2.1018**	**1.9207**	**3.6200e-003**	**0.1187**	**0.1004**	**0.2192**	**0.0477**	**0.0937**	**0.1414**	**0.0000**	**316.0336**	**316.0336**	**0.0797**	**2.3200e-003**	**318.6512**

TRACT 6400 SPAL - Fresno County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**51.62**	**0.00**	**33.10**	**54.78**	**0.00**	**23.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2022**	**6-30-2022**	1.1499	1.1499
2	**7-1-2022**	**9-30-2022**	0.5884	0.5884
3	**10-1-2022**	**12-31-2022**	0.5892	0.5892
4	**1-1-2023**	**3-31-2023**	0.5293	0.5293
5	**4-1-2023**	**6-30-2023**	0.5345	0.5345
6	**7-1-2023**	**9-30-2023**	1.0988	1.0988
		Highest	1.1499	1.1499

TRACT 6400 SPAL - Fresno County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6471	0.0331	0.5462	2.0000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	32.0642	32.0642	1.4400e-003	5.7000e-004	32.2706
Energy	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	145.4772	145.4772	0.0104	2.7300e-003	146.5513
Mobile	0.2206	0.4096	2.5882	7.0400e-003	0.7333	5.1600e-003	0.7385	0.1955	4.8100e-003	0.2003	0.0000	665.1912	665.1912	0.0500	0.0331	676.3085
Waste						0.0000	0.0000		0.0000	0.0000	15.0538	0.0000	15.0538	0.8897	0.0000	37.2952
Water						0.0000	0.0000		0.0000	0.0000	1.4883	3.3063	4.7946	0.1534	3.6700e-003	9.7243
Total	**0.8770**	**0.5224**	**3.1683**	**7.7500e-003**	**0.7333**	**0.0168**	**0.7501**	**0.1955**	**0.0164**	**0.2119**	**16.5421**	**846.0389**	**862.5810**	**1.1048**	**0.0401**	**902.1498**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6437	6.1300e-003	0.5309	3.0000e-005		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003	0.0000	0.8654	0.8654	8.3000e-004	0.0000	0.8861
Energy	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.1835	92.1835	1.7400e-003	1.6900e-003	92.7306
Mobile	0.2159	0.3749	2.3617	6.2300e-003	0.6468	4.6100e-003	0.6514	0.1724	4.3000e-003	0.1767	0.0000	589.1768	589.1768	0.0458	0.0301	599.2943
Waste						0.0000	0.0000		0.0000	0.0000	15.0538	0.0000	15.0538	0.8897	0.0000	37.2952
Water						0.0000	0.0000		0.0000	0.0000	1.4883	3.3063	4.7946	0.1534	3.6700e-003	9.7243
Total	**0.8689**	**0.4608**	**2.9266**	**6.7700e-003**	**0.6468**	**0.0140**	**0.6608**	**0.1724**	**0.0137**	**0.1861**	**16.5421**	**685.5319**	**702.0740**	**1.0914**	**0.0355**	**739.9304**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.93**	**11.80**	**7.63**	**12.65**	**11.80**	**16.42**	**11.90**	**11.80**	**16.52**	**12.17**	**0.00**	**18.97**	**18.61**	**1.21**	**11.52**	**17.98**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/28/2022	5	20	
2	Site Preparation	Site Preparation	4/29/2022	5/12/2022	5	10	
3	Grading	Grading	5/13/2022	6/23/2022	5	30	

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

4	Building Construction	Building Construction	6/24/2022	8/17/2023	5	300	
5	Paving	Paving	8/18/2023	9/14/2023	5	20	
6	Architectural Coating	Architectural Coating	9/15/2023	10/12/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 262,440; Residential Outdoor: 87,480; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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

Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	26.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0116	0.0000	0.0116	1.7500e-003	0.0000	1.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0116**	**0.0124**	**0.0240**	**1.7500e-003**	**0.0116**	**0.0133**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.4000e-004	3.8800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9805	0.9805	3.0000e-005	3.0000e-005	0.9901
Total	**5.0000e-004**	**3.4000e-004**	**3.8800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9805**	**0.9805**	**3.0000e-005**	**3.0000e-005**	**0.9901**

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5100e-003	0.0000	4.5100e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**4.5100e-003**	**0.0124**	**0.0169**	**6.8000e-004**	**0.0116**	**0.0122**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.4000e-004	3.8800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9805	0.9805	3.0000e-005	3.0000e-005	0.9901
Total	**5.0000e-004**	**3.4000e-004**	**3.8800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9805**	**0.9805**	**3.0000e-005**	**3.0000e-005**	**0.9901**

TRACT 6400 SPAL - Fresno County, Annual

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0983**	**8.0600e-003**	**0.1064**	**0.0505**	**7.4200e-003**	**0.0579**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.3300e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5883	0.5883	2.0000e-005	2.0000e-005	0.5941
Total	**3.0000e-004**	**2.1000e-004**	**2.3300e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5883**	**0.5883**	**2.0000e-005**	**2.0000e-005**	**0.5941**

TRACT 6400 SPAL - Fresno County, Annual

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

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0383**	**8.0600e-003**	**0.0464**	**0.0197**	**7.4200e-003**	**0.0271**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.3300e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5883	0.5883	2.0000e-005	2.0000e-005	0.5941
Total	**3.0000e-004**	**2.1000e-004**	**2.3300e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5883**	**0.5883**	**2.0000e-005**	**2.0000e-005**	**0.5941**

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

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
Total	**0.0544**	**0.5827**	**0.4356**	**9.3000e-004**	**0.1381**	**0.0245**	**0.1626**	**0.0548**	**0.0226**	**0.0774**	**0.0000**	**81.8019**	**81.8019**	**0.0265**	**0.0000**	**82.4633**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.9000e-004	7.7500e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9609	1.9609	6.0000e-005	6.0000e-005	1.9802
Total	**1.0100e-003**	**6.9000e-004**	**7.7500e-003**	**2.0000e-005**	**2.4000e-003**	**1.0000e-005**	**2.4100e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.9609**	**1.9609**	**6.0000e-005**	**6.0000e-005**	**1.9802**

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

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0538	0.0000	0.0538	0.0214	0.0000	0.0214	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
Total	**0.0544**	**0.5827**	**0.4356**	**9.3000e-004**	**0.0538**	**0.0245**	**0.0784**	**0.0214**	**0.0226**	**0.0439**	**0.0000**	**81.8018**	**81.8018**	**0.0265**	**0.0000**	**82.4632**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.9000e-004	7.7500e-003	2.0000e-005	2.4000e-003	1.0000e-005	2.4100e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9609	1.9609	6.0000e-005	6.0000e-005	1.9802
Total	**1.0100e-003**	**6.9000e-004**	**7.7500e-003**	**2.0000e-005**	**2.4000e-003**	**1.0000e-005**	**2.4100e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.9609**	**1.9609**	**6.0000e-005**	**6.0000e-005**	**1.9802**

TRACT 6400 SPAL - Fresno County, Annual

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	1.0619	1.1127	1.8300e-003		0.0550	0.0550		0.0518	0.0518	0.0000	157.5732	157.5732	0.0378	0.0000	158.5169
Total	**0.1160**	**1.0619**	**1.1127**	**1.8300e-003**		**0.0550**	**0.0550**		**0.0518**	**0.0518**	**0.0000**	**157.5732**	**157.5732**	**0.0378**	**0.0000**	**158.5169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e-003	0.0293	8.3100e-003	1.1000e-004	3.6100e-003	3.2000e-004	3.9200e-003	1.0400e-003	3.0000e-004	1.3400e-003	0.0000	10.8631	10.8631	8.0000e-005	1.6400e-003	11.3529
Worker	5.9500e-003	4.0500e-003	0.0457	1.3000e-004	0.0141	7.0000e-005	0.0142	3.7600e-003	7.0000e-005	3.8200e-003	0.0000	11.5562	11.5562	3.8000e-004	3.5000e-004	11.6702
Total	**7.0700e-003**	**0.0334**	**0.0540**	**2.4000e-004**	**0.0177**	**3.9000e-004**	**0.0181**	**4.8000e-003**	**3.7000e-004**	**5.1600e-003**	**0.0000**	**22.4193**	**22.4193**	**4.6000e-004**	**1.9900e-003**	**23.0231**

TRACT 6400 SPAL - Fresno County, Annual

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

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	1.0619	1.1127	1.8300e-003		0.0550	0.0550		0.0518	0.0518	0.0000	157.5730	157.5730	0.0378	0.0000	158.5167
Total	**0.1160**	**1.0619**	**1.1127**	**1.8300e-003**		**0.0550**	**0.0550**		**0.0518**	**0.0518**	**0.0000**	**157.5730**	**157.5730**	**0.0378**	**0.0000**	**158.5167**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e-003	0.0293	8.3100e-003	1.1000e-004	3.6100e-003	3.2000e-004	3.9200e-003	1.0400e-003	3.0000e-004	1.3400e-003	0.0000	10.8631	10.8631	8.0000e-005	1.6400e-003	11.3529
Worker	5.9500e-003	4.0500e-003	0.0457	1.3000e-004	0.0141	7.0000e-005	0.0142	3.7600e-003	7.0000e-005	3.8200e-003	0.0000	11.5562	11.5562	3.8000e-004	3.5000e-004	11.6702
Total	**7.0700e-003**	**0.0334**	**0.0540**	**2.4000e-004**	**0.0177**	**3.9000e-004**	**0.0181**	**4.8000e-003**	**3.7000e-004**	**5.1600e-003**	**0.0000**	**22.4193**	**22.4193**	**4.6000e-004**	**1.9900e-003**	**23.0231**

TRACT 6400 SPAL - Fresno County, Annual

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1290	1.1796	1.3320	2.2100e-003		0.0574	0.0574		0.0540	0.0540	0.0000	190.0799	190.0799	0.0452	0.0000	191.2103
Total	**0.1290**	**1.1796**	**1.3320**	**2.2100e-003**		**0.0574**	**0.0574**		**0.0540**	**0.0540**	**0.0000**	**190.0799**	**190.0799**	**0.0452**	**0.0000**	**191.2103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0288	8.6400e-003	1.3000e-004	4.3500e-003	1.8000e-004	4.5300e-003	1.2600e-003	1.8000e-004	1.4300e-003	0.0000	12.6166	12.6166	7.0000e-005	1.9000e-003	13.1842
Worker	6.6000e-003	4.2800e-003	0.0504	1.5000e-004	0.0170	8.0000e-005	0.0171	4.5300e-003	8.0000e-005	4.6100e-003	0.0000	13.5724	13.5724	4.1000e-004	3.9000e-004	13.6985
Total	**7.3000e-003**	**0.0331**	**0.0591**	**2.8000e-004**	**0.0214**	**2.6000e-004**	**0.0217**	**5.7900e-003**	**2.6000e-004**	**6.0400e-003**	**0.0000**	**26.1890**	**26.1890**	**4.8000e-004**	**2.2900e-003**	**26.8827**

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1290	1.1796	1.3320	2.2100e-003		0.0574	0.0574		0.0540	0.0540	0.0000	190.0797	190.0797	0.0452	0.0000	191.2101
Total	**0.1290**	**1.1796**	**1.3320**	**2.2100e-003**		**0.0574**	**0.0574**		**0.0540**	**0.0540**	**0.0000**	**190.0797**	**190.0797**	**0.0452**	**0.0000**	**191.2101**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0288	8.6400e-003	1.3000e-004	4.3500e-003	1.8000e-004	4.5300e-003	1.2600e-003	1.8000e-004	1.4300e-003	0.0000	12.6166	12.6166	7.0000e-005	1.9000e-003	13.1842
Worker	6.6000e-003	4.2800e-003	0.0504	1.5000e-004	0.0170	8.0000e-005	0.0171	4.5300e-003	8.0000e-005	4.6100e-003	0.0000	13.5724	13.5724	4.1000e-004	3.9000e-004	13.6985
Total	**7.3000e-003**	**0.0331**	**0.0591**	**2.8000e-004**	**0.0214**	**2.6000e-004**	**0.0217**	**5.7900e-003**	**2.6000e-004**	**6.0400e-003**	**0.0000**	**26.1890**	**26.1890**	**4.8000e-004**	**2.2900e-003**	**26.8827**

TRACT 6400 SPAL - Fresno County, Annual

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0269**	**20.0269**	**6.4800e-003**	**0.0000**	**20.1888**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.0000e-004	3.5500e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9638
Total	**4.6000e-004**	**3.0000e-004**	**3.5500e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9549**	**0.9549**	**3.0000e-005**	**3.0000e-005**	**0.9638**

TRACT 6400 SPAL - Fresno County, Annual

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0268**	**20.0268**	**6.4800e-003**	**0.0000**	**20.1888**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.0000e-004	3.5500e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9638
Total	**4.6000e-004**	**3.0000e-004**	**3.5500e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9549**	**0.9549**	**3.0000e-005**	**3.0000e-005**	**0.9638**

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	**1.2183**	**0.0130**	**0.0181**	**3.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.5000e-004**	**0.0000**	**2.5571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3183	0.3183	1.0000e-005	1.0000e-005	0.3213
Total	**1.5000e-004**	**1.0000e-004**	**1.1800e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3183**	**0.3183**	**1.0000e-005**	**1.0000e-005**	**0.3213**

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	**1.2183**	**0.0130**	**0.0181**	**3.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.5000e-004**	**0.0000**	**2.5571**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1800e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3183	0.3183	1.0000e-005	1.0000e-005	0.3213
Total	**1.5000e-004**	**1.0000e-004**	**1.1800e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3183**	**0.3183**	**1.0000e-005**	**1.0000e-005**	**0.3213**

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2159	0.3749	2.3617	6.2300e-003	0.6468	4.6100e-003	0.6514	0.1724	4.3000e-003	0.1767	0.0000	589.1768	589.1768	0.0458	0.0301	599.2943
Unmitigated	0.2206	0.4096	2.5882	7.0400e-003	0.7333	5.1600e-003	0.7385	0.1955	4.8100e-003	0.2003	0.0000	665.1912	665.1912	0.0500	0.0331	676.3085

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	679.68	686.88	615.60	1,967,432	1,735,275
Total	679.68	686.88	615.60	1,967,432	1,735,275

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	48.40	15.90	35.70	86	11	3

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.530500	0.205800	0.167300	0.055000	0.001100	0.000900	0.008500	0.021800	0.000000	0.004300	0.002500	0.000400	0.001900

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-0.1735	-0.1735	0.0000	0.0000	-0.1752
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.1202	53.1202	8.5900e-003	1.0400e-003	53.6455
NaturalGas Mitigated	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
NaturalGas Unmitigated	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.7307e+006	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
Total		**9.3300e-003**	**0.0798**	**0.0339**	**5.1000e-004**		**6.4500e-003**	**6.4500e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**92.3569**	**92.3569**	**1.7700e-003**	**1.6900e-003**	**92.9058**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.7307e+006	9.3300e-003	0.0798	0.0339	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
Total		**9.3300e-003**	**0.0798**	**0.0339**	**5.1000e-004**		**6.4500e-003**	**6.4500e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**92.3569**	**92.3569**	**1.7700e-003**	**1.6900e-003**	**92.9058**

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	574125	53.1202	8.5900e-003	1.0400e-003	53.6455
Total		**53.1202**	**8.5900e-003**	**1.0400e-003**	**53.6455**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	-1874.88	-0.1735	0.0000	0.0000	-0.1752
Total		**-0.1735**	**0.0000**	**0.0000**	**-0.1752**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

TRACT 6400 SPAL - Fresno County, Annual

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

Use Electric Leafblower

Use Electric Chainsaw

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6437	6.1300e-003	0.5309	3.0000e-005		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003	0.0000	0.8654	0.8654	8.3000e-004	0.0000	0.8861
Unmitigated	0.6471	0.0331	0.5462	2.0000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	32.0642	32.0642	1.4400e-003	5.7000e-004	32.2706

TRACT 6400 SPAL - Fresno County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.1500e-003	0.0269	0.0115	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.1909	31.1909	6.0000e-004	5.7000e-004	31.3763
Landscaping	0.0161	6.1600e-003	0.5347	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8733	0.8733	8.4000e-004	0.0000	0.8943
Total	**0.6471**	**0.0331**	**0.5462**	**2.0000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**32.0642**	**32.0642**	**1.4400e-003**	**5.7000e-004**	**32.2706**

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0159	6.1300e-003	0.5309	3.0000e-005		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003	0.0000	0.8654	0.8654	8.3000e-004	0.0000	0.8861
Total	**0.6437**	**6.1300e-003**	**0.5309**	**3.0000e-005**		**2.9400e-003**	**2.9400e-003**		**2.9400e-003**	**2.9400e-003**	**0.0000**	**0.8654**	**0.8654**	**8.3000e-004**	**0.0000**	**0.8861**

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7946	0.1534	3.6700e-003	9.7243
Unmitigated	4.7946	0.1534	3.6700e-003	9.7243

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Total		**4.7946**	**0.1534**	**3.6700e-003**	**9.7243**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Total		**4.7946**	**0.1534**	**3.6700e-003**	**9.7243**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.0538	0.8897	0.0000	37.2952
Unmitigated	15.0538	0.8897	0.0000	37.2952

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	74.16	15.0538	0.8897	0.0000	37.2952
Total		**15.0538**	**0.8897**	**0.0000**	**37.2952**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	74.16	15.0538	0.8897	0.0000	37.2952
Total		**15.0538**	**0.8897**	**0.0000**	**37.2952**

9.0 Operational Offroad

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

TRACT 6400 SPAL - BAU

Fresno County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	72.00	Dwelling Unit	12.65	129,600.00	206

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	45
Climate Zone	3			**Operational Year**	2005
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Provided Acreage

Construction Phase - Operational Run Only

Trips and VMT - Operational Run Only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	PhaseEndDate	5/18/2005	3/24/2004
tblLandUse	LotAcreage	23.38	12.65
tblTripsAndVMT	VendorTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	26.00	0.00
tblWoodstoves	NumberCatalytic	12.65	0.00

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

tblWoodstoves	NumberNoncatalytic	12.65	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2004											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum											**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2004											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum											**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	32.0642	32.0642	2.0000e-003	5.7000e-004	32.2845
Energy											0.0000	145.4772	145.4772	0.0104	2.7300e-003	146.5513
Mobile											0.0000	965.4820	965.4820	0.1335	0.1099	1,001.5806
Waste											15.0538	0.0000	15.0538	0.8897	0.0000	37.2952
Water											1.4883	3.3063	4.7946	0.1534	3.6700e-003	9.7243
Total											**16.5421**	**1,146.3296**	**1,162.8717**	**1.1889**	**0.1169**	**1,227.4359**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	32.0642	32.0642	2.0000e-003	5.7000e-004	32.2845
Energy											0.0000	145.4772	145.4772	0.0104	2.7300e-003	146.5513
Mobile											0.0000	965.4820	965.4820	0.1335	0.1099	1,001.5806
Waste											15.0538	0.0000	15.0538	0.8897	0.0000	37.2952
Water											1.4883	3.3063	4.7946	0.1534	3.6700e-003	9.7243
Total											**16.5421**	**1,146.3296**	**1,162.8717**	**1.1889**	**0.1169**	**1,227.4359**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/25/2004	3/24/2004	5	0	

Acres of Grading (Site Preparation Phase): 0

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

3.2 Building Construction - 2004

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

3.2 Building Construction - 2004

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	965.4820	965.4820	0.1335	0.1099	1,001.5806
Unmitigated											0.0000	965.4820	965.4820	0.1335	0.1099	1,001.5806

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	679.68	686.88	615.60	1,967,432	1,967,432
Total	679.68	686.88	615.60	1,967,432	1,967,432

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	48.40	15.90	35.70	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.477591	0.081668	0.164575	0.168109	0.036290	0.006715	0.016687	0.017024	0.000893	0.000307	0.021194	0.000966	0.007982

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	53.1202	53.1202	8.5900e-003	1.0400e-003	53.6455
Electricity Unmitigated											0.0000	53.1202	53.1202	8.5900e-003	1.0400e-003	53.6455
NaturalGas Mitigated											0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
NaturalGas Unmitigated											0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.7307e+006											0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
Total												**0.0000**	**92.3569**	**92.3569**	**1.7700e-003**	**1.6900e-003**	**92.9058**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.7307e+006											0.0000	92.3569	92.3569	1.7700e-003	1.6900e-003	92.9058
Total												**0.0000**	**92.3569**	**92.3569**	**1.7700e-003**	**1.6900e-003**	**92.9058**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	574125	53.1202	8.5900e-003	1.0400e-003	53.6455
Total		**53.1202**	**8.5900e-003**	**1.0400e-003**	**53.6455**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	574125	53.1202	8.5900e-003	1.0400e-003	53.6455
Total		**53.1202**	**8.5900e-003**	**1.0400e-003**	**53.6455**

6.0 Area Detail

6.1 Mitigation Measures Area

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	32.0642	32.0642	2.0000e-003	5.7000e-004	32.2845
Unmitigated											0.0000	32.0642	32.0642	2.0000e-003	5.7000e-004	32.2845

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	31.1909	31.1909	6.0000e-004	5.7000e-004	31.3763
Landscaping											0.0000	0.8733	0.8733	1.4000e-003	0.0000	0.9082
Total											**0.0000**	**32.0642**	**32.0642**	**2.0000e-003**	**5.7000e-004**	**32.2845**

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	31.1909	31.1909	6.0000e-004	5.7000e-004	31.3763
Landscaping											0.0000	0.8733	0.8733	1.4000e-003	0.0000	0.9082
Total											**0.0000**	**32.0642**	**32.0642**	**2.0000e-003**	**5.7000e-004**	**32.2845**

7.0 Water Detail

7.1 Mitigation Measures Water

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7946	0.1534	3.6700e-003	9.7243
Unmitigated	4.7946	0.1534	3.6700e-003	9.7243

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Total		**4.7946**	**0.1534**	**3.6700e-003**	**9.7243**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Total		**4.7946**	**0.1534**	**3.6700e-003**	**9.7243**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.0538	0.8897	0.0000	37.2952
Unmitigated	15.0538	0.8897	0.0000	37.2952

TRACT 6400 SPAL - BAU - Fresno County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	74.16	15.0538	0.8897	0.0000	37.2952
Total		**15.0538**	**0.8897**	**0.0000**	**37.2952**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	74.16	15.0538	0.8897	0.0000	37.2952
Total		**15.0538**	**0.8897**	**0.0000**	**37.2952**

9.0 Operational Offroad

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX B. HEALTH RISK ASSEMENT MODELING

(Electronic Files)

Appendix B

BIOLOGICAL RESOURCES EVALUATION

CITY OF FRESNO

ROCHA PROPERTY

TRACT 6400 PROJECT



APRIL 2022

BIOLOGICAL RESOURCES EVALUATION

ROCHA PROPERTY
TRACT 6400 PROJECT

Prepared for:

De Young Properties – Team 5
677 W. Palmdon Drive, Suite 208
Fresno, CA 93704
Contact Person: Brandon De Young
Executive Vice President
Phone: (559) 435-0900

Consultant:

5080 California Avenue, Suite 220
Bakersfield, CA 93309
Contact: Jaymie Brauer
Phone: (661) 616-2600
Fax: (661) 616-5970

April 2022

© Copyright by Quad Knopf, Inc.
Unauthorized use prohibited.
Project #210457

Table of Contents

Executive Summary *1*

SECTION 1 - Introduction *1-1*

1.1 - Project Location 1-1
1.2 - Project Description 1-1
1.3 - Purpose, Goals, and Objectives for this Report 1-1

SECTION 2 - Methods *2-1*

2.1 - Definition of Biological Study Area 2-1
2.2 - Literature Review and Database Analysis 2-1
2.3 - Reconnaissance-Level Field Surveys 2-3

SECTION 3 - Environmental Setting *3-1*

3.1 - Topography 3-1
3.2 - Climate 3-1
3.3 - Land Use 3-1
3.4 - Soils 3-2
    3.4.1 - Ramona Soil Series 3-2
3.5 - Hydrology 3-2
3.6 - General Biological Conditions 3-4

SECTION 4 - Findings *4-1*

4.1 - Sensitive Natural Communities 4-1
    4.1.1 - Results of Literature Review and Database Searches 4-1
    4.1.2 - Presence of Sensitive Natural Communities 4-1
4.2 - Special-Status Plants 4-1
    4.2.1 - Results of Literature Review and Database Searches 4-1
    4.2.2 - Presence of Special-Status Plants 4-2
4.3 - Special-Status Wildlife 4-2
    4.3.1 - Results of Literature Review and Database Searches 4-2
    4.3.2 - Presence of Special-Status Wildlife 4-4
4.4 - Nesting Migratory Birds and Raptors 4-6
    4.4.1 - Presence of Nesting Birds and Raptors 4-6
4.5 - Critical Habitat, Movement Corridors, and Linkages 4-6
    4.5.1 - Presence of Critical Habitat 4-6
    4.5.2 - Presence of Movement Corridors and Linkages 4-8
4.6 - Wetlands and Waters 4-8
    4.6.1 - Presence of Wetlands and Other Waters 4-8

SECTION 5 - Potential Project Impacts *5-1*

5.1 - Potential Impacts to Sensitive Vegetation Communities 5-1
5.2 - Potential Impacts to Special-Status Plant Species 5-1
5.3 - Potential Impacts to Special-Status Wildlife Species 5-1
5.4 - Potential Impacts to Nesting Birds and Raptors 5-1
5.5 - Potential Impacts to Critical Habitat, Movement Corridors, and Linkages 5-2
5.5.1 - Potential Impacts to Critical Habitat 5-2
5.5.2 - Potential Impacts to Movement Corridors and Linkages 5-2
5.6 - Potential Impacts to Wetlands and Waters 5-2

SECTION 6 - Recommendations *6-1*

SECTION 7 - Summary and Conclusion *7-1*

SECTION 8 - References *8-1*

Appendices

Appendix A – Special-Status Species Database Search Results
Appendix B – Representative Photographs
Appendix C – Plant and Wildlife Species Observed on the Project Site

List of Figures

Figure 1-1 Regional Map 1-2
Figure 1-2 Project Vicinity Map 1-3
Figure 2-1 Biological Study Area 2-2
Figure 3-1 NWI and NHD Records of Aquatic Resources 3-3
Figure 4-1 Mapped Critical Habitat in the Project Vicinity 4-7

List of Tables

Table 4-1 Special-Status Plant Species Occurring in the Region, ... 4-1
Table 4-2 Special-Status Wildlife Species Occurring in the Region, ... 4-3

EXECUTIVE SUMMARY

This Biological Resource Evaluation (BRE) report provides the results of a biological survey conducted by Quad Knopf, Inc. (QK) for the Rocha Property Tract Project (Project). In order to comply with the California Environmental Quality Act (CEQA) and requirements for approval of a Vesting Tentative Subdivision Map by the City of Fresno, a biological evaluation was conducted to identify the potential for sensitive biological resources to occur on or near the Project.

The Project is situated on approximately 12.65 acres on the southwest corner of the intersection of East Clinton Avenue and North Armstrong Avenue within the City of Fresno, Fresno County, California. The Project will consist of the development of 72 lots for the construction of single-family homes and associated infrastructure. The Project will require the demolition and removal of existing structures that are currently on the Project site. The Project site has also been used for agricultural purposes for many years, and at the time of the survey, it was densely vegetated with non-native plant species. Surrounding land use is mainly urban.

A review of available literature and agency databases was conducted to obtain information on the occurrences of natural communities and special-status plant and wildlife species known to occur in the vicinity of the Project site. QK conducted a biological reconnaissance survey on March 15, 2022, to determine the locations and extent of land use for natural vegetation communities, determine the potential for occurrences of special-status plant and wildlife species, and verify the presence of wetlands and State and or federal jurisdictional waters. No special-status plant species or diagnostic sign of special-status wildlife species were observed during the site survey, and no wetlands or other sensitive biological resources were observed on or near the Project site.

Based on the literature and database search and the results of the survey, there is potential for three special-status wildlife species to occur on the site: San Joaquin kit fox (*Vulpes macrotis mutica*), American badger (*Taxidea taxus*), and Swainson's hawk (*Buteo swainsoni*). Because of the historical disturbance of the Project site, direct impacts to most special-status wildlife species are not expected to occur. Kit foxes and American badger may pass through as transients, and Swainson's hawk could nest and forage in the vicinity of the Project site. There is potential for nesting migratory birds and other raptors species to occur on or near the Project site and surrounding areas. With the implementation of Best Management Practices (BMPs) and recommended avoidance measures, the Project is expected to have limited impacts to special-status wildlife species and migratory birds and raptors. The Project will not have any impacts to special-status plant species, sensitive natural communities, wetlands, or water features.

SECTION 1 - INTRODUCTION

De Young Properties (Applicant) proposes to construct a new residential development in the City of Fresno (City), Fresno County, California. The Rocha Property Tract Project (Project) will provide additional housing within the City. To comply with the California Environmental Quality Act (CEQA) and meet the requirements for approval of a Vesting Tentative Subdivision Map by the City Planning and Development Department, a biological evaluation was conducted to identify the potential for sensitive biological resources to occur on or near the Project site. This Biological Resource Evaluation (BRE) provides the basic biological information requested by De Young Properties.

1.1 - Project Location

The Project covers approximately 12.65 acres and is located on the southwest corner of the intersection of East Clinton Avenue and North Armstrong Avenue, on Assessor Parcel Number (APN) 574-050-02 (Figures 1-1 and 1-2). The Project site is situated among urban development and is adjacent to active construction for new housing developments to the north and south, residential properties to the west, and residential and commercial (Green Hills Nursery) properties to the east. The Project site is within the *Clovis* United States Geological Survey (USGS) 7.5-minute quadrangle, in Section 27 of Township 13 South, Range 21 East, Mount Diablo Base and Meridian.

1.2 - Project Description

The Project will comprise several components. Several existing on-site structures will be demolished and removed, including agricultural structures, wells, septic tanks, and trees. The Project will include 72 lots for the construction of single-family homes and associated infrastructure, including paved roads and various utility connections. Primary access to the development will be from East Clinton Avenue and North Armstrong Avenue.

1.3 - Purpose, Goals, and Objectives for this Report

The primary focus of this report is to provide the City with an understanding of how the Project would comply with CEQA and comply with the requirements needed for approval of a Conditional Use Permit for the construction of the Project. This BRE provides information about sensitive biological resources occurring or potentially occurring on and in the vicinity of the Project site, including sensitive natural communities, special-status plant and wildlife species, wildlife movement corridors and nursery sites, and State and federal jurisdictional wetlands and waters. Information on these topics was obtained by conducting a desktop review of existing databases and literature, then verifying and augmenting those findings by conducting an on-site sensitive biological resource survey.



Figure 1-1
Regional Map
Rocha Property Tract 6400 Project
Fresno County, California



Figure 1-2
Project Vicinity Map
Rocha Property Tract 6400 Project
Fresno County, California

SECTION 2 - METHODS

2.1 - Definition of Biological Study Area

The Biological Study Area (BSA) consists of the entire 12.65-acre Project site and a 250-foot survey buffer surrounding the Project site (Figure 2-1).

2.2 - Literature Review and Database Analysis

The following sources were reviewed to obtain information on sensitive biological resources occurring in the Project vicinity:

- California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB; CDFW 2022a).
- CDFW's Biogeographic Information and Observation System (CDFW 2022b).
- CDFW's Special Animals List (CDFW 2022c).
- CDFW's California Wildlife Habitat Relationships (CWHR) System (Mayer and Laudenslayer 1988).
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CNPS 2022).
- United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation System (IPaC; USFWS 2022a).
- USFWS Critical Habitat Mapper (USFWS 2022b).
- USFWS National Wetlands Inventory (USFWS 2022c).
- USGS National Hydrography Dataset (USGS 2022).
- Federal Emergency Management Agency (FEMA) flood zone maps (FEMA 2022).
- U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2022a).
- NRCS Lists of Hydric Soils (NRCS 2022b).
- Current and historical aerial imagery (Google LLC 2022, Netronline 2022).

The CNDDB and CNPS queries focused on the *Clovis* USGS 7.5-minute quadrangle in which the Project is located, plus the surrounding eight quadrangles: *Academy*, *Friant*, *Lanes Bridge*, *Malaga*, *Round Mountain*, *Sanger*, *Fresno North*, and *Fresno South*.

The CNDDB provides element-specific spatial information on documented occurrences of special-status species and sensitive natural communities. Some of the information available for review in the CNDDB is still undergoing review by the CDFW; these records are identified as unprocessed data. The CNPS database provides information similar to the CNDDB but at a much lower spatial resolution. Much of the information from these databases is submitted opportunistically and is often focused on protected lands or on lands where various developments have been proposed. Neither database represents data collected during comprehensive surveys for special-status resources in the region. As such, the absence of recorded occurrences in these databases at any specific location does not preclude the possibility that a special-status species could be present.



Figure 2-1
Biological Study Area
Rocha Property Tract 6400 Project
Fresno County, California

The CDFW Special Animals List and IPaC provide no spatial data on wildlife occurrences and provide only lists of species that might potentially be present. Wildlife species designated as "Fully Protected" by California Fish and Game Code Sections 5050 (Fully Protected reptiles and amphibians), 3511 (Fully Protected birds), and 4700 (Fully Protected mammals) are also included on the final list of species that were evaluated.

A review of the National Wetlands Inventory was completed to identify whether wetlands had previously been documented on or adjacent to the Project site (USFWS 2022c). The National Wetlands Inventory (NWI), which is operated by the USFWS, is a collection of wetland and riparian maps that depicts graphic representations of the type, size, and location of wetlands, deep water, and riparian habitats in the United States. In addition to the NWI, regional hydrologic information from the National Hydrography Dataset (NHD) was obtained from the USGS to evaluate the potential occurrence of blueline streams within the BSA (USGS 2022).

Soils data were obtained from the NRCS (2022a, 2022b), climate information was obtained from the Western Regional Climate Center (WRCC; WRCC 2022), and land use information was obtained from available aerial imagery and as observed during field surveys. Information about flood zones was obtained from the Federal Emergency Management Agency, Department of Homeland Security (FEMA 2022).

The results of the database inquiries were subsequently reviewed to extract pertinent information on site conditions and evaluate the potential for sensitive plant and wildlife species with the potential to occur on or near the Project site (Appendix A). Only those species with the potential to be present and affected by the Project are included and considered in this document. The potential presence of natural communities and special-status species is based on distributional ranges overlapping the Project site and the presence of habitat and/or primary constituent habitat elements.

2.3 - Reconnaissance-Level Field Surveys

A biological survey of the BSA was conducted on March 15, 2022, by QK Environmental Scientists Shannon Gleason and Lauren Fah. The survey consisted of walking meandering pedestrian transects spaced 50 to 100 feet apart throughout the Project site and a 250-foot survey buffer surrounding the site, where accessible. Areas with suitable habitat that could not be accessed (residential properties) were surveyed by use of binoculars.

Tasks completed during the survey included determining and documenting current land use, developing an inventory of plant species, wildlife species, and wildlife sign (e.g., scat, burrows, nests, feathers, tracks, etc.), characterizing vegetation associations and habitat conditions within the BSA, assessing the potential for federally- and State-listed and other special-status plant and wildlife species that may occur on and near the Project site, and assessing the potential for migratory birds and raptors to nest on and near the Project site. In addition, all historical wetland and water features documented by NWI and NHD were field verified. All spatial data were recorded using Environmental Systems Research Institute

(ESRI) Collector for ArcGIS software installed on an iPad. Site conditions were documented with representative photographs (Appendix B).

SECTION 3 - ENVIRONMENTAL SETTING

This section identifies the regional and local environmental setting of the Project site and describes existing baseline conditions. The environmental setting of the BSA was obtained from various sources of literature, databases, and aerial photographs. Site conditions were verified and updated during the site survey conducted by QK Environmental Scientists.

3.1 - Topography

The Project site is in the San Joaquin Valley, which is bounded on the west by the coastal mountain ranges, on the south by the Tehachapi Mountains, on the east by the Sierra Nevada ranges, and on the north by the Sacramento Valley. The Project site is on relatively flat, level terrain with minor variations in elevation. The average elevation of the Project site is approximately 340 feet above mean sea level. The Project site has been previously disturbed by historical agriculture and maintenance activities. Historical aerial imagery shows the land has been farmed and used for agricultural purposes since at least 1962 (Netronline 2022).

3.2 - Climate

The region's climatic conditions are typical of the San Joaquin Valley, consisting of hot, dry summers and mild, wet winters, characteristic of a Mediterranean climate. Average maximum temperatures range from approximately 54.6°F in January to 98.3°F in July, with several days recorded above 100°F each summer (WRCC 2022). Average minimum temperatures range from 37.3°F in December to 65.7°F in July. The average annual precipitation is 10.89 inches, with the most rain occurring from October through April. During the winter months, dense fog often occurs after rain events.

3.3 - Land Use

The Project is within the City of Fresno, California, on the southwestern corner of the intersection of East Clinton Avenue and North Armstrong Avenue (Figure 1-2). The majority of the Project site consists of a field overgrown with dense ruderal plant species consisting predominantly of wild radish (*Raphanus raphanistrum*) and, based on historical aerial images, had been used for agricultural crops (Netronline 2022). There are two residential properties and some agricultural structures located on the northwest corner of the Project site.

The Project site is bounded by active construction associated with residential development to the north and south, residential and commercial properties to the east, and a residential property and associated pasture to the west. Based on available historical aerial imagery, the Project site and surrounding area have been utilized for intensive agricultural activities or urban development (residential and commercial properties) since at least 1962 (Netronline 2022).

3.4 - Soils

The entire BSA is underlain by one soil type: Ramona loam (NRCS 2022a).

3.4.1 - Ramona Soil Series

The Ramona series consists of nearly level to moderately steep, well-drained soils that formed in alluvium mainly derived from granitic and related rock sources (NRCS 2022a). Ramona soils characteristics, including texture, material and mineral composition, color, acidity, and structure, vary widely between soil horizons. Ramona soils are found on terraces and fans at elevations of 250 to 3,500 feet. The mean annual precipitation is about 10 to 20 inches, and the mean annual temperature is about 63°F. This soil is used mostly for the production of grain, grain-hay, pasture, irrigated citrus, olives, row crops, and deciduous fruits. Uncultivated areas have a cover of annual grasses, forbs, chamise, or chaparral. This series is not defined as hydric soil in the region of the Project site (NRCS 2022b).

3.5 - Hydrology

The Project site is in the South Valley Floor Hydrologic Unit, within the Tulare Lake Hydrologic Region (CDWR 2022). The Tulare Lake Hydrologic Region encompasses approximately 10.5 million acres and includes the drainage area south of the San Joaquin River within the San Joaquin Valley. The Kings, Kaweah, Tule, and Kern Rivers, which drain the west face of the Sierra Nevada, provide the bulk of the surface water supply native to the basin. Imported surface waters enter the basin through the San Luis Canal/California Aqueduct System, the Friant-Kern Canal, and the Delta-Mendota Canal. Of these significant water features, the Friant-Kern Canal is the nearest to the Project, occurring approximately 8.5 miles northeast of the Project. The Friant-Kern Canal begins at the Friant Dam at the Millerton Lake reservoir and travels south along the eastern edge of the San Joaquin Valley until it ultimately runs into the Kern River near Bakersfield in Kern County.

The NHD and NWI identify two water features, both unnamed canals, in the vicinity of the Project site (Figure 3-1). Both of these features are classified by the NHD as canal ditches, and the NWI identifies them as Cowardin code R5UBFx; a perennial-flow, semi-permanently flooded streambed with an unconsolidated bottom that is anthropogenic in origin (USFWS 2022c, USGS 2022). One of the canals is shown on the NHD and NWI as north-south traversing and crossing through the eastern boundary of the Project site approximately 30 feet west of North Armstrong Avenue. This feature was not present during the site survey and is not visible on any available historical aerial imagery of the Project site.

The second canal is also north-south traversing and is located outside the BSA, approximately 300 feet west of the Project site. This canal is fed by waters from the Gould Canal approximately 3.3 miles east of the Project site and flows to the Mill Ditch Canal, which is approximately 0.4 miles south of the Project site. This feature is visible on aerial imagery and appears to be a small agricultural canal with a compacted earthen channel. As this feature lies outside of the BSA, it would not be impacted by Project-related activities.

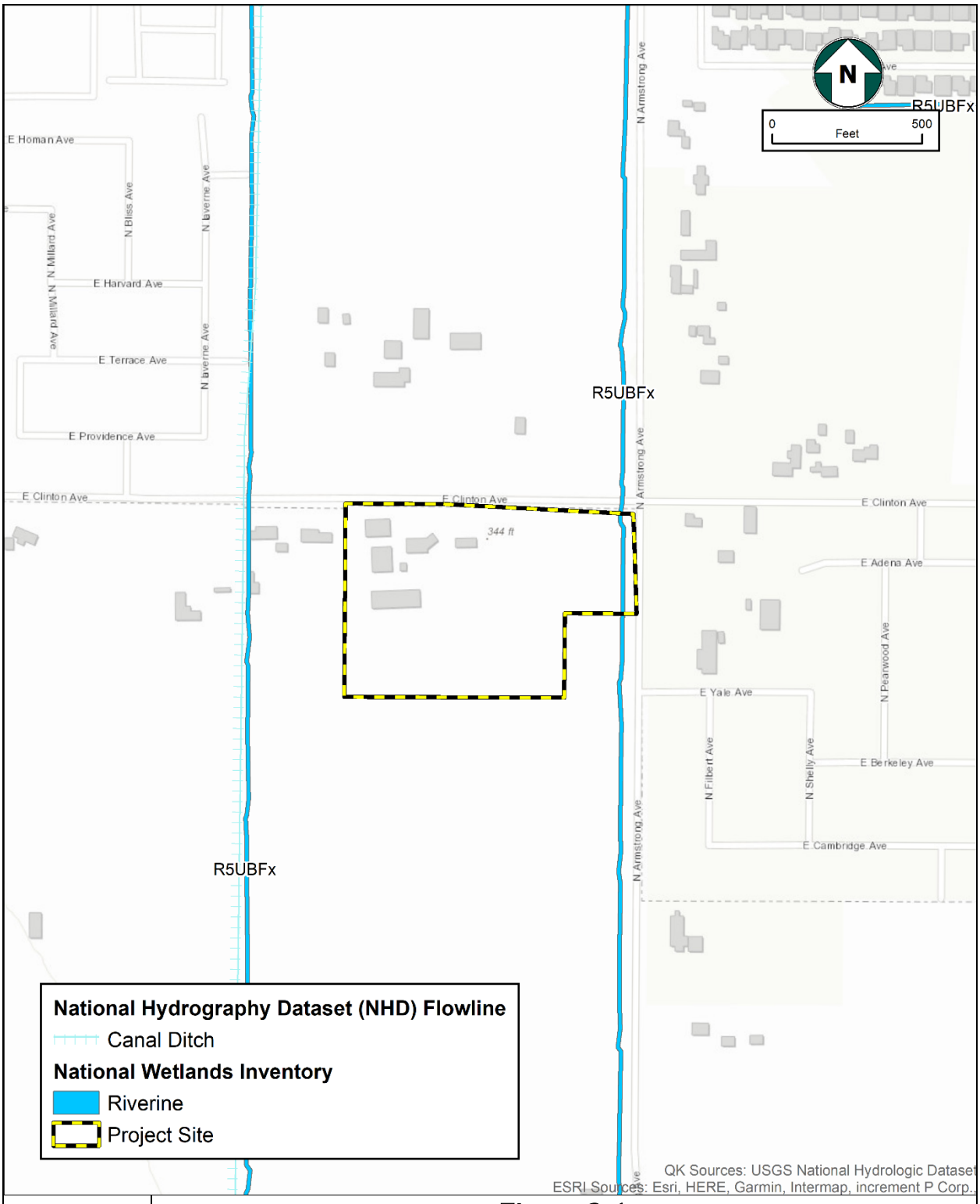


Figure 3-1
NWI and NHD Records of Aquatic Resources
Rocha Property Tract 6400 Project,
Fresno County, California

As defined by FEMA, the entirety of the Project site falls within an area of Minimal Flood Hazard (FEMA 2022).

3.6 - General Biological Conditions

The Project site is bordered by residential development to the north and south and by existing residential and commercial properties to the east and west. It is situated within the City of Fresno, California, and is surrounded by urban development and agricultural practices.

No natural plant communities occur within the BSA. The majority of the Project site was previously used for agricultural production but is currently fallow and vegetated with a dense cover of knee to waist high wild radish interspersed with fiddleneck (*Amsinckia menziesii*). The edges of this field support scattered non-native forbs such as red-stemmed filaree (*Erodium cicutarium*), cheeseweed (*Malva parviflora*), and bur clover (*Medicago polymorpha*) and non-native annual grasses such as ripgut brome (*Bromus diandrus*) and foxtail barley (*Hordeum murinum*). Two private residences are located within the northwestern corner of the Project site and support various ornamental plants and trees, including citrus and pine (*Pinus* sp.) trees. Two additional private residences are located within the western section of the BSA, west of the Project site, and both residences contain large fields dominated by non-native annual grasses, which may be utilized as pasture for cattle that were observed corralled on site.

Evidence of Botta's pocket gopher (*Thomomys bottae*) activity (backfilled vertical burrows with soil mounding) was observed along the northern border of the Project site on the road shoulder of East Clinton Avenue (Appendix B, Photograph 7). There were no other burrows belonging to small or medium-sized mammals observed within the BSA; however, California ground squirrel (*Otospermophilus beecheyi*) vocalizations were heard during the survey which was outside of the BSA.

No bird species nests were observed during the survey. Within the BSA, red-winged blackbirds (*Agelaius phoeniceus*) and white-crowned sparrows (*Zonotrichia leucophrys*) were observed in the field dominated by wild radish. The private residences within the BSA supported several large trees that could support stick nests for support raptor species though none were observed. Red-winged blackbirds, house finches (*Haemorhous mexicanus*), and northern mockingbirds (*Mimus polyglottos*) were observed perched on the branches of these trees. A single turkey vulture (*Cathartes aura*) was observed soaring over the BSA during the survey.

The NHD and NWI identified a single aquatic feature within the BSA, a north-south traversing canal running through the western boundary of the Project site. This feature was not present at the time of the survey and was not visible on any available historical aerial imagery of the site. Several small pools of water were observed in what appeared to be a naturally formed ditch between two land parcels along an approximately 350-foot long portion of the southern boundary of the Project site (Appendix B, Photograph 8). This ditch appeared to be

fed via runoff from the adjacent field and would not be considered jurisdictional. It did not support any hydrophytic vegetation at the time of the survey.

A complete list of plant and wildlife species observed during the biological reconnaissance survey is included in Appendix C.

SECTION 4 - FINDINGS

4.1 - Sensitive Natural Communities

4.1.1 - RESULTS OF LITERATURE REVIEW AND DATABASE SEARCHES

Literature results from the nine-quadrangle queries for the Project site revealed four sensitive natural vegetation communities: Great Valley Mixed Riparian Forest, Sycamore Alluvial Woodland, Northern Claypan Vernal Pool, and Northern Hardpan Vernal Pool.

4.1.2 - PRESENCE OF SENSITIVE NATURAL COMMUNITIES

Great Valley Mixed Riparian Forest and Sycamore Alluvial Woodland communities were not observed on the Project site during the survey, and the BSA does not provide habitat that would support these communities. Northern Claypan Vernal Pool and Northern Hardpan Vernal Pool communities were also not observed on the Project site during the survey. Several small pools of water were observed within a naturally formed ditch between land parcels along the southern boundary of the Project site; however, this feature lacked the hardpan soil characteristic required for both vernal pool communities and lacked the vegetation characteristic of these communities (native annual herbs and grasses). No sensitive natural communities were observed during the survey.

4.2 - Special-Status Plants

4.2.1 - RESULTS OF LITERATURE REVIEW AND DATABASE SEARCHES

Sixteen special-status plant species were identified in the literature and database review that are known or have the potential to occur within the nine-quadrangle queries centered on the Project site (Table 4-1).

Table 4-1
Special-Status Plant Species Occurring in the Region,
Rocha Property Tract 6400 Project
(Source: CNDDB 2022, CNPS 2022, and USFWS 2022)

Scientific Name	Common Name	Status
Calycadenia hooveri	Hoover's calycadenia	1B.3
Carex comosa	bristly sedge	2B.1
Castilleja campestris var. *succulenta*	succulent owl's-clover	FT, SE, 1B.2
Caulanthus californicus	California jewelflower	FE, SE, 1B.1
Downingia pusilla	dwarf downingia	2B.2
Eryngium spinosepalum	spiny-sepaled button-celery	1B.2
Imperata brevifolia	California satintail	2B.1
Lagophylla dichotoma	forked hare-leaf	1B.1
Leptosiphon serrulatus	Madera leptosiphon	1B.2

Scientific Name	Common Name	Status
Navarretia myersii ssp. *myersii*	pincushion navarretia	1B.1
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	FT, SE, 1B.1
Orcuttia pilosa	hairy Orcutt grass	FE, SE, 1B.1
Pseudobahia bahiifolia	Hartweg's golden sunburst	FE, SE, 1B.1
Pseudobahia peirsonii	San Joaquin adobe sunburst	FT, SE, 1B.1
Sagittaria sanfordii	Sanford's arrowhead	1B.2
Tuctoria greenei	Greene's tuctoria	FE, 1B.1

Sources:

- California Department of Fish and Wildlife. 2022. California Natural Diversity Data Base, California Department of Fish and Wildlife Sacramento, CA. Quads: Academy, Clovis. Friant, Lanes Bridge, Malaga, Round Mountain, Sanger, Fresno North, and Fresno South.
- California Native Plant Society (CNPS). 2022. Inventory of Rare and Endangered Plants (online edition, v6-05b 4-11-05). Rare Plant Scientific Advisory Committee. California Native Plant Society. Sacramento, CA. Quads: Academy, Clovis. Friant, Lanes Bridge, Malaga, Round Mountain, Sanger, Fresno North, and Fresno South.
- Unites States Fish and Wildlife Service. 2022. Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Merced U.S.G.S 7 ½ Minute Quad. USFWS. Sacramento, CA.

Abbreviations:

1B.1 California Native Plant Society List 1B Species-Plants Categorized as Rare, Threatened, or Endangered in California and Elsewhere; Seriously Endangered in California
1B.2 California Native Plant Society List 1B Species-Plants Categorized as Rare, Threatened, or Endangered in California and Elsewhere; Fairly Endangered in California.
1B.3 California Native Plant Society List 1B Species-Plants Categorized as Rare, Threatened, or Endangered in California and Elsewhere; Not Very Endangered in California
2B.1 California Native Plant Society List 2B Species-Plants Categorized as Endangered in California; Seriously Endangered
2B.2 Native Plant Society List 2B Species-Plants Categorized as Endangered in California; Fairly Endangered in California
FE Federal Endangered Species
FT Federal Threatened Species
SE California State Endangered Species

4.2.2 - PRESENCE OF SPECIAL-STATUS PLANTS

No special-status plant species were observed within the BSA. The site survey coincided with the optimal blooming period of some but not all of the special-status plant species identified in the database queries. However, there is no habitat present on the Project site or within the BSA that would support any special-status plant species queried during the database search. The Project site is degraded from historical land use, mainly for agricultural operations and residential development, and the adjacent lands have been equally disturbed for agricultural and residential uses. A complete list of plant species observed during the biological reconnaissance survey is included in Appendix C.

4.3 - Special-Status Wildlife

4.3.1 - RESULTS OF LITERATURE REVIEW AND DATABASE SEARCHES

Thirty-nine special-status wildlife species were identified in the literature and database review that are known or have the potential to occur within the nine-quad search area

centered on the Project (Table 4-2). There are no historical records from the CNDDB of special-status wildlife species within the Project site.

Table 4-2
Special-Status Wildlife Species Occurring in the Region,
Rocha Property Tract 6400Project
(Source: CNDDB 2022, CNPS 2022, and USFWS 2022)

Scientific Name	Common name	Status
Insects		
Bombus crotchii	Crotch bumble bee	-,-
Danaus plexippus	monarch butterfly	FC, -
Desmocerus californicus dimorphus	Valley elderberry longhorn	FT, -
Efferia antiochi	Antioch efferian robberfly	-,-
Lytta moesta	moestan blister beetle	-,-
Lytta molesta	molestan blister beetle	-,-
Metapogon hurdi	Hurd's metapogon robberfly	-,-
Crustaceans		
Branchinecta conservatio	conservancy fairy shrimp	FE, -
Branchinecta lynchi	vernal pool fairy shrimp	FT, -
Branchinecta mesovallensis	midvalley fairy shrimp	-,-
Linderiella occidentalis	California linderiella	-,-
Fishes		
Hypomesus transpacificus	delta smelt	FT, SE
Mylopharodon conocephalus	hardhead	-, SSC
Amphibians		
Ambystoma californiense	California tiger salamander	FT, ST
Rana draytonii	California red-legged frog	FT, SSC
Spea hammondii	western spadefoot	-, SSC
Reptiles		
Anniella pulchra	Northern California legless lizard	-. SSC
Arizona elegans occidentalis	California glossy snake	-. SSC
Emys marmorata	western pond turtle	-, SSC
Gambelia sila	blunt-nosed leopard lizard	FE, SE, FP
Phrynosoma blainvillii	coast horned lizard	-, SSC
Thamnophis gigas	giant garter snake	FT, ST
Birds		
Agelaius tricolor	tricolored blackbird	ST, SSC
Ardea alba	great egret	-,-
Athene cunicularia	burrowing owl	-, SSC
Buteo swainsoni	Swainson's hawk	-, ST
Coccyzus americanus occidentalis	western yellow-billed cuckoo	FT, SE
Egretta thula	snowy egret	-,-
Eremophila alpestris actia	California horned lark	-,-

Scientific Name	Common name	Status
Nannopterum auritum	double-crested cormorant	-,-
Nycticorax nycticorax	black-crowned night heron	-,-
Vireo bellii pusillus	least Bell's vireo	FE, SE
Mammals		
Antrozous pallidus	pallid bat	-, SSC
Dipodomys nitratoides exilis	Fresno kangaroo rat	FE, SE
Eumops perotis californicus	western mastiff bat	-, SSC
Lasiurus cinereus	hoary bat	-,-
Perognathus inornatus	San Joaquin pocket mouse	-,-
Taxidea taxus	American badger	-, SSC
Vulpes macrotis mutica	San Joaquin kit fox	FE, ST

Sources:

- California Department of Fish and Wildlife. 2022. California Natural Diversity Data Base, California Department of Fish and Wildlife Sacramento, CA. Quads: Academy, Clovis. Friant, Lanes Bridge, Malaga, Round Mountain, Sanger, Fresno North, and Fresno South.
- California Native Plant Society (CNPS). 2022. Inventory of Rare and Endangered Plants (online edition, v6-05b 4-11-05). Rare Plant Scientific Advisory Committee. California Native Plant Society. Sacramento, CA. Quads: Academy, Clovis. Friant, Lanes Bridge, Malaga, Round Mountain, Sanger, Fresno North, and Fresno South.
- United States Fish and Wildlife Service. 2022. Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Merced U.S.G.S 7 ½ Minute Quad. USFWS. Sacramento, CA.

Abbreviations:

FE Federal Endangered Species
FT Federal Threatened Species
FC Federal Candidate for Listing
SE California State Endangered Species
ST California State Threatened Species
SSC California Department of Fish and Wildlife Species of Special Concern

4.3.2 - PRESENCE OF SPECIAL-STATUS WILDLIFE

No special-status wildlife species or their sign were observed within the BSA. The Project site is highly disturbed and contains no habitat capable of supporting most of the special-status wildlife species listed in Table 4-2. A complete list of wildlife species observed during the biological reconnaissance survey is included in Appendix C.

The small, pooled water observed along a portion of the southern boundary of the Project site would not support either conservancy fairy shrimp (*Branchinecta conservatio*), which require large, cool-water vernal pools with moderately turbid water, or vernal pool fairy shrimp (*Branchinecta lynchi*), which occur in a variety of vernal pool habitats but typically as part of a larger vernal pool complex. The two remaining crustacean species have no formal protection under the California Endangered Species Act (CESA) or Federal Endangered Species Act of 1973 (ESA).

There are no wetland features present within the BSA capable of supporting amphibians such as California tiger salamander (*Ambystoma californiense*) and California red-legged frog (*Rana draytonii*). The small pools of water observed along the southern boundary of the Project site are not substantial enough to support western spadefoot (*Spea hammondii*) breeding and are directly adjacent to an active construction site and densely vegetated field,

both of which are not considered suitable habitat for the species. The BSA lacks the necessary hydrology and vegetation to support giant garter snake (*Thamnophis gigas*) and western pond turtle (*Emys marmorata*), and there are no water features present capable of supporting fish species such as the delta smelt (*Hypomesus transpacificus*) or hardhead (*Mylopharodon conocephalus*).

There are no grasslands or native shrub habitats within the BSA that would support California glossy snake (*Arizona elegans occidentalis*), Northern California legless lizard (*Anniella pulchra*), coast horned lizard (*Phrynosoma blainvillii*), or blunt-nosed leopard lizard (*Gambelia sila*). Additionally, the Project site is densely vegetated and does not provide open areas with loose/sandy soils for easy burrowing as required by Northern California legless lizard and coast horned lizard. Aside from backfilled gopher burrows on the northern boundary of the Project site, there were no small mammal burrows observed to provide shelter for blunt-nosed leopard lizard or California glossy snake.

No wetland or riparian habitat exists on-site that would support nesting habitat tricolored blackbird (*Agelaius tricolor*), least Bell's vireo (*Vireo bellii pusillus*) or western yellow-billed cuckoo (*Coccyzus americanus*), or other aquatic bird species like the great egret (*Ardea alba*), snowy egret (*Egretta thula*), double-crested cormorant (*Nannopterum auritum*), or black-crowned night heron (*Nycticorax nycticorax*). California horned lark (*Eremophila alpestris actia*) has no formal protection under the CESA or ESA, and the BSA lacks grassland or desert habitat that would support the species. Burrowing owl (*Athene cunicularia*) also inhabits grassland and desert habitats and relies on existing small mammal burrows, such as those of California ground squirrel, for shelter and breeding. The BSA does not contain suitable habitat, and no suitable burrows were observed within the BSA. The prey base available for this species on-site is limited to none, and it is not expected that this species would be present.

There is no roosting habitat for monarch butterfly (*Danaus plexippus*) present within the BSA, although it may travel through the Project site as a transient. Additionally, no milkweed (*Asclepias* sp.) was observed within the BSA, which is a required food source for larval monarch butterflies. There are no elderberry shrubs within the BSA to support the valley elderberry longhorn beetle (*Desmocerus californicus*). The five remaining insect species have no formal protection under the CESA or the ESA.

There are no rocky outcroppings, mines or caves, cliff faces, tree hollows, or bridges on the Project site that would support the pallid bat (*Antrozous pallidus*), western mastiff bat (*Eumops perotis californicus*), or hoary bat (*Lasiurus cinereus*). Due to the historic disturbance and absence of small mammal burrows, the BSA does not support the Fresno kangaroo rat (*Dipodomys nitratoides exilis*) or San Joaquin pocket mouse (*Perognathus inornatus*).

The San Joaquin kit fox (*Vulpes macrotis mutica*) is unlikely to occur on the Project site. The nearest CNDDB occurrence for San Joaquin kit fox is mapped in Sanger, approximately 7.7 miles southeast of the Project site, where an individual was observed sometime in the 1980s (EONDX 70606). The Project site consists mainly of overgrown wild radish, with residential

and commercial development in the northwest corner and in the surrounding survey buffer. No San Joaquin kit fox or diagnostic signs of the species (e.g., tracks, dens, scat, prey remains) were found during the field survey, and there is a very limited prey base. Surrounding land use and habitat conditions make it unlikely that the San Joaquin kit fox would be present other than as a transient forager. The American badger (*Taxidea taxus*) has similar habitat requirements to the San Joaquin kit fox and also is unlikely to occur within the BSA other than as a transient. The nearest American badger CNDDB occurrence is approximately 1.5 miles northwest of the Project from 1987 (EONDX 56616). Project activities would be very unlikely to affect these species.

The Swainson's hawk (*Buteo swainsoni*) is unlikely to nest on the Project site. The nearest Swainson's hawk CNDDB occurrence is from 1956 and is only approximately mapped as "near Fresno" (EONDX 91594). The next nearest Swainson's hawk CNDDB occurrence is from 2016 and approximately 8 miles southwest of the Project site, documenting an active nest located in a non-native grassland pasture (EONDX 106840). There is very limited foraging habitat for Swainson's hawk within the BSA, and only marginally suitable trees for nesting, but there are suitably large nesting trees within 0.5 miles of the Project site, but the species could nest in the vicinity of the Project.

4.4 - Nesting Migratory Birds and Raptors

4.4.1 - Presence of Nesting Birds and Raptors

No active or inactive migratory bird or raptor nests were observed during the survey, which was conducted during the breeding season (February 1 through September 15). There are a variety of man-made structures, transmission towers, and trees within the BSA and in the vicinity of the Project, which could support a variety of nesting bird species, including larger species such as raptors and common raven (*Corvus corax*). Because the Project site is densely vegetated and developed residentially, it is unlikely that ground-nesting species would nest on the Project.

4.5 - Critical Habitat, Movement Corridors, and Linkages

4.5.1 - Presence of Critical Habitat

No designated Critical Habitat occurs on the Project site. The nearest USFWS-designated Critical Habitat is for fleshy owl's-clover (*Castilleja campestris* ssp. *succulenta*), located approximately 5.8 miles northwest of the Project (Figure 4-1).

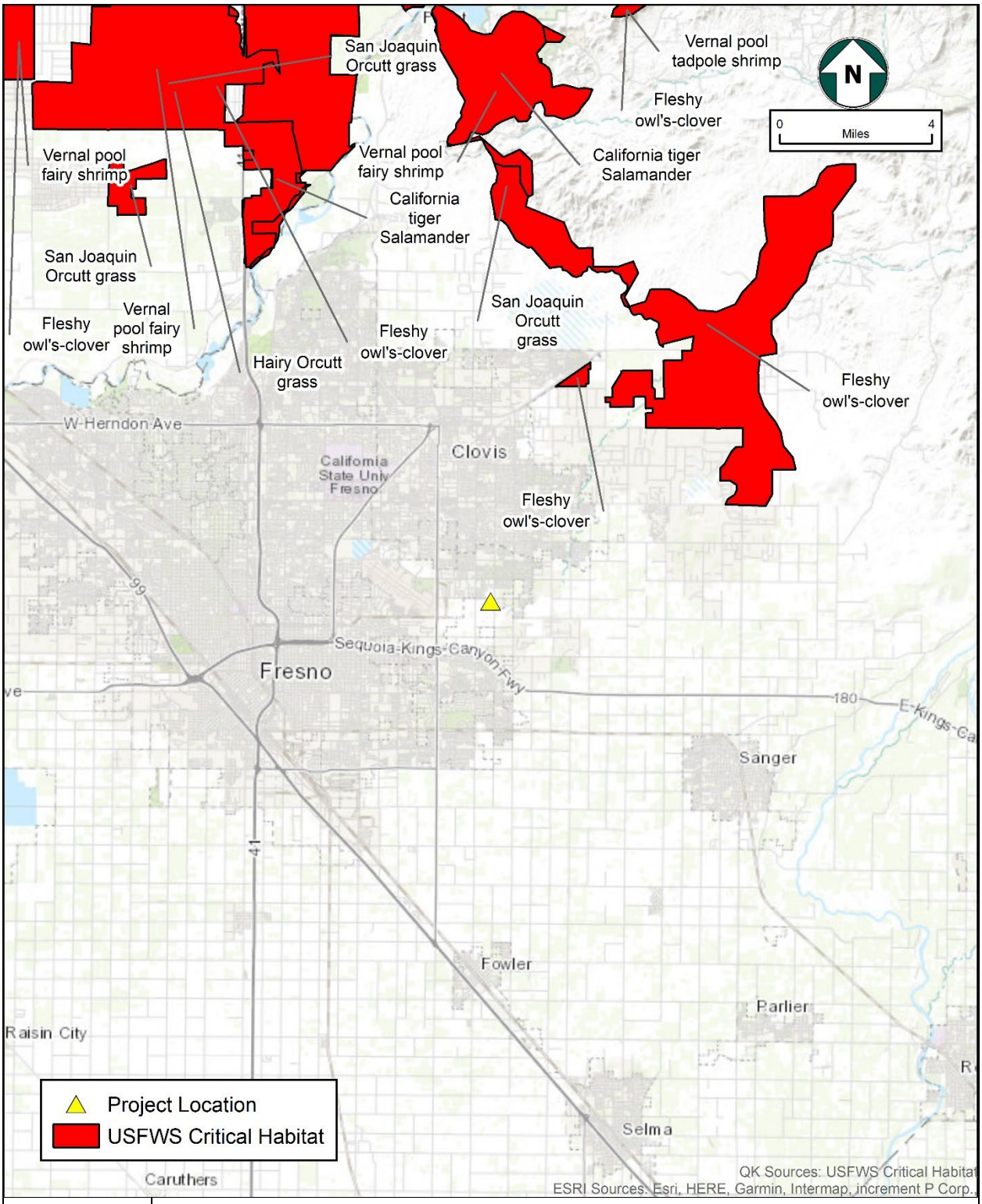


Figure 4-1
Mapped Critical Habitat in the Project Vicinity
Rocha Property Tract 6400 Project,
Fresno County, California

4.5.2 - Presence of Movement Corridors and Linkages

There are no known wildlife movement corridors or habitat linkages that intersect the Project site. The Project is situated within an area developed for urban and agricultural use and does not provide a linkage between suitable natural habitats for most wildlife species. Due to the disturbed condition of the Project, there is no substantial movement of wildlife onto or off of the Project site.

4.6 - Wetlands and Waters

4.6.1 - Presence of Wetlands and Other Waters

No wetland features are known to exist at the Project site (see Figure 3-1). The NHD and NWI identified one water feature that intersected the BSA, crossing the eastern side of the Project site, classified as a canal ditch and perennial-flow, artificially-excavated streambed. This canal was not present during the site survey and is not visible on historical aerial imagery. No water or wetland features were observed during the survey, and the Project would not affect any jurisdictional water resources.

SECTION 5 - POTENTIAL PROJECT IMPACTS

The purpose of this section is to present an evaluation of the potential for Project-related impacts to sensitive biological resources to occur resulting from Project construction activities. Although the potential for impacts of the Project is anticipated to be minor because the Project will be mostly constructed on a fallow agricultural field and maintained residential properties, there are some risks of Project impacts. These are discussed below.

5.1 - Potential Impacts to Sensitive Vegetation Communities

No sensitive vegetation communities occur on-site. The Project would not impact sensitive natural communities.

5.2 - Potential Impacts to Special-Status Plant Species

No special-status plant species occur on-site, and there is no suitable habitat for any special-status plant species on or near the Project site. The Project would not impact special-status plant species.

5.3 - Potential Impacts to Special-Status Wildlife Species

Some special-status wildlife species could be present on and near the Project from time to time. The available habitat only marginally fulfills the denning and foraging habitat requirements of the San Joaquin kit fox, and American badger. The potential for San Joaquin kit fox and American badger to occur on the Project site, even as transients, is unlikely because the Project has a very limited prey base, has no travel pathways or connectivity to adjacent natural habitat, and is surrounded by urban development. No sign of these species was observed during the site survey. Similarly, Swainson's hawks are unlikely to utilize the Project site for foraging because of the tall cover of vegetation, limited prey base, and lack of suitable nearby nesting trees. There are suitably large nesting trees in the vicinity of the Project that could be used by nesting Swainson's hawk, but most are too distant from the Project site to negatively affect the nesting behavior of nesting Swainson's hawks. If Swainson's hawks are actively nesting in the vicinity of the Project during Project activities, Project activities could interfere with normal breeding behaviors, which could discourage breeding or lead to nest failure or abandonment.

5.4 - Potential Impacts to Nesting Birds and Raptors

No active or inactive bird nests were observed during the site survey. There is potential for birds to nest on the Project site in existing structures and trees and in trees and utility poles in the surrounding urban areas. If there are active nests present during Project activities, nests could be destroyed, and Project activities could interfere with normal breeding behaviors, which could discourage breeding or lead to nest abandonment or failure.

5.5 - Potential Impacts to Critical Habitat, Movement Corridors, and Linkages

5.5.1 - Potential Impacts to Critical Habitat

The Project would not impact any designated Critical Habitat.

5.5.2 - Potential Impacts to Movement Corridors and Linkages

Project activities would not impact any movement corridors or habitat linkages.

5.6 - Potential Impacts to Wetlands and Waters

No wetland features exist on or near the Project site, and there would be no impacts to wetland resources. Two canal ditches were identified via the NHD and NWI. One is located west of the BSA and would not be impacted by Project activities. The other was not present during the site survey and is not visible on historical aerial imagery, and as such, would not be impacted. There would be no impacts to any wetlands or water features.

SECTION 6 - RECOMMENDATIONS

The Project is anticipated to have no impacts to sensitive natural communities, special-status plants, wetlands and water features, Critical Habitat, or migratory corridors. There is potential for Project activities to result in impacts to some of the special-status wildlife species listed in Sections 4 and 5. While the potential for impacts to San Joaquin kit fox, American badger, and Swanson's hawk are low, to avoid these species and other wildlife species, we recommend that the following measures be implemented as Best Management Practices (BMPs) during Project activities:

- A preconstruction survey of the Project and a 5000-foot buffer surrounding the Project footprint should be conducted for San Joaquin kit fox, American badger, and burrowing owl. The survey should occur no less than 14 days prior to the start of construction activities and no more than 30 days prior to the start of construction activities. If construction is delayed beyond 30 days from the time of the survey, then another survey would need to be conducted. The survey should be conducted by a biologist with adequate training and prior experience conducting surveys for special-status wildlife species.
- A worker environmental Awareness Training Program should be prepared and presented to all workers that will be on-site during construction activities.
- Project-related vehicles should observe a 20 mph speed limit in all Project areas, except on county roads and state and federal highways; this is particularly important at night when kit foxes, American badgers, and other animals are most active. To the extent possible, nighttime construction should be minimized. Off-road traffic outside of designated project areas should be prohibited.
- To prevent inadvertent entrapment of kit foxes, American badgers, and other animals during work being conducted, the contractor should cover all excavated, steep-walled holes or trenches more than two feet deep at the close of each working day with plywood or similar materials or provide one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, the contractor should thoroughly inspect them for trapped animals.
- Kit foxes and other wildlife species are attracted to den-like structures such as pipes and may enter stored pipes, becoming trapped or injured. All construction pipes, culverts, or similar structures with a diameter of four 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 kit fox 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 once to remove it from the path of construction activity until the fox has escaped.
- All trash and food items should be discarded into closed containers and properly disposed of at the end of each workday.
- To prevent harassment or mortality of listed species, no pets should be permitted on the Project site.

To protect nesting migratory birds and raptors, it is recommended that:

- If Project activities are scheduled during the breeding bird season, from February 1 through September 15, then a preconstruction survey for nesting birds should be conducted within the Project site and within a 500-foot radius surrounding the Project site for active nesting sites. A 0.5-mile radius surrounding the Project site should be used to survey for nesting Swainson's hawks. Construction activities should not be conducted within 250 feet of an active bird nest, within 500 feet of an active raptor nest, and within 0.5 miles of an active Swainson's hawk nest. These avoidance distances may be reduced if the qualified biologist determines that activities are not affecting the breeding success of the nesting birds.

Additional recommendations to avoid impacts to Swainson's hawk are:

- If an active Swainson's hawk nest is discovered at any time within 0.5 miles of active construction, a qualified biologist should complete an assessment of the potential for current construction activities to impact the nest. The biologist would then determine if construction activities can proceed and the level of nest monitoring required. Construction activities should not occur within 500 feet of an active nest, but depending upon conditions at the site, this distance may be increased or reduced at the biologist's discretion. Full-time monitoring to evaluate the effects of construction activities on nesting Swainson's hawks may be necessary. The qualified biologist should have the authority to stop work if it is determined that Project construction is disturbing the nest.

SECTION 7 - SUMMARY AND CONCLUSION

Land within the BSA is highly disturbed and contains no habitat that would support special-status plant species or sensitive natural communities. There are no designated Critical Habitats, movement corridors, wetlands, or water features that would be impacted by the Project.

Based on the literature and database searches and results of the site survey, there is potential for three special-status species to occur on the site: the San Joaquin kit fox, American badger, and Swainson's hawk. Because of the disturbed nature of the Project and its situation within an area developed for agriculture and urban use, impacts to the San Joaquin kit fox and American badger are not expected. San Joaquin kit foxes and American badgers would likely be the only transient visitors to the Project site. If Swainson's hawks were to nest in the vicinity of the Project, impacts to the species could occur. The Project and surrounding areas provide suitable nesting habitat for other nesting migratory birds as well, and impacts to these species may also occur. Implementation of the recommended BMPs and avoidance measures outlined in Section 6 would minimize any Project impacts to these species.

This Biological Resource Evaluation report has been performed in accordance with professionally accepted biological investigation practices conducted at this time and in this geographic area. The findings and opinions conveyed in this report are based on findings derived from specified historical and literary sources and a biological survey of the Project site and surrounding area. The biological investigation was limited by the scope of work performed. The biological survey may not have been performed during blooming periods or periods of seasonal or daily wildlife activity that would provide positive identification if resources were present, and therefore the findings of this report might not be definitive. The biological survey was also limited by the environmental conditions present at the time of the survey. In addition, general biological (or protocol) surveys do not guarantee that the organisms are not present and would not be discovered in the future within the site. Mobile animal species could occupy the site on a transient basis or re-establish populations in the future. No other guarantees or warranties, expressed or implied, are provided.

SECTION 8 - REFERENCES

California Department of Fish and Wildlife (CDFW). 2022a. California Natural Diversity Database (CNDDB), from https://map.dfg.ca.gov/rarefind/view/RareFind.aspx.

California Department of Fish and Wildlife (CDFW). 2022b. Biogeographic Information and Observation System (BIOS). www.wildlife.ca.gov/data/BIOS

California Department of Fish and Wildlife (CDFW). 2022c. CDFW's Special Animals List

California Department of Water Resources Water Management Planning Tool (CDWR). 2022. https://gis.water.ca.gov/app/boundaries/

California Native Plant Society (CNPS). 2022. Inventory of Rare and Endangered Plants. Updated online and accessed via: www.rareplants.cnps.org.

Federal Emergency Management Agency (FEMA) 2022. On-line Map Service Center.

Google LLC. 2022. Google Earth Pro.

Mayer, K.E. and W.F. Laudenslayer, Jr. 1988. *A guide to wildlife habitats of California. State of California*. Resources Agency, Department of Fish and Game. Sacramento, CA. 166 pp. As updated online at: https://www.wildlife.ca.gov/Data/CWHR/Wildlife-Habitats

Netronline. 2022. Historic Aerials Viewer. Accessed via: www.historicaerials.com/viewer

United States Department of Agriculture, Natural Resources Conservation Service (NRCS). 2022a. Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

United States Department of Agriculture, Natural Resources Conservation Service (NRCS). 2022b. Lists of Hydric Soils. National Cooperative Soil Survey, U.S. Department of Agriculture. Accessed via: https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/.

United States Fish and Wildlife Service (USFWS). 2022a. Information for Planning and Consultation online project planning tool. Available at: https://ecos.fws.gov/ipac/

United States Fish and Wildlife Service (USFWS). 2022b. Critical Habitat Portal. Available at: https://ecos.fws.gov/ecp/report/table/critical-habitat.html

United States Fish and Wildlife Service (USFWS). 2022c. National Wetlands Inventory Wetlands Mapper (NWI). U.S. Geological Survey.

United States Geological Survey (USGS). 2022. National Hydrography Dataset (NHD). https://www.usgs.gov/core-science-systems/ngp/national-hydrography

Western Region Climate Center. 2022. Cooperative Climatological Data Summaries. Station ID: Fresno Yosemite Intl AP, California 043257. Accessed March 2022. https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3257

APPENDIX A

SPECIAL-STATUS SPECIES DATABASE SEARCH RESULTS FOR THE ROCHA PROPERTY TRACT PROJECT

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Project Code: 2022-0020285
Project Name: TTM 4500

March 15, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Project Code: 2022-0020285
Event Code: None
Project Name: TTM 4500
Project Type: New Constr - Above Ground
Project Description: Residential development
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@36.771192,-119.67486637164018,14z



Counties: Fresno County, California

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fresno Kangaroo Rat *Dipodomys nitratoides exilis* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5150	Endangered
San Joaquin Kit Fox *Vulpes macrotis mutica* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2873	Endangered

Birds

NAME	STATUS
Yellow-billed Cuckoo *Coccyzus americanus* Population: Western U.S. DPS There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard *Gambelia silus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/625	Endangered
Giant Garter Snake *Thamnophis gigas* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog *Rana draytonii* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander *Ambystoma californiense* Population: U.S.A. (Central CA DPS) There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt *Hypomesus transpacificus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp *Branchinecta conservatio* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp *Branchinecta lynchi* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

Flowering Plants

NAME	STATUS
Greene's Tuctoria *Tuctoria greenei*	Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/1573

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency: Quad Knopf, Inc.
Name: Shannon Gleason
Address: 5080 California Ave.
City: Bakersfield
State: CA
Zip: 93309
Email shannon.gleason@qkinc.com
Phone: 6616162600

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Clovis (3611976) OR Academy (3611985) OR Friant (3611986) OR Lanes Bridge (3611987) OR Malaga (3611966) OR Round Mountain (3611975) OR Sanger (3611965) OR Fresno North (3611977) OR Fresno South (3611967))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3	S3	WL
Anniella pulchra Northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Bombus crotchii Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Calycadenia hooveri Hoover's calycadenia	PDAST1P040	None	None	G2	S2	1B.3
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Castilleja campestris var. succulenta succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
Caulanthus californicus California jewelflower	PDBRA31010	Endangered	Endangered	G1	S1	1B.1
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S3	
Dipodomys nitratoides exilis Fresno kangaroo rat	AMAFD03151	Endangered	Endangered	G3TH	SH	
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Efferia antiochi Antioch efferian robberfly	IIDIP07010	None	None	G1G2	S1S2	
Egretta thula snowy egret	ABNGA06030	None	None	G5	S4	
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eremophila alpestris actia California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Eryngium spinosepalum spiny-sepaled button-celery	PDAPI0Z0Y0	None	None	G2	S2	1B.2
Euderma maculatum spotted bat	AMACC07010	None	None	G4	S3	SSC
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
Gonidea angulata western ridged mussel	IMBIV19010	None	None	G3	S1S2	
Great Valley Mixed Riparian Forest Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Imperata brevifolia California satintail	PMPOA3D020	None	None	G4	S3	2B.1
Lagophylla dichotoma forked hare-leaf	PDAST5J070	None	None	G2	S2	1B.1
Lasiurus cinereus hoary bat	AMACC05030	None	None	G3G4	S4	
Leptosiphon serrulatus Madera leptosiphon	PDPLM09130	None	None	G3	S3	1B.2
Linderiella occidentalis California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Lytta moesta moestan blister beetle	IICOL4C020	None	None	G2	S2	
Lytta molesta molestan blister beetle	IICOL4C030	None	None	G2	S2	
Metapogon hurdi Hurd's metapogon robberfly	IIDIP08010	None	None	G1G2	S1S2	
Mylopharodon conocephalus hardhead	AFCJB25010	None	None	G3	S3	SSC
Nannopterum auritum double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
Navarretia myersii ssp. myersii pincushion navarretia	PDPLM0C0X1	None	None	G2T2	S2	1B.1
Northern Claypan Vernal Pool Northern Claypan Vernal Pool	CTT44120CA	None	None	G1	S1.1	

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Nycticorax nycticorax black-crowned night heron	ABNGA11010	None	None	G5	S4	
Orcuttia inaequalis San Joaquin Valley Orcutt grass	PMPOA4G060	Threatened	Endangered	G1	S1	1B.1
Orcuttia pilosa hairy Orcutt grass	PMPOA4G040	Endangered	Endangered	G1	S1	1B.1
Perognathus inornatus San Joaquin pocket mouse	AMAFD01060	None	None	G2G3	S2S3	
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Pseudobahia bahiifolia Hartweg's golden sunburst	PDAST7P010	Endangered	Endangered	G1	S1	1B.1
Pseudobahia peirsonii San Joaquin adobe sunburst	PDAST7P030	Threatened	Endangered	G1	S1	1B.1
Sagittaria sanfordii Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
Spea hammondii western spadefoot	AAABF02020	None	None	G2G3	S3	SSC
Sycamore Alluvial Woodland Sycamore Alluvial Woodland	CTT62100CA	None	None	G1	S1.1	
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Tuctoria greenei Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
Vireo bellii pusillus least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
Vulpes macrotis mutica San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2	S2	

Record Count: 55

APPENDIX B

REPRESENTATIVE PHOTOGRAPHS OF THE ROCHA PROPERTY TRACT PROJECT



Photograph 1: Facing north from the southeast corner of the Project site.
GPS Coordinates: 36.770361°N, -119.674128°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 2: Facing west from the northeast corner of the Project site.
GPS Coordinates: 36.771951°N, -119.673356°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 3: Facing south from the northeast corner of the Project site.
GPS Coordinates: 36.771951°N, -119.673356°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 4: Facing east from the northwest corner of the Project site.
GPS Coordinates: 36.772054°N, -119.676500°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 5: Facing north from the center of the Project site.
GPS Coordinates: 36.770860°N, -119.675668°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 6: Facing west from the center of the Project site.
GPS Coordinates: 36.770860°N, -119.675668°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 7: Representative of pocket gopher sign observed along northern boundary of Project site.
GPS Coordinates: 36.772067°N, -119.673812°W.
Photograph taken by Lauren Fah on March 15, 2022.



Photograph 8: Non-jurisdictional pooled water observed along southern boundary of Project site.
GPS Coordinates: 36.770292°N, -119.675453°W.
Photograph taken by Lauren Fah on March 15, 2022.

APPENDIX C

PLANT AND WILDLIFE SPECIES OBSERVED ON THE ROCHA PROPERTY TRACT 6400 PROJECT

Table C - 1
Plant and Wildlife Species Observed on the Project Site
Rocha Property Tract 6400 Project

Scientific Name	Common Name	Status
Plants		
Amsinckia menziesii	fiddleneck	None
Anthemis cotula	dog fennel	None
Avena fatua	wild oat	None
Bromus diandrus	ripgut brome	None
Citrus x *paradisi*	grapefruit tree	None
Citrus x *sinensis*	orange tree	None
Digitaria sp.	crabgrass	None
Erodium botrys	broad leaf filaree	None
Erodium cicutarium	red-stemmed filaree	None
Festuca perennis	Italian rye grass	None
Hordeum murinum	foxtail barley	None
Malva parviflora	cheeseweed	None
Matricaria discoidea	pineapple weed	None
Medicago polymorpha	bur clover	None
Pinus sp.	pine tree	None
Raphanus raphanistrum	wild radish	None
Senecio vulgaris	common groundsel	None
Triticum sp.	wheat	None
Washingtonia filifera	California fan palm	None
Birds		
Agelaius phoeniceus	red-winged blackbird	None
Cathartes aura	turkey vulture	None
Haemorhous mexicanus	house finch	None
Mimus polyglottos	northern mockingbird	None
Zenaida macroura	mourning dove	None
Zonotrichia leucophrys	white-crowned sparrow	None
Mammals		
Bos sp.	cattle	None
Otospermophilus beecheyi	California ground squirrel*	None
Thomomys bottae	Botta's pocket gopher*	None

* Indicates that only sign (e.g., tracks, scat, burrows, dens, vocalizations) of the species was observed.

Appendix C

TECHNICAL MEMORANDUM

Date: March 4, 2022

Project: Cultural resources records search- Vesting Tentative Subdivision Map 6400, City of Fresno, Fresno County, CA

To: Jaymie Brauer, Principal Planner

From: Robert Parr, MS, RPA, Senior Archaeologist

Subject: Cultural Resources Records Search Results (RS#22-101)

Background

A cultural resources records search (#22-101) was conducted at the Southern San Joaquin Valley Information Center (IC), CSU Bakersfield for the above referenced Project in the City of Fresno, Fresno County to determine whether the proposed project would impact cultural resources.

Project Location

The Project is located in Fresno, Fresno County, California. The Project site is within the northeast ¼ of the southwest ¼ of Section 27, T.13S, R.21E (Figures 1-4).

Project Description

The proposed project intends to create residential lots and the appurtenant infrastructure consistent with the General Plan designation of Medium Density Residential and Zoning designation of RS-5 (Residential Single-Family, Medium Density), respectively. As proposed, the tract consists of approximately 12.65-acre parcel (APN: 574-050-02) and proposes 72 lots, which is approximately 5.69 dwelling units per gross acre. The project proposes primary access from E. Clinton Avenue and N. Armstrong Avenue.

Results

The records search covered an area within one-half mile of the Project and included a review of the *National Register of Historic Places, California Points of Historical Interest, California Registry of Historic Resources, California Historical Landmarks, California State Historic Resources Inventory*, and a review of cultural resource reports on file.

The records search indicated that the subject property had never been surveyed for cultural resources and it is not known if any exist there. Four cultural resource studies have been conducted within a half mile of the project (Peak 2019a, 2019b, 2019c, 2019d).

No cultural resources have been identified or recorded within a half mile of the project.

Conclusions

Based on the results of cultural records search findings and the lack of historical or archaeological resources previously identified within a half mile radius of the proposed Project, the potential to encounter subsurface cultural resources is minimal. Additionally, the Project construction would be conducted within the partially developed and previously disturbed parcel. The potential to uncover subsurface historical or archaeological deposits would be considered unlikely.

However, there is still a possibility that historical or archaeological materials may be exposed during construction. Grading and trenching, as well as other ground-disturbing actions have the potential to damage or destroy these previously unidentified and potentially significant cultural resources within the project area, including historical or archaeological resources. Disturbance of any deposits that have the potential to provide significant cultural data would be considered a significant impact. To reduce the potential impacts of the Project on cultural resources, the following measures are recommended to be included as Conditions of Approval. With implementation of CUL-1 and CUL-2, the Project would have a less than significant impact related to cultural resources.

CUL-1: If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified archaeologist can evaluate the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. If the qualified archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from Project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. Implementation of the mitigation measure below would ensure that the proposed Project would not cause a substantial adverse change in the significance of a historical resource.

CUL-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the county coroner.

TECHNICAL MEMORANDUM

Robert E. Parr, MS, RPA
Senior Archaeologist

Attachment A- Figures
Attachment B- Sacred Lands File Response by the Native American Heritage Commission

References

(all reports on file at the Southern San Joaquin Valley Information Center, California State University, Bakersfield)

Peak, Melinda A.

2019a Cultural Resource Assessment for the Floradora-Armstrong Reorganization-Annexation Area and Tentative Tract 6201 and Tract 6235 Developments, Fresno County, California. (FR-03008)

2019b Cultural Resource Assessment for the Tentative Tract 6241 Development, Fresno County, California. (FR-03013)

2019c Cultural Resource Assessment for the Meadowood II Tract 6281 Development, Fresno County, California. (FR-03014)

2019d Cultural Resource Assessment for the Meadowood I Tract 6285 Development, Fresno County, California. (FR-03016)

TECHNICAL MEMORANDUM

Attachment A-
Figures

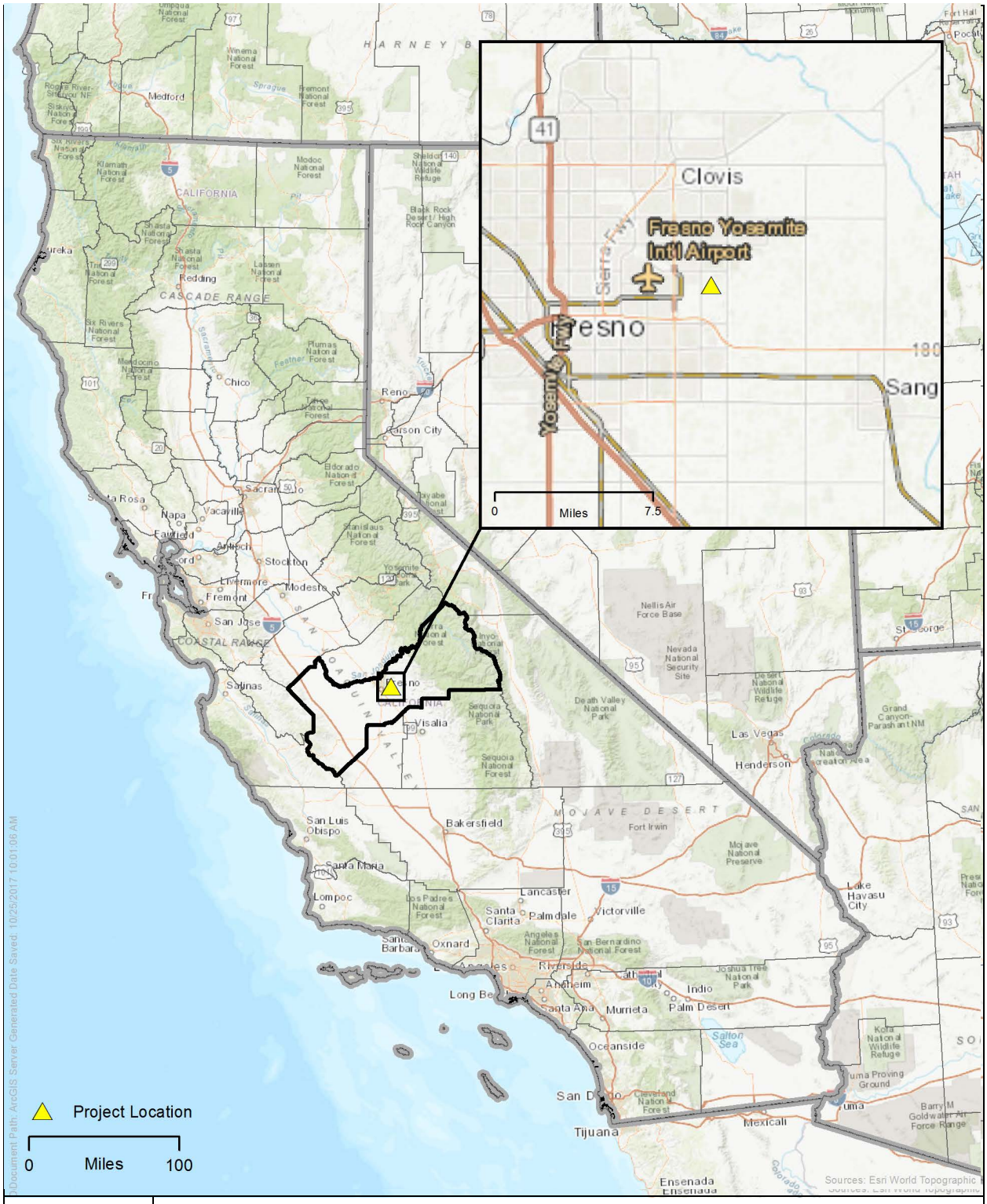


Figure - 1
Regional Location



Figure - 2
Project Area

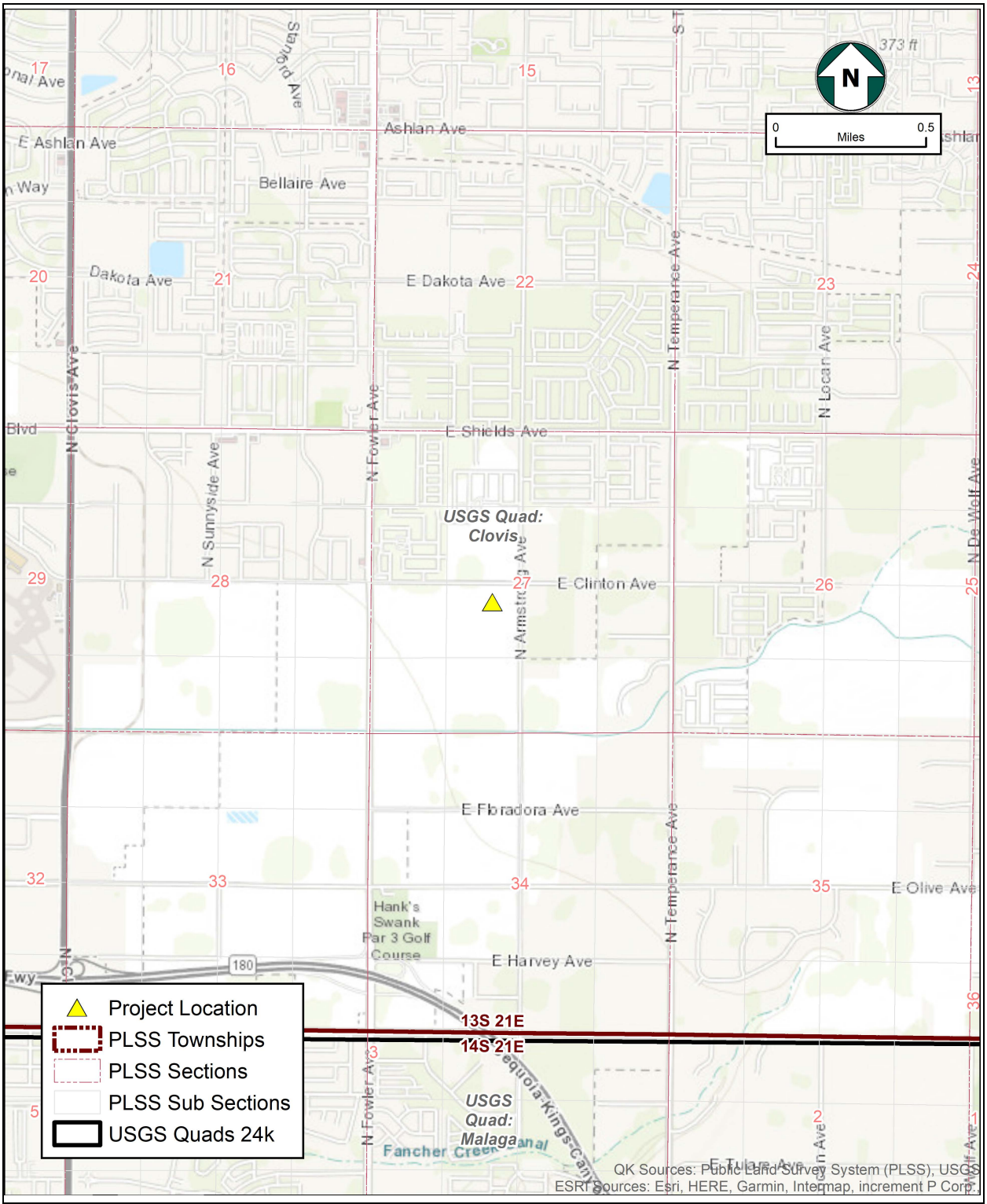


Figure - 3
PLSS/USGS Quad

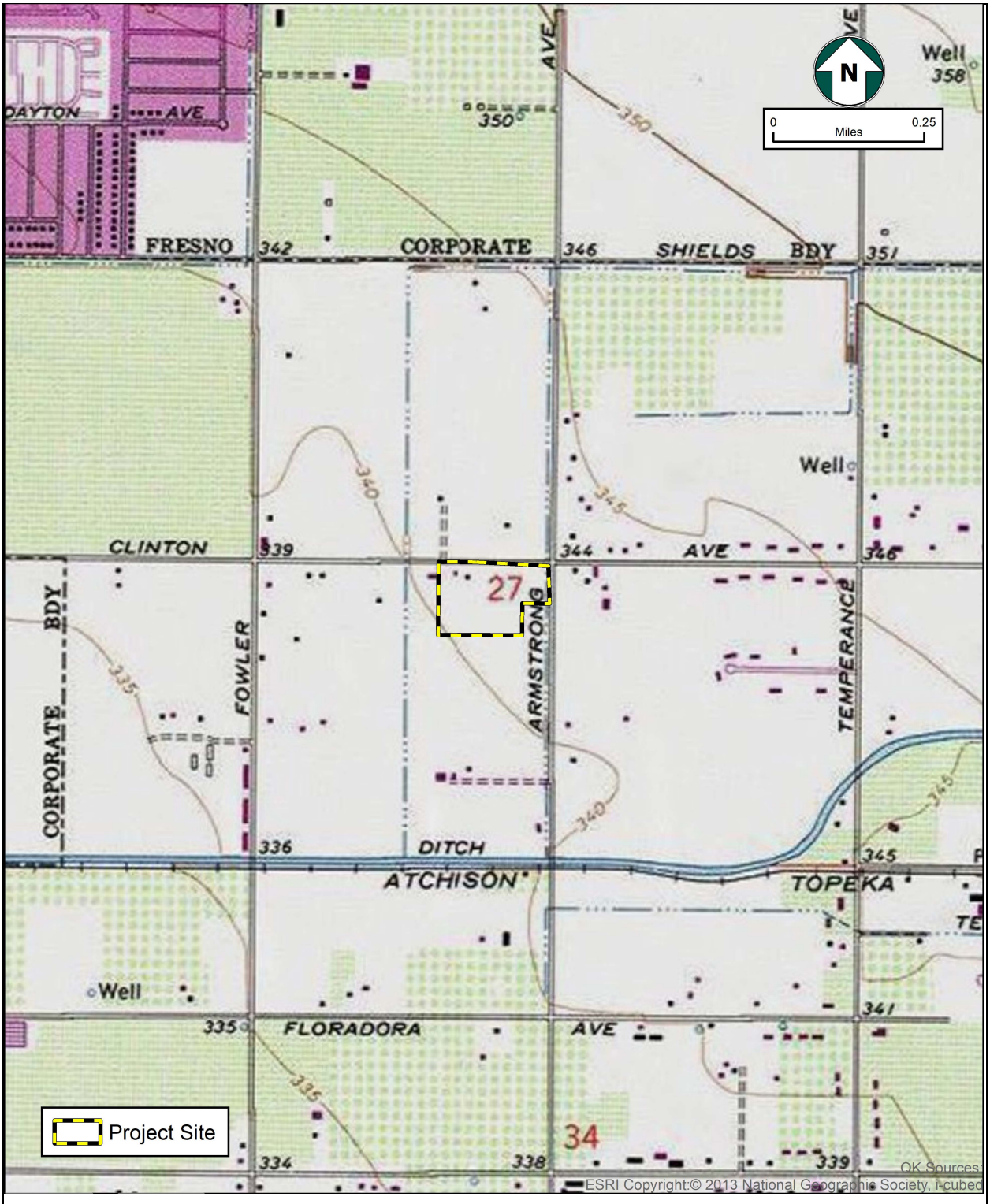


Figure - 4
Topo

TECHNICAL MEMORANDUM

Attachment B-
Sacred Lands File Response by the
Native American Heritage Commission

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

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

May 12, 2022

Jaymie Brauer
Quad Knopf, Inc.

Via Email to: jaymie.brauer@qkinc.com

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Vesting Tentative Subdivision Map 6400 Project, Fresno County

Dear Mr. Brauer:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

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 AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (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 that 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 any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Tribal Consultation List
Fresno County
5/12/2022

Big Sandy Rancheria of Western Mono Indians
Elizabeth Kipp, Chairperson
P.O. Box 337
Auberry, CA, 93602
Phone: (559) 374 - 0066
Fax: (559) 374-0055
lkipp@bsrnation.com
Western Mono

Cold Springs Rancheria of Mono Indians
Carol Bill, Chairperson
P.O. Box 209
Tollhouse, CA, 93667
Phone: (559) 855 - 5043
Fax: (559) 855-4445
coldsprgstribe@netptc.net
Mono

Dumna Wo-Wah Tribal Government
Robert Ledger, Chairperson
2191 West Pico Ave.
Fresno, CA, 93705
Phone: (559) 540 - 6346
ledgerrobert@ymail.com
Foothill Yokut
Mono

Kings River Choinumni Farm Tribe
Stan Alec,
3515 East Fedora Avenue
Fresno, CA, 93726
Phone: (559) 647 - 3227
Foothill Yokut

North Valley Yokuts Tribe
Timothy Perez,
P.O. Box 717
Linden, CA, 95236
Phone: (209) 662 - 2788
huskanam@gmail.com
Costanoan
Northern Valley
Yokut

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717
Linden, CA, 95236
Phone: (209) 887 - 3415
canutes@verizon.net
Costanoan
Northern Valley
Yokut

Picayune Rancheria of Chukchansi Indians
Claudia Gonzales, Chairwoman
P.O. Box 2226
Oakhurst, CA, 93644
Phone: (559) 412 - 5590
cgonzales@chukchansitribe.net
Foothill Yokut

Table Mountain Rancheria
Brenda Lavell, Chairperson
P.O. Box 410
Friant, CA, 93626
Phone: (559) 822 - 2587
Fax: (559) 822-2693
rpennell@tmr.org
Yokut

Traditional Choinumni Tribe
David Alvarez, Chairperson
2415 E. Houston Avenue
Fresno, CA, 93720
Phone: (559) 217 - 0396
Fax: (559) 292-5057
davealvarez@sbcglobal.net
Foothill Yokut

Tule River Indian Tribe
Neil Peyron, Chairperson
P.O. Box 589
Porterville, CA, 93258
Phone: (559) 781 - 4271
Fax: (559) 781-4610
neil.peyron@tulerivertribe-nsn.gov
Yokut

Wuksache Indian Tribe/Eshom Valley Band
Kenneth Woodrow, Chairperson
1179 Rock Haven Ct.
Salinas, CA, 93906
Phone: (831) 443 - 9702
kwood8934@aol.com
Foothill Yokut
Mono

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Vesting Tentative Subdivision Map 6400 Project, Fresno County.

Appendix D

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED TRACT 6400
CLINTON AND ARMSTRONG AVENUES
FRESNO, CALIFORNIA

PROJECT NO. 012-21317
APRIL 6, 2022

Prepared for:

MR. BRANDON DE YOUNG
DE YOUNG PROPERTIES
677 W. PALMDON DRIVE #208
FRESNO, CALIFORNIA 93704

Prepared by:

KRAZAN & ASSOCIATES, INC.
GEOTECHNICAL ENGINEERING DIVISION
215 WEST DAKOTA AVENUE
CLOVIS, CALIFORNIA 93612
(559) 348-2200

Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

April 6, 2022

KA No. 012-21317

Mr. Brandon De Young
De Young Properties
677 W. Palmdon Drive #208
Fresno, California 93704

RE: Geotechnical Engineering Investigation
Proposed Tract 6400
Clinton and Armstrong Avenues
Fresno, California

Dear Mr. De Young:

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the above-referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (559) 348-2200.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



David R. Jarosz, II
Managing Engineer
RGE No. 2698/RCE No. 60185

DRJ:ht

TABLE OF CONTENTS

INTRODUCTION 1

PURPOSE AND SCOPE 1

PROPOSED CONSTRUCTION 2

SITE LOCATION, SITE HISTORY AND SITE DESCRIPTION 2

GEOLOGIC SETTING 2

FIELD AND LABORATORY INVESTIGATIONS 4

SOIL PROFILE AND SUBSURFACE CONDITIONS 4

GROUNDWATER 5

CONCLUSIONS AND RECOMMENDATIONS 5

Administrative Summary 5
Groundwater Influence on Structures/Construction 6
Site Preparation 6
Engineered Fill 8
Drainage and Landscaping 9
Utility Trench Backfill 9
Foundations 10
Floor Slabs and Exterior Flatwork 10
Lateral Earth Pressures and Retaining Walls 11
Seismic Parameters – 2019 CBC 12
Soil Cement Reactivity 13
Compacted Material Acceptance 13
Testing and Inspection 13

LIMITATIONS 13

SITE PLAN 15

LOGS OF BORINGS (1 TO 6) ..... **Appendix A**

GENERAL EARTHWORK SPECIFICATIONS ..... **Appendix B**

GENERAL PAVEMENT SPECIFICATIONS ..... **Appendix C**

April 6, 2022 KA Project No. 012-21317

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED TRACT 6400
CLINTON AND ARMSTRONG AVENUES
FRESNO, CALIFORNIA

INTRODUCTION

This report presents the results of our Geotechnical Engineering Investigation for the proposed residential development, identified as Tract 6400 to be located at the southwest corner of Clinton Avenue and Armstrong Avenue in Fresno, California. Discussions regarding site conditions are presented herein, together with conclusions and recommendations pertaining to site preparation, Engineered Fill, utility trench backfill, drainage and landscaping, foundations, concrete floor slabs and exterior flatwork, retaining walls, and soil cement reactivity.

A site plan showing the approximate boring locations is presented following the text of this report. A description of the field investigation, boring logs and the boring log legend are presented in Appendix A. Appendix A contains a description of laboratory testing phase of this study; along with laboratory test results. Appendices B and C contain guides to earthwork and pavement specifications. When conflicts in the text of the report occur with the general specifications in the appendices, the recommendations in the text of the report have precedence.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the soil and groundwater conditions at the site, to make geotechnical engineering recommendations for use in design of specific construction elements and to provide criteria for site preparation and Engineered Fill construction.

Our scope of services was outlined in our proposal dated December 3, 2021 (KA Proposal No. P925-21) and included the following:

- A site reconnaissance by a member of our engineering staff to evaluate the surface conditions at the project site.
- A field investigation consisting of drilling 6 borings to depths ranging from approximately 10 to 20 feet for evaluation of the subsurface conditions at the project site.
- Performing laboratory tests on representative soil samples obtained from the borings to evaluate the physical and index properties of the subsurface soils.

- Evaluation of the data obtained from the investigation and an engineering analysis to provide recommendations for use in the project design and preparation of construction specifications.

- Preparation of this report summarizing the results, conclusions, recommendations, and findings of our investigation.

PROPOSED CONSTRUCTION

We understand that design of the proposed development is currently underway; structural load information and other final details pertaining to the structures are unavailable. On a preliminary basis, it is understood that development will consist of single-family residential lots. It is anticipated the buildings will be single- or two-story wood-framed structures utilizing concrete slab-on-grade construction. Footing loads are anticipated to be light to moderate. On-site paved areas and landscaping are also planned for the development of the project.

In the event these structural or grading details are inconsistent with the final design criteria, the Soils Engineer should be notified so that we may update this writing as applicable.

SITE LOCATION, SITE HISTORY AND SITE DESCRIPTION

The site is rectangular in shape and encompasses approximately 11.3 acres. The site is located at the southwest corner of Clinton Avenue and Armstrong Avenue in Fresno, California. Rural residential developments are located north and west of the site. The remainder of the site is predominately surrounded agricultural land.

Site history was obtained by reviewing historical aerial photographs taken in 1998, 2007, 2017 and 2021. Review of the 1998 aerial photograph indicates that the project site predominately consisted of agricultural land. Portions of a rural residential development were located in the northwest portion of the site.

Review of the 2007, 2017 and 2021 aerial photographs indicate that the project site conditions appeared relatively similar to that noted in the 1998 aerial photograph.

Presently, the site predominately consists of agricultural land. A rural residential development with several barns and sheds is located in the northwest portion of the site. Trees and shrubs are located within the northwest portion of the site. Portions of the site are covered by a recently harvest oat crop and the surface soils have a loose consistency. The site is relatively level with no major changes in grade.

GEOLOGIC SETTING

The San Joaquin Valley, which includes the Fresno area, is a topographic and structural basin that is bounded on the east by the Sierra Nevada and on the west by the Coast Ranges. The Sierra Nevada, a fault block dipping gently southwestward, is made up of igneous and metamorphic rocks of pre-Tertiary age that comprise the basement complex beneath the Valley. The Coast Ranges contain folded and

faulted sedimentary rocks of Mesozoic and Cenozoic age, which are similar to those rocks that underlie the Valley at depth and nonconformably overlie the basement complex; gently dipping to nearly horizontal sedimentary rocks of Tertiary and Quaternary age overlie the older rocks. These younger rocks are mostly of continental origin and in the Fresno area, they were derived from the Sierra Nevada.

The San Joaquin River is the principal river in the area. Alluvial fans formed by this river are the largest geomorphic features in the Fresno area. The formation of the fans has resulted in rather flat regional topography.

The Coast Ranges evolved as a result of folding, faulting and accretion of diverse geologic terrains. They are composed chiefly of sedimentary and metamorphic rocks that are sharply deformed into complex structures. They are broken by numerous faults, the San Andreas Fault being the most notable structural feature.

Both the Sierra Nevada and Coast Range are geologically young mountain ranges and possess active and potentially active fault zones. Major active faults and fault zones occur at some distance to the east, west and south of the Fresno area. The Owens Valley Fault Zone bounds the eastern edge of the Sierra Nevada block and contains both active and potentially active faults.

Portions of the Ortigalita, Calaveras, Hayward and Rinconada Faults, which are to the west, are considered potentially active. The San Andreas Fault is possibly the best-known fault and is located approximately 60 to 70 miles to the west.

There are no active fault traces in the project vicinity. Accordingly, the project area is not within an Earth Quake Fault Zone (Special Studies Zone) and will not require a special site investigation by an Engineering Geologist.

Fresno residents could feel the effects of a large seismic event on one of the nearby active or potentially active fault zones. Fresno has experienced groundshaking from earthquakes in the historical past. According to the Five County Seismic Safety Element, groundshaking of VII intensity (Modified Mercali Scale) was felt in Fresno from the 1872 Owens Valley Earthquake. This is the largest known earthquake event affecting the Fresno area.

Secondary hazards from earthquakes include rupture, seiche, landslides, liquefaction and subsidence. Since there are no known faults within the immediate area, ground rupture from surface faulting should not be a potential problem. Seiche and landslides are not hazards in the area either. Liquefaction potential (sudden loss of shear strength in a saturated cohesionless soil) should be low since groundwater occurs below 60 feet. Lastly, deep subsidence problems may be low to moderate according to the conclusions of the Five County Seismic Safety Element. However, there are no known occurrences of structural or architectural damage due to deep subsidence in the Fresno area.

FIELD AND LABORATORY INVESTIGATIONS

Subsurface soil conditions were explored by drilling 6 borings to depths ranging from approximately 10 to 20 feet below existing site grade, using a truck-mounted drill rig. In addition, 2 bulk subgrade samples were obtained from the site for laboratory R-value testing. The approximate boring and bulk sample locations are shown on the site plan. During drilling operations, penetration tests were performed at regular intervals to evaluate the soil consistency, obtain information regarding the engineering properties of the subsoils and to retain soil samples for laboratory testing. The soils encountered were continuously examined and visually classified in accordance with the Unified Soil Classification System. A more detailed description of the field investigation is presented in Appendix A.

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory-testing program was formulated with emphasis on the evaluation of natural moisture, density, gradation, shear strength, consolidation potential, expansion potential, R-value and moisture-density relationships of the materials encountered. In addition, chemical tests were performed to evaluate the soil-cement reactivity. Details of the laboratory test program and the results of laboratory test are summarized in Appendix A. This information, along with the field observations, was used to prepare the final boring logs in Appendix A.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Based on our findings, the subsurface conditions encountered appear typical of those found in the geologic region of the site. In general, the upper soils consisted of approximately 6 to 12 inches of very loose silty sand, silty sand with trace clay or clayey sand. These soils are disturbed, have low strength characteristics and are highly compressible when saturated.

Below the loose surface soils, approximately 2 to 3 feet of loose to very dense silty sand, silty sand with trace clay and clayey sand were encountered. Field and laboratory tests suggest that these soils are moderately strong and slightly compressible. The clayey soils have a low to moderate potential for expansion. Penetration resistance ranged from 5 to 71 blows per foot. Dry densities ranged from 106 to 126 pcf. A representative soil sample consolidated approximately 3½ percent under a 2 ksf load when saturated. A representative soil sample had an angle of internal friction of 35 degrees. Representative samples of the clayey soils had expansion indices of 11 to 36.

Below approximately 3 to 4 feet, layers of predominately loose to very dense silty sand, sandy silt, silty sand with trace clay, gravelly sand and silty sand/sand were encountered. Some of the soils below 4 feet were weakly cemented. Field and laboratory tests suggest that these soils are moderately strong and slightly compressible. Penetration resistance ranged from 8 blows per foot to greater than 50 blows per 6 inches. Dry densities ranged from 103 to 124 pcf. These soils had similar strength characteristics to the upper soils and extended to the termination depth of our borings.

For additional information about the soils encountered, please refer to the logs of borings in Appendix A.

GROUNDWATER

Test boring locations were checked for the presence of groundwater during and immediately following the drilling operations. Free groundwater was not encountered.

Cemented silty sand with trace clay, locally referred to as "hardpan," is known to be located in the vicinity of the site. This cementation retards the free percolation of the surface water into the soil stratum below the hardpan frequently resulting in a temporary perched water table condition at or near the ground surface.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our field and laboratory investigations, along with previous geotechnical experience in the project area, the following is a summary of our evaluations, conclusions, and recommendations.

Administrative Summary

In brief, the subject site and soil conditions, with the exception of the loose surface soils, expansive nature of the clayey soils, previous development and existing development, appear to be conducive to the development of the project. The surface soils have a loose consistency. These soils are disturbed, have low strength characteristics and are highly compressible when saturated. Accordingly, it is recommended that the surface soils be recompacted. This compaction effort should stabilize the surface soils and locate any unsuitable or pliant areas not found during our field investigation.

Fill material was not encountered in our borings. However, fill may be present between and beyond our boring locations. The extent of fill material was determined based on limited test borings and visual observation. Verification of the extent of fill should be determined during site grading. It is recommended that fill soils be excavated and stockpiled so that the native soils can be prepared properly. It is anticipated the fill material will be suitable for reuse as Engineered Fill, provided it is cleansed of excessive organics and debris. However, soils with an expansion index of 20 or greater should not be used in the upper 12 inches of soil supporting slabs-on-grade and exterior flatwork.

Silty sand with clay and clayey sand were encountered within portions of the site. These clayey soils appear to have a low to moderate swell potential. The estimated swell pressures of the clayey soils may cause minor movement affecting slabs and possible stucco or similar brittle exterior finishes. To reduce potential soil movement, it is recommended the upper 12 inches of soil within slab-on-grade and exterior flatwork areas consist of non-expansive Engineered Fill. The on-site silty sand soils with trace clay appear to be suitable for reuse as non-expansive Engineered Fill, provided they are cleansed of excessive

organics and debris. However, it may be difficult for the grading contractor to separate these materials during mass grading operations. During construction, it is recommended that additional tests be performed on the on-site soils to verify their physical and index properties.

The site is presently utilized as agricultural land. In addition, a rural residential development is located in the northwest portion of the site. Associated with these developments are buried structures, such as utility lines, irrigation lines, possible septic systems and water wells that may extend into the site. Demolition activities should include proper removal of any buried structures. The resulting excavations should be backfilled with Engineered Fill. It is suspected that demolition activities of the existing structures will disturb the upper soils. Following demolition activities, it is recommended that the disturbed soils be removed and/or recompacted. Any buried structures, including loosely backfilled excavations, encountered during construction should be properly removed and the resulting excavations backfilled with Engineered Fill. Disturbed areas caused by demolition activities should be recompacted.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy soils.

After completion of the recommended site preparation, the site should be suitable for shallow footing support. The proposed structure footings may be designed utilizing an allowable bearing pressure of 2,000 psf for dead-plus-live loads. Footings should have a minimum embedment of 12 inches.

Groundwater Influence on Structures/Construction

Based on our findings and historical records, it is not anticipated that groundwater will rise within the zone of structural influence or effect the construction of foundations or pavements for the project. However, if earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated, "pump," or not respond to densification techniques. Typical remedial measures include: discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material; or mixing the soil with an approved lime or cement product. Our firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Some structures in the Fresno area that are founded on hardpan have experienced standing water for extended periods of time in crawl spaces below wooden floors or within sunken floor slab areas. The sources of the water were natural precipitation and landscape irrigation and, consequently, wood floor, sunken floor slab construction in hardpan soils is discouraged.

Site Preparation

General site clearing should include removal of vegetation; existing utilities; concrete structures including foundations; basement walls and floors; existing stockpiled soil; trees and associated root systems; rubble; rubbish; and any loose and/or saturated materials. Site stripping should extend to a minimum depth of 2 to 4 inches, or until all organics in excess of 3 percent by volume are removed.

Deeper stripping may be required in localized areas. These materials will not be suitable for use as Engineered Fill. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas.

Fill material was not encountered in our borings. However, fill may be present between and beyond our boring locations. The extent of fill material was determined based on limited test borings and visual observation. Verification of the extent of fill should be determined during site grading. It is recommended that fill soils be excavated and stockpiled so that the native soils can be prepared properly. It is anticipated the fill material will be suitable for reuse as Engineered Fill, provided it is cleansed of excessive organics and debris. However, soils with an expansion index of 20 or greater should not be used in the upper 12 inches of soil supporting slabs-on-grade and exterior flatwork.

The site is presently utilized as agricultural land. In addition, a rural residential development is located in the northwest portion of the site. Associated with these developments are buried structures, such as utility lines, irrigation lines, water wells, and possible septic systems that may extend into the site. Demolition activities should include proper removal of any buried structures. Any buried structures encountered during construction should be properly removed and the resulting excavations backfilled. Excavations, depressions, or soft and pliant areas extending below planned finish subgrade level should be cleaned to firm undisturbed soil, and backfilled with Engineered Fill. In general, any septic tanks, debris pits, cesspools, or similar structures should be entirely removed. Concrete footings should be removed to an equivalent depth of at least 3 feet below proposed footing elevations or as recommended by the Soils Engineer. Water wells should be abandoned in accordance with county standards. Any other buried structures should be removed in accordance with the recommendations of the Soils Engineer. Resulting excavations should be backfilled with Engineered Fill.

Following stripping, fill removal, and demolition activities, the exposed subgrade within proposed building areas should be excavated to a depth of at least 12 inches, worked until uniform and free from large clods, moisture-conditioned to a minimum of 2 percent above optimum moisture content, and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. Limits of recompaction should extend 5 feet beyond structural elements. Prior to backfilling, the bottom of the excavation should be proofrolled and observed by Krazan & Associates, Inc. to verify stability. Soft or pliant areas should be excavated to firm native ground.

Following stripping, fill removal, and demolition activities, the exposed subgrade within proposed exterior flatwork and paved areas should be excavated/scarified to a depth of at least 12 inches, worked until uniform and free from large clods, moisture-conditioned to a minimum of 2 percent above optimum moisture content, and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. Limits of recompaction should extend 2 feet beyond flatwork and pavements.

Silty sand with clay and clayey sand were encountered within portions of the site. The clayey soils appeared to have a low to moderate swell potential. The estimated swell pressures of the clayey soils may cause minor movement affecting slabs and possible stucco or similar brittle exterior finishes. To reduce potential soil movement, it is recommended the upper 12 inches of soil within slab-on-grade and exterior flatwork areas consist of non-expansive Engineered Fill. The on-site silty sand with trace clay

soils appear to be suitable for reuse as non-expansive Engineered Fill, provided they are cleansed of excessive organics and debris. During construction, it is recommended that additional tests be performed on the on-site soils to verify their physical and index properties.

The upper soils, during wet winter months, become very moist due to the absorptive characteristics of the soil. Earthwork operations performed during winter months may encounter very moist unstable soils, which may require removal to grade a stable building foundation. Project site winterization consisting of placement of aggregate base and protecting exposed soils during the construction phase should be performed.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Soils Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section and the Engineered Fill section.

Engineered Fill

The on-site, upper native soils are predominately silty sand, silty sand with clay, and clayey sand. The on-site soils with an expansion index of less than 20 will be suitable for reuse as non-expansive Engineered Fill, provided they are cleansed of excessive organics and debris. However, it may be difficult for the grading contractor to separate these materials during mass grading operations. The on-site clayey soils with an expansion index of 20 or greater will not be suitable for reuse as non-expansive Engineered Fill. The clayey soils may be used for General Engineered Fill within non-structural areas, paved areas, and within slab-on-grade and exterior flatwork areas below 12 inches from finished pad grade, provided they are cleansed of excessive organics, debris and moisture-conditioned to a minimum of 2 percent above optimum moisture content. During construction it is recommended that additional tests be performed on the on-site soils to verify their physical and index properties.

The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since he has complete control of the project site at that time.

Imported Fill should consist of a well-graded, slightly cohesive, fine silty sand or sandy silt, with relatively impervious characteristics when compacted. This material should be approved by the Soils Engineer prior to use and should typically possess the following characteristics:

Percent Passing No. 200 Sieve	20 to 50
Plasticity Index	10 maximum
UBC Standard 29-2 Expansion Index	Less than 20

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to a minimum of 2 percent above optimum moisture content, and compacted to achieve at least 90 percent of maximum density based on ASTM D1557. Additional lifts should not be placed if the previous lift did not meet the required dry density or if soil conditions are not stable.

Drainage and Landscaping

The ground surface should slope away from building pad and pavement areas toward appropriate drop inlets or other surface drainage devices. In accordance with Section 1804 of the 2019 California Building Code, it is recommended that the ground surface adjacent to foundations be sloped a minimum of 5 percent for a minimum distance of 10 feet away from structures, or to an approved alternative means of drainage conveyance. Swales used for conveyance of drainage and located within 10 feet of foundations should be sloped a minimum of 2 percent. Impervious surfaces, such as pavement and exterior concrete flatwork, within 10 feet of building foundations should be sloped a minimum of 1 percent away from the structure. Drainage gradients should be maintained to carry all surface water to collection facilities and off-site. These grades should be maintained for the life of the project.

Slots or weep holes should be placed in drop inlets or other surface drainage devices in pavement areas to allow free drainage of adjoining base course materials. Cutoff walls should be installed at pavement edges adjacent to vehicular traffic areas, these walls should extend to a minimum depth of 12 inches below pavement subgrades to limit the amount of seepage water that can infiltrate the pavements. Where cutoff walls are undesirable subgrade drains can be constructed to transport excess water away from planters to drainage interceptors. If cutoff walls can be successfully used at the site, construction of subgrade drains is considered unnecessary.

Utility Trench Backfill

Utility trenches should be excavated according to accepted engineering practice following OSHA (Occupational Safety and Health Administration) standards by a Contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the Contractor. Traffic and vibration adjacent to trench walls should be reduced and cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy soils.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 90 percent of maximum density based on ASTM Test Method D1557. The utility trench backfill placed in pavement areas should be compacted to at least 90 percent of maximum density based on ASTM Test Method D1557. Pipe bedding should be in accordance with pipe manufacturer's recommendations.

The Contractor is responsible for removing all water sensitive soils from the trench regardless of the backfill location and compaction requirements. The Contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Foundations

The proposed structures may be supported on a shallow foundation system bearing on undisturbed native soils or Engineered Fill. Spread and continuous footings can be designed for the following maximum allowable soil bearing pressures:

Load	Allowable Loading
Dead Load Only	1,500 psf
Dead-Plus-Live Load	2,000 psf
Total Load, including wind or seismic loads	2,650 psf

The footings should have a minimum depth of 12 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 12 inches, regardless of load.

The footing excavations should not be allowed to dry out any time prior to pouring concrete. It is recommended that footings be reinforced by at least one No. 4 reinforcing bar in both top and bottom.

The total movement is not expected to exceed 1 inch. Differential movement should be less than 1 inch. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.35 acting between the base of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 300 pounds per cubic foot acting against the appropriate vertical footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. A ⅓ increase in the above value may be used for short duration, wind, or seismic loads.

Floor Slabs and Exterior Flatwork

In areas that will utilize moisture-sensitive floor coverings, concrete slab-on-grade floors should be underlain by a water vapor retarder. The water vapor retarder should be installed in accordance with accepted engineering practice. The water vapor retarder should consist of a vapor retarder sheeting underlain by a minimum of 3 inches of compacted, clean, gravel of ¾-inch maximum size. To aid in concrete curing an optional 2 to 4 inches of granular fill may be placed on top of the vapor retarder. The granular fill should consist of damp clean sand with at least 10 to 30 percent of the sand passing the 100

sieve. The sand should be free of clay, silt, or organic material. Rock dust which is manufactured sand from rock crushing operations is typically suitable for the granular fill. This granular fill material should be compacted.

The floor slab should be reinforced at a minimum with #3 reinforcement bars at 24 inches on-center each way within the slab's middle one-third. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. All fills required to bring the building pads to grade should be Engineered Fills.

Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor can travel through the vapor membrane and penetrate the slab-on-grade. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To reduce moisture vapor intrusion, it is recommended that a vapor retarder be installed. It is recommended that the utility trenches within the structure be compacted, as specified in our report, to reduce the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the building is recommended. Positive drainage should be established away from the structure and should be maintained throughout the life of the structure. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed. In addition, ventilation of the structure is recommended to reduce the accumulation of interior moisture.

Lateral Earth Pressures and Retaining Walls

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 40 pounds per square foot per foot of depth. Walls incapable of this deflection or are fully constrained walls against deflection may be designed for an equivalent fluid at-rest pressure of 60 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways.

Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12 inches and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic concrete, or other suitable backfill to reduce surface drainage into the wall drain system. The aggregate should conform to Class 2 permeable materials graded in accordance with CalTrans Standard Specifications (2018). Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu

of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The pipes should be placed no higher than 6 inches above the heel of the wall, in the center line of the drainage blanket and should have a minimum diameter of four inches. Collector pipes may be either slotted or perforated. Slots should be no wider than ⅛ inch in diameter, while perforations should be no more than ¼ inch in diameter. If retaining walls are less than 6 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 4-inch diameter holes (concrete walls) or unmortared head joints (masonry walls) and not be higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand-operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

Seismic Parameters – 2019 California Building Code

The Site Class per Section 1613 of the 2019 California Building Code (2019 CBC) and ASCE 7-16, Chapter 20 is based upon the site soil conditions. It is our opinion that a Site Class D is most consistent with the subject site soil conditions. For seismic design of the structures based on the seismic provisions of the 2019 CBC, we recommend the following parameters:

Seismic Item	Value	CBC Reference
Site Class	D	Section 1613.2.2
Site Coefficient F_a	1.364	Table 1613.2.3 (1)
S_S	0.545	Section 1613.2.1
S_{MS}	0.743	Section 1613.2.3
S_{DS}	0.495	Section 1613.2.4
Site Coefficient F_v	2.166	Table 1613.2.3 (2)
S_1	0.217	Section 1613.2.1
S_{M1}	0.470	Section 1613.2.3
S_{D1}	0.313	Section 1613.2.4
T_S	0.633	Section 1613.2

* Based on Equivalent Lateral Force (ELF) Design Procedure being used.

Soil Cement Reactivity

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete (or stucco) and the soil. HUD/FHA and UBC have developed criteria for evaluation of sulfate levels and how they relate to cement reactivity with soil and/or water.

Soil samples were obtained from the site and tested in accordance with State of California Materials Manual Test Designation 417. The sulfate concentrations detected in these soil samples were less than 150 ppm and are below the maximum allowable values established by HUD/FHA and UBC. Therefore, no special design requirements are necessary to compensate for sulfate reactivity with the cement.

Compacted Material Acceptance

Compaction specifications are not the only criteria for acceptance of the site grading or other such activities. However, the compaction test is the most universally recognized test method for assessing the performance of the Grading Contractor. The numerical test results from the compaction test cannot be used to predict the engineering performance of the compacted material. Therefore, the acceptance of compacted materials will also be dependent on the stability of that material. The Soils Engineer has the option of rejecting any compacted material regardless of the degree of compaction if that material is considered to be unstable or if future instability is suspected. A specific example of rejection of fill material passing the required percent compaction is a fill which has been compacted with an in-situ moisture content significantly less than optimum moisture. This type of dry fill (brittle fill) is susceptible to future settlement if it becomes saturated or flooded.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions are consistent with the exploratory fieldwork. This activity is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of these recommendations is incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor.

LIMITATIONS

Soils Engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences advance. Although your site was analyzed using the most appropriate and most current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to advancements in the field of Soils Engineering, physical changes in the site, either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the soils report is completed may require the soils report to be professionally reviewed. In light of this, the Owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that 2 years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those disclosed during our field investigation. If any variations or undesirable conditions are encountered during construction, the Soils Engineer should be notified so that supplemental recommendations may be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may not be valid. The Soils Engineer should be notified of any changes so the recommendations may be reviewed and re-evaluated.

This report is a Geotechnical Engineering Investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

If you have any questions or if we may be of further assistance, please do not hesitate to contact our office at (559) 348-2200.

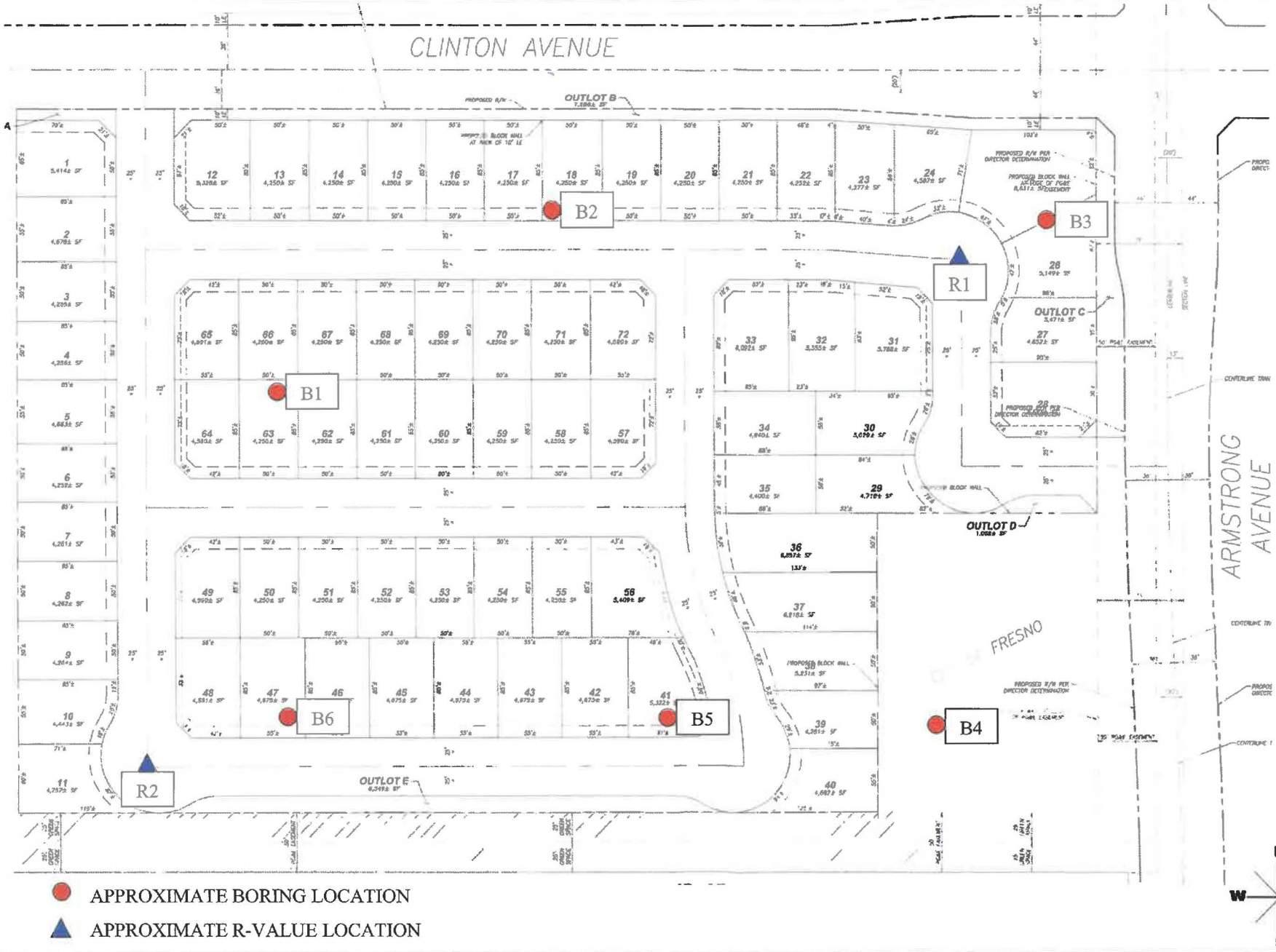
Respectfully submitted,
KRAZAN & ASSOCIATES, INC.

Steve Nelson
Project Engineer



David R. Jarosz, II
Managing Engineer
RGE No. 2698/RCE No. 60185

SN/DRJ:ht



SITE MAP	**Scale:** NTS	**Date:** April 2022	Krazan GEOTECHNICAL ENGINEERING
Tract 6400 **Clinton and Armstrong Avenues** **Fresno, California**	**Drawn by:** HT	**Approved by:** DJ	
	Project No. 012-21317	**Figure No.** 1	

APPENDIX A

FIELD AND LABORATORY INVESTIGATIONS

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploratory program. Six 4½-inch exploratory borings were advanced. The boring locations are shown on the site plan.

The soils encountered were logged in the field during the exploration and, with supplementary laboratory test data, are described in accordance with the Unified Soil Classification System.

Modified standard penetration tests were performed at selected depths. This test represents the resistance to driving a 2½-inch diameter core barrel sampler. The driving energy was provided by a hammer weighing 140 pounds falling 30 inches. Relatively undisturbed soil samples were obtained while performing this test. Bag samples of the disturbed soil were obtained from the auger cuttings. All samples were returned to our Clovis laboratory for evaluation.

Laboratory Investigation

The laboratory investigation was programmed to determine the physical and mechanical properties of the foundation soil underlying the site. Test results were used as criteria for determining the engineering suitability of the surface and subsurface materials encountered.

In-situ moisture content, dry density, consolidation, direct shear and sieve analysis tests were completed for the undisturbed samples representative of the subsurface material. Expansion index and R-value tests were completed for select bag samples obtained from the auger cuttings. These tests, supplemented by visual observation, comprised the basis for our evaluation of the site material.

The logs of the exploratory borings and laboratory determinations are presented in this Appendix.

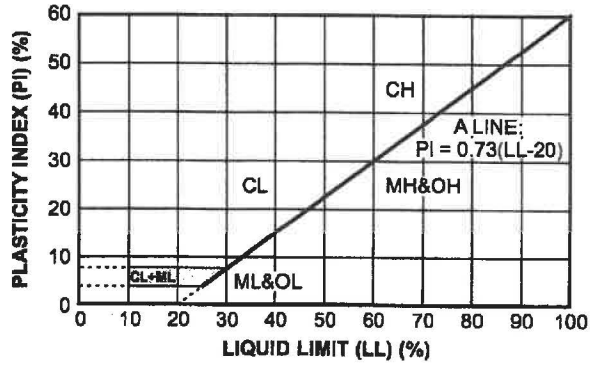
UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART			
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

CONSISTENCY CLASSIFICATION	
Description	**Blows per Foot**
Granular Soils	
Very Loose	< 5
Loose	5 – 15
Medium Dense	16 – 40
Dense	41 – 65
Very Dense	> 65
Cohesive Soils	
Very Soft	< 3
Soft	3 – 5
Firm	6 – 10
Stiff	11 – 20
Very Stiff	21 – 40
Hard	> 40

GRAIN SIZE CLASSIFICATION		
Grain Type	*Standard Sieve Size*	*Grain Size in Millimeters*
Boulders	Above 12 inches	Above 305
Cobbles	12 to 13 inches	305 to 76.2
Gravel	3 inches to No. 4	76.2 to 4.76
Coarse-grained	3 to ¾ inches	76.2 to 19.1
Fine-grained	¾ inches to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
Coarse-grained	No. 4 to No. 10	4.76 to 2.00
Medium-grained	No. 10 to No. 40	2.00 to 0.042
Fine-grained	No. 40 to No. 200	0.042 to 0.074
Silt and Clay	Below No. 200	Below 0.074

PLASTICITY CHART



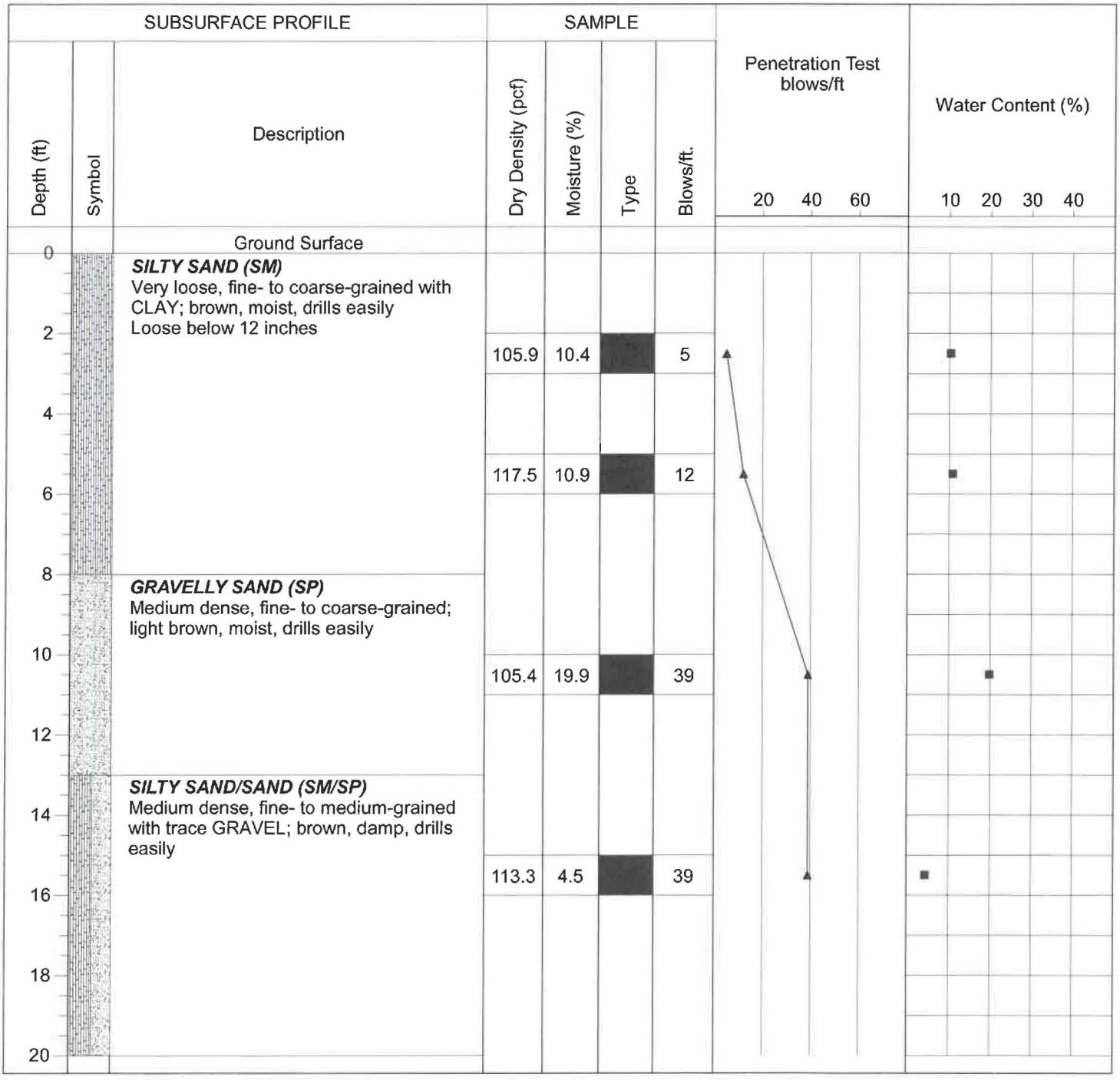
Log of Boring B1

Project: Tract 6400 **Project No:** 012-21317

Client: De Young Properties **Figure No.:** A-1

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None



Drill Method: Solid Flight **Drill Date:** 3-21-22

Drill Rig: CME 45C **Krazan and Associates** **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 20 Feet

Sheet: 1 of 1

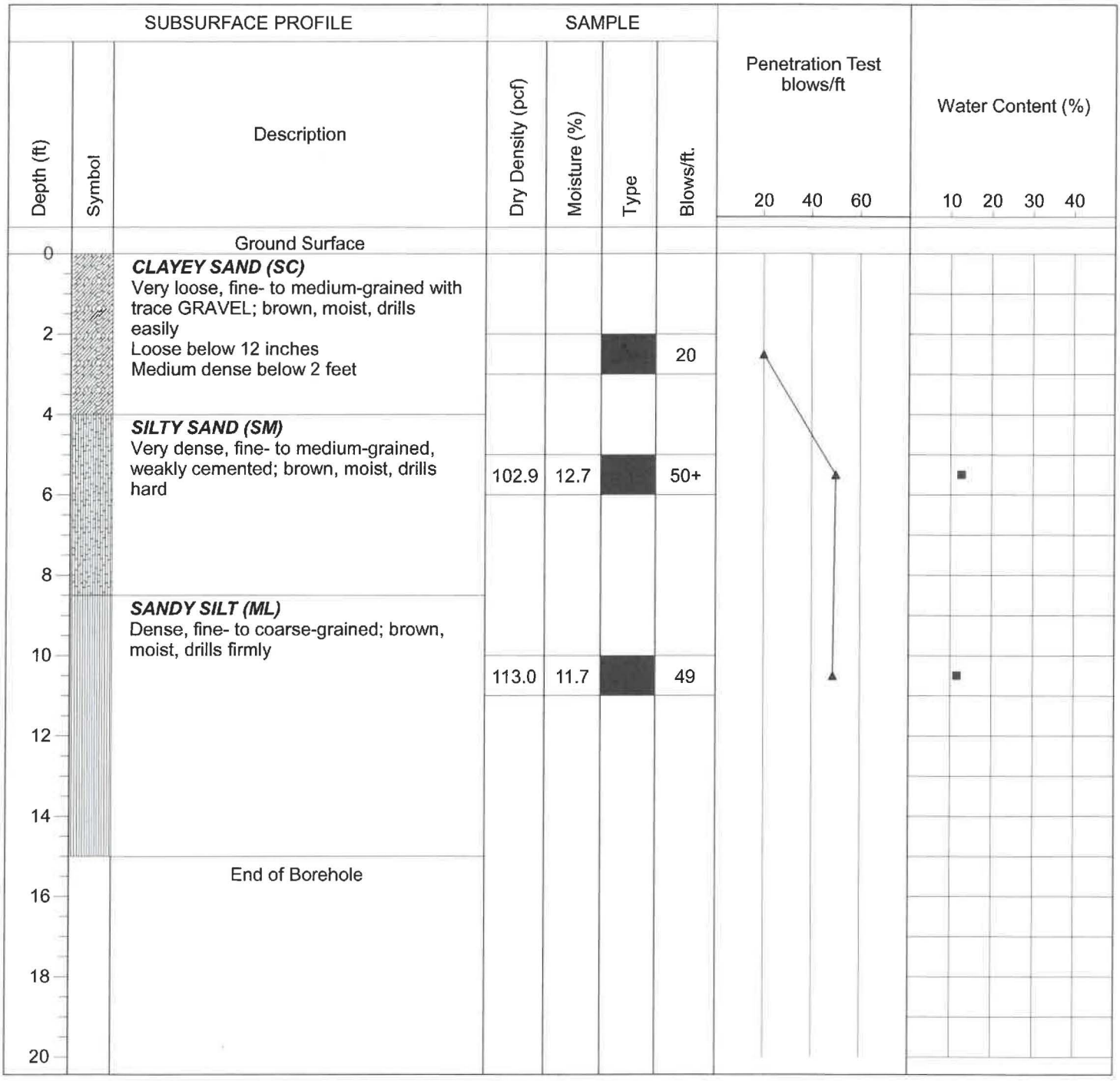
Log of Boring B2

Project: Tract 6400 **Project No:** 012-21317

Client: De Young Properties **Figure No.:** A-2

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None



Drill Method: Solid Flight **Drill Date:** 3-21-22

Drill Rig: CME 45C **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 15 Feet

Krazan and Associates

Sheet: 1 of 1

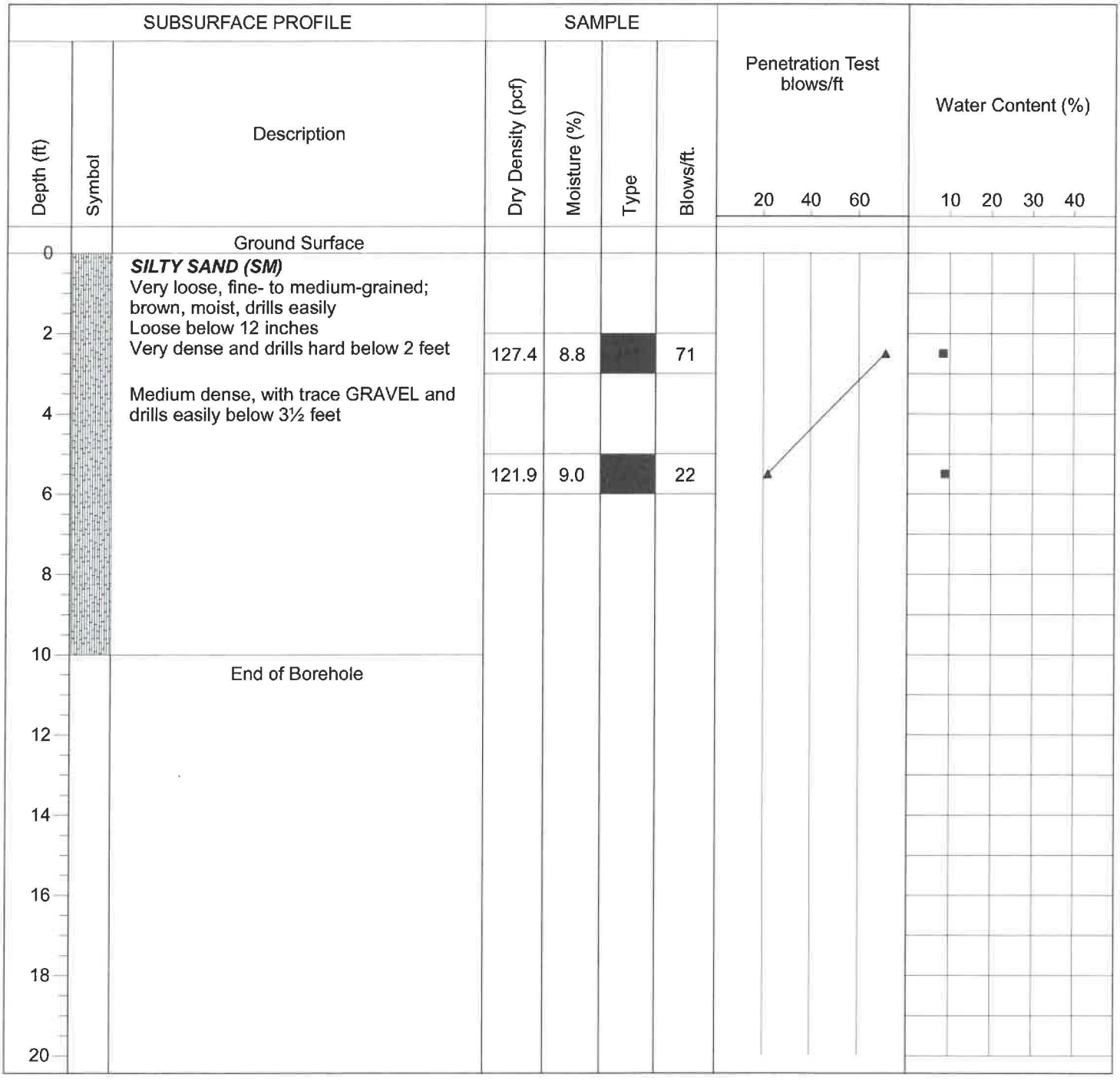
Log of Boring B3

Project: Tract 6400 **Project No:** 012-21317

Client: De Young Properties **Figure No.:** A-3

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None



Drill Method: Solid Flight **Drill Date:** 3-21-22

Drill Rig: CME 45C **Krazan and Associates** **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 10 Feet

Sheet: 1 of 1

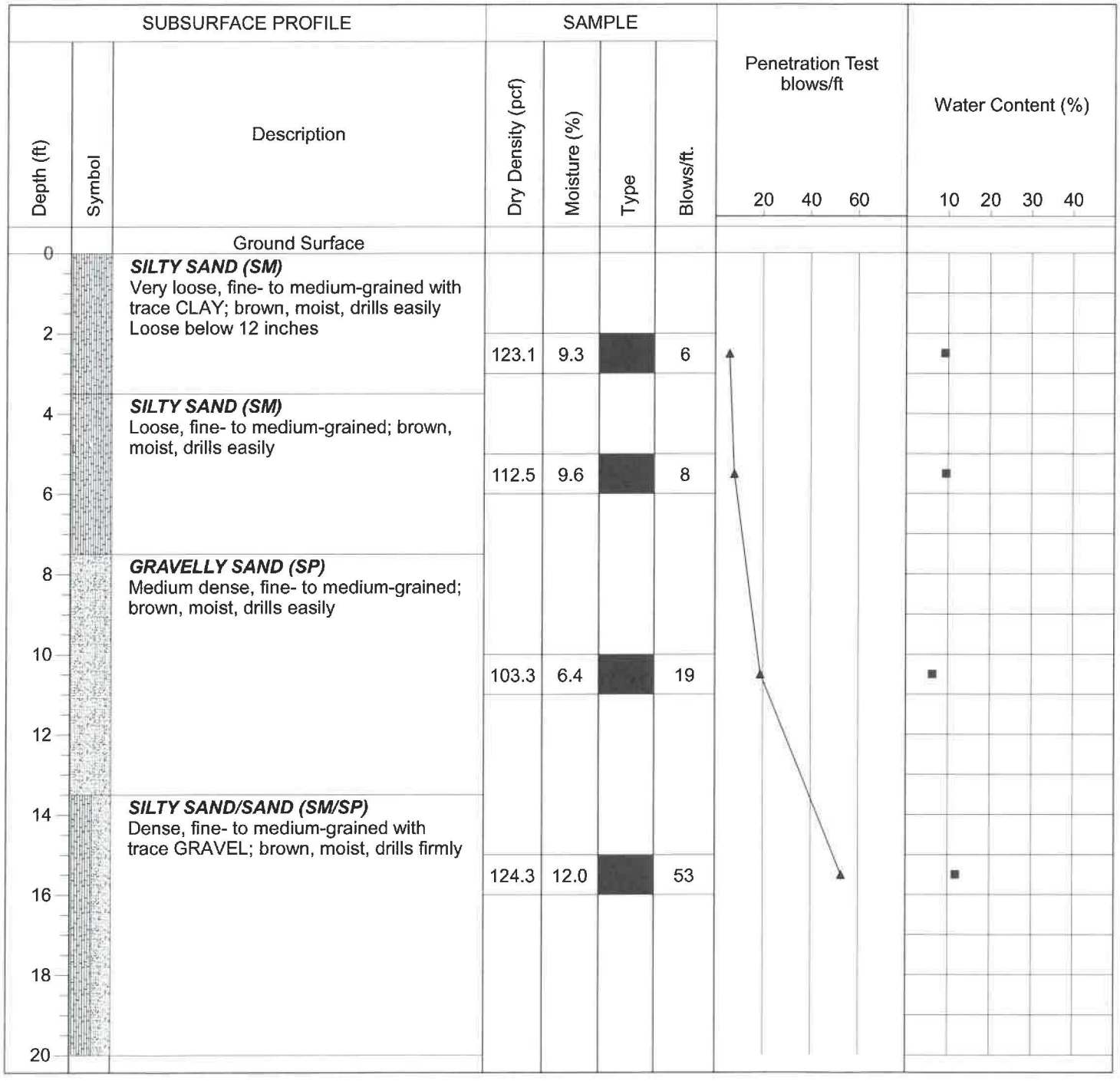
Log of Boring B4

Project: Tract 6400 **Project No:** 012-21317

Client: De Young Properties **Figure No.:** A-4

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None



Drill Method: Solid Flight **Drill Date:** 3-21-22

Drill Rig: CME 45C **Krazan and Associates** **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 20 Feet

Sheet: 1 of 1

Log of Boring B5

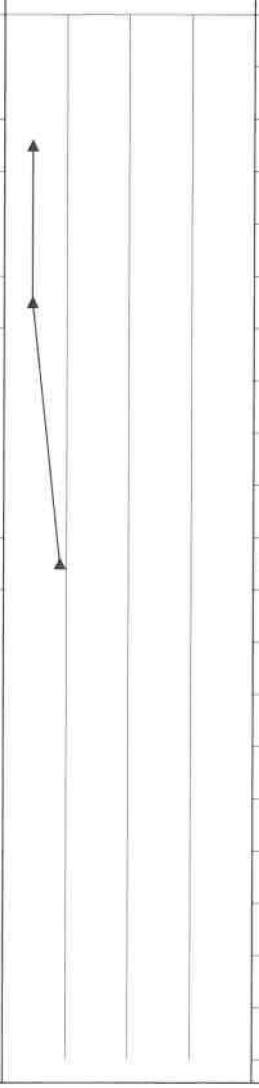
Project: Tract 6400 **Project No:** 012-21317

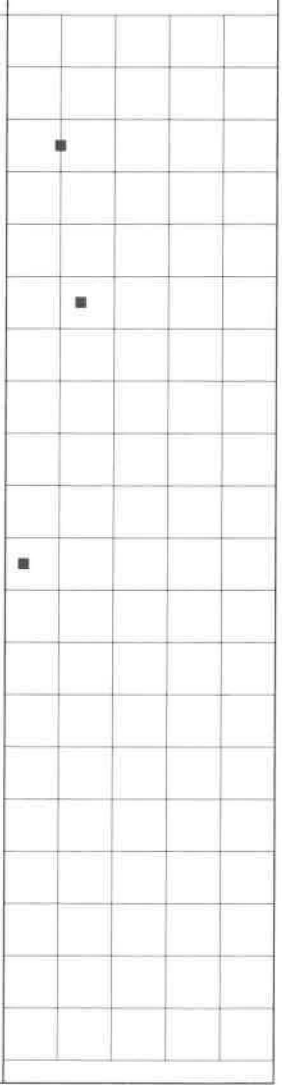
Client: De Young Properties **Figure No.:** A-5

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
0		***SILTY SAND (SM)*** Very loose, fine- to medium-grained with trace CLAY; brown, moist, drills easily				
2		Loose below 12 inches	126.1	10.0		9
4		With no CLAY below 3½ feet	116.1	13.9		9
6						
8		Medium dense with trace GRAVEL below 8 feet	105.2	3.4		18
10						
12						
14						
16		End of Borehole				
18						
20						





Drill Method: Solid Flight **Drill Date:** 3-21-22

Drill Rig: CME 45C **Krazan and Associates** **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 15 Feet

Sheet: 1 of 1

Log of Boring B6

Project: Tract 6400 **Project No:** 012-21317

Client: De Young Properties **Figure No.:** A-6

Location: Clinton and Armstrong Avenues, Fresno, California **Logged By:** Erick Escobar

Depth to Water> **Initial:** None **At Completion:** None

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
		SILTY SAND (SM) Very loose, fine- to medium-grained with trace CLAY; brown, moist, drills easily Loose below 12 inches				
2			124.2	11.7		8
		Medium dense with no CLAY below 3½ feet				
4						
			117.1	11.4		17
6						
8						
10		End of Borehole				
12						
14						
16						
18						
20						

Penetration Test blows/ft: 20 40 60

Water Content (%): 10 20 30 40

Drill Method: Solid Flight **Drill Date:** 3-21-22

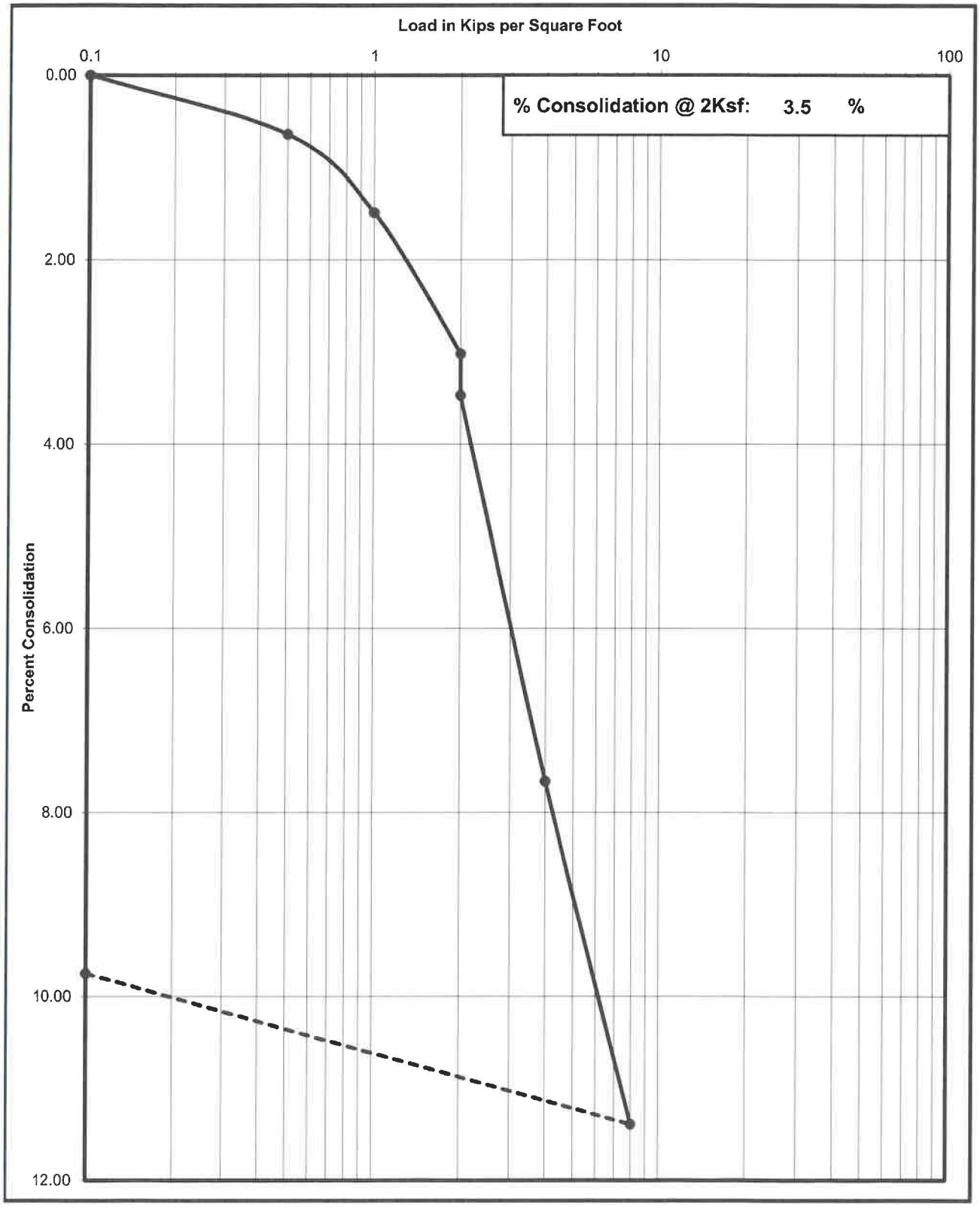
Drill Rig: CME 45C **Krazan and Associates** **Hole Size:** 4½ Inches

Driller: Eddie Tapia **Elevation:** 10 Feet

Sheet: 1 of 1

Consolidation Test

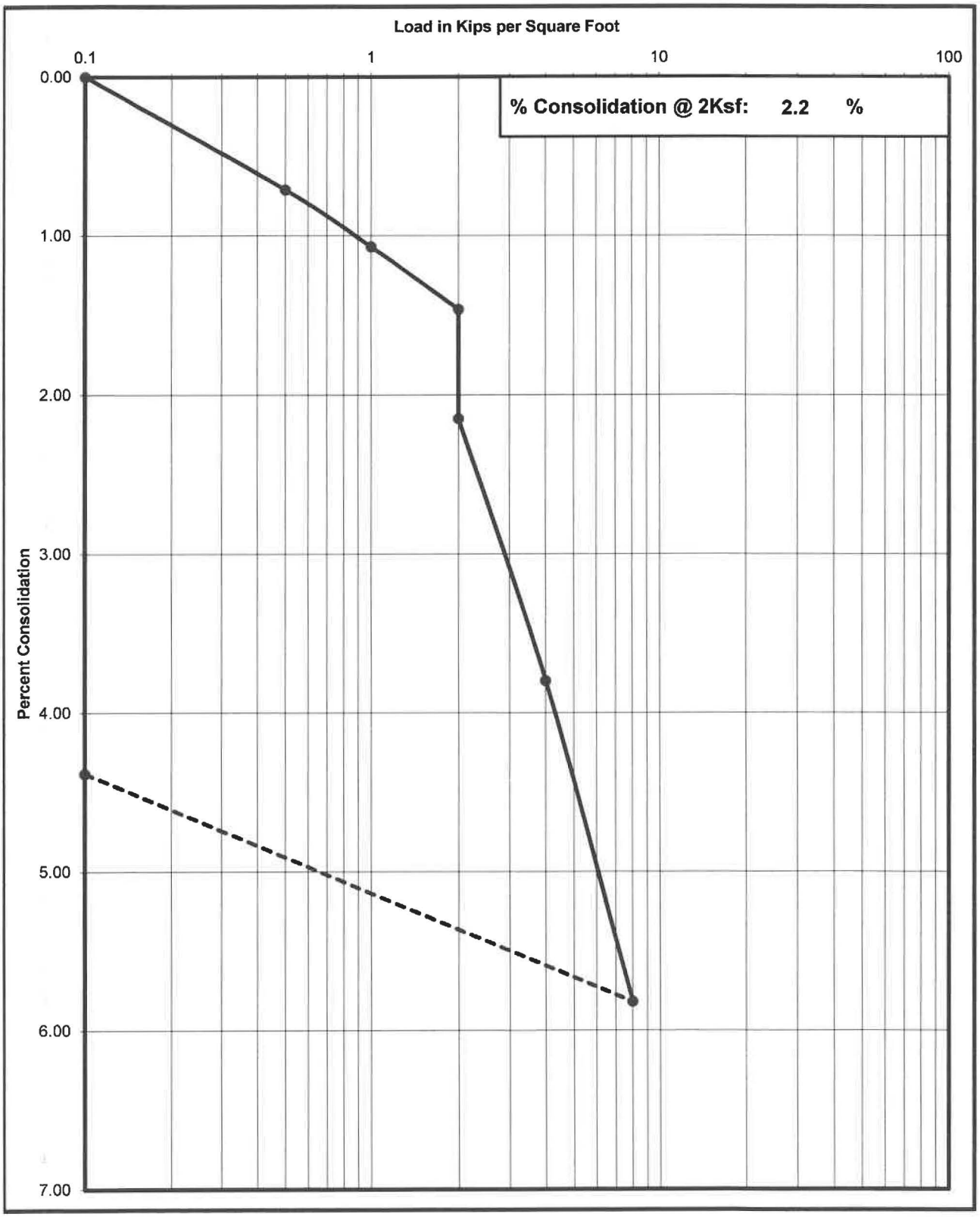
Project No	Boring No. & Depth	Date	Soil Classification
012-21317	B1 @ 2-3'	3/31/2022	SM w/ clay



Krazan Testing Laboratory

Consolidation Test

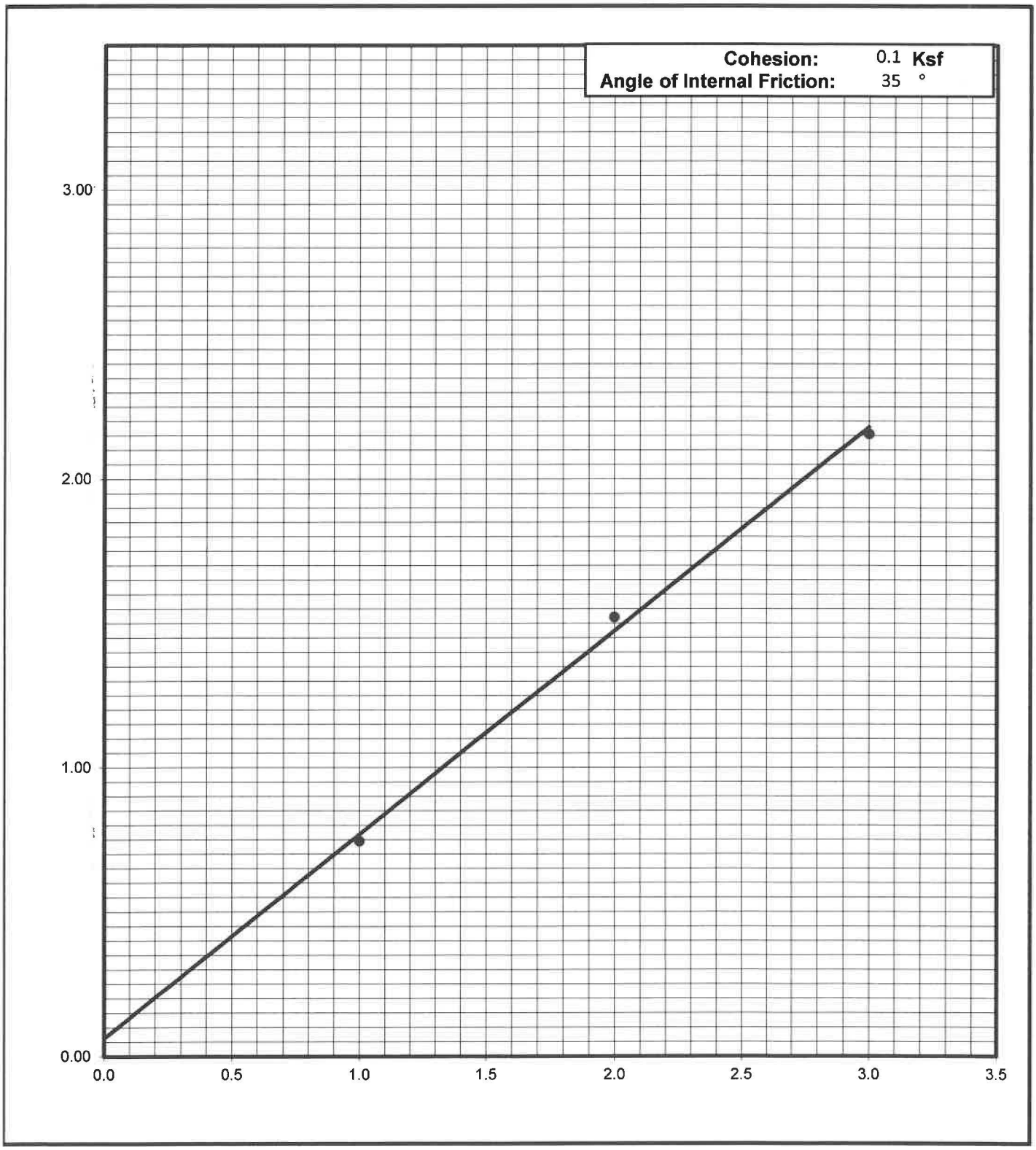
Project No	Boring No. & Depth	Date	Soil Classification
012-21317	B1 @ 5-6'	3/31/2022	SM



Krazan Testing Laboratory

Shear Strength Diagram (Direct Shear)
ASTM D - 3080 / AASHTO T - 236

Project Number	Boring No. & Depth	Soil Type	Date
012-21317	B4 @ 2-3'	SM w/ clay	3/31/2022



Krazan Testing Laboratory

Grain Size Analysis



(Unified Soils Classification)

Project Name	Tract 6400
Project Number	012-21317
Soil Classification	SM w/ clay
Sample Number	B1 @ 2-3'

Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829

Project Number	: 012-21317
Project Name	: Tract 6400
Date	: 3/31/2022
Sample location/ Depth	: B2 @ 1-3'
Sample Number	: X2
Soil Classification	: SC

Trial #	**1**	**2**	**3**
Weight of Soil & Mold, gms	774.5		
Weight of Mold, gms	367.4		
Weight of Soil, gms	407.1		
Wet Density, Lbs/cu.ft.	122.8		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	183.5		
Moisture Content, %	9.0		
Dry Density, Lbs/cu.ft.	112.6		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	49.0		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.0361

Expansion Index $_{measured}$ = 36.1

Expansion Index = **36**

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829

Project Number	: 012-21317
Project Name	: Tract 6400
Date	: 3/31/2022
Sample location/ Depth	: B4 @ 2-3'
Sample Number	: X1
Soil Classification	: SM w/ clay

Trial #	**1**	**2**	**3**
Weight of Soil & Mold, gms	791.4		
Weight of Mold, gms	367.1		
Weight of Soil, gms	424.3		
Wet Density, Lbs/cu.ft.	128.0		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	186.0		
Moisture Content, %	7.5		
Dry Density, Lbs/cu.ft.	119.0		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	48.9		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.0152

Expansion Index $_{measured}$ = 15.2

Expansion Index = **15**

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829

Project Number	: 012-21317
Project Name	: Tract 6400
Date	: 3/31/2022
Sample location/ Depth	: B5 @ 1-3'
Sample Number	: X3
Soil Classification	: SM w/ clay

Trial #	**1**	**2**	**3**
Weight of Soil & Mold, gms	795.0		
Weight of Mold, gms	367.2		
Weight of Soil, gms	427.8		
Wet Density, Lbs/cu.ft.	129.0		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	186.4		
Moisture Content, %	7.3		
Dry Density, Lbs/cu.ft.	120.2		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	49.1		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.018

Expansion Index $_{measured}$ = 18

Expansion Index = 18

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829

Project Number	: 012-21317
Project Name	: Tract 6400
Date	: 3/31/2022
Sample location/ Depth	: B6 @ 1-3'
Sample Number	: X4
Soil Classification	: SM w/ clay

Trial #	**1**	**2**	**3**
Weight of Soil & Mold, gms	803.4		
Weight of Mold, gms	368.0		
Weight of Soil, gms	435.4		
Wet Density, Lbs/cu.ft.	131.3		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	187.3		
Moisture Content, %	6.8		
Dry Density, Lbs/cu.ft.	123.0		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	49.5		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.0112

Expansion Index $_{measured}$ = 11.2

Expansion Index = 11

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Soils Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified to by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the soil negligence of the Owner or the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less that 90 percent relative compaction based on ASTM Test Method D1557-78, UBC or CAL-216, as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be as determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the Contractor for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and the preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project, earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Soils Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree root removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill or tree root excavation should not be permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Surfaces to receive Engineered Fill, building or slab loads shall be prepared as outlined above, scarified to a depth of 6 inches, moisture-conditioned as necessary, and compacted to 90 percent relative compaction.

Loose soil areas, areas of uncertified fill, and/or areas of disturbed soils shall be moisture-conditioned as necessary and recompacted to 90 percent relative compaction. All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas, which are to receive fill materials, shall be approved by the Soils Engineer prior to the placement of any of the fill material.

EXCAVATION: All excavations shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer.

Both cut and fill shall be surface compacted to the satisfaction of the Soils Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill are as specified.

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term "Standard Specifications": hereinafter referred to is the 2018 Standard Specifications of the State of California, Department of Transportation, and the "Materials Manual" is the Materials Manual of Testing and Control Procedures, State of California, Department of Public Works, Division of Highways. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as defined in the applicable tests outlined in the Materials Manual.

2. SCOPE OF WORK - This portion of the work shall include all labor, materials, tools, and equipment necessary for, and reasonably incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically notes as "Work Not Included."

3. PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 90 percent. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

4. UNTREATED AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class 2 material, 1½ inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent. The aggregate base material shall be spread and compacted in accordance with Section 26 of the Standard Specifications. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

5. AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class 2 material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent, and it shall be spread and compacted in accordance with Section 25 of the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

6. ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10. The mineral aggregate shall be Type B, ½ inch maximum size, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39.

The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in Section 39-6. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

7. FOG SEAL COAT - The fog seal (mixing type asphaltic emulsion) shall conform to and be applied in accordance with the requirements of Section 37.

Appendix E

November 1, 2021 Project No. 014-21164

Mr. Brandon De Young
De Young Properties
677 West Palmdon Drive #208
Fresno, California 93704
cbd@deyoungproperties.com

RE: Phase I Environmental Site Assessment
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727

Dear Mr. De Young:

Krazan & Associates, Inc., (Krazan) completed a Phase I Environmental Site Assessment at the referenced site summarized in a report dated November 1, 2021. We appreciate the opportunity to serve your environmental due diligence needs. During the course of this assessment, Krazan identified no evidence of controlled recognized environmental conditions (CRECs) or historical RECs (HRECs) in conjunction with the subject site as defined by ASTM E 1527-13. However, the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), ASTM non-scope issues, and site development issues was identified in conjunction with the subject site:

RECs

- Data available via the Environmental Data Resources (EDR) database report indicates that two fuel underground storage tanks (USTs) are associated with the subject site address of 6351 East Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record dated June 1, 1988, one 1,800-gallon diesel fuel UST and one 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Mr. Anthony Rocha, the son of the owner of the subject site, confirmed that two fuel USTs were previously located approximately 40 feet to the east of the southern-most pole barn in the central-western portion of the subject site. Mr. Rocha, familiar with the subject site for 30+ years, indicated that the fuel dispensers associated with these two USTs were located directly above the USTs. Mr. Rocha indicated that the fuel USTs were removed when secondary containment was required, which he stated to be the late-1980s. Mr. Rocha stated that the property owner removed the USTs and properly disposed the USTs, and he indicated that no obvious sign of contamination was noted. Mr. Rocha stated that there is no documentation related to the removal of the USTs and he indicated that no soil samples were collected beneath the USTs for analysis.

Consistent with Mr. Rocha's statements, no records pertaining to the installation, operation, or removal of a UST located at the 6351 or 6361 E. Clinton Avenue addresses are on file with the Fresno County Environmental Health Division (FCEHD), the agency responsible for UST oversight in Fresno County. Furthermore, no record of subsurface soil/groundwater sampling or of site closure activities associated with the diesel fuel and gasoline USTs is on file with the FCEHD. Consequently, the condition of the USTs at removal is not formally documented and the condition of the subsurface of this property proximate to the former USTs at the time of UST removal is unknown. Given the time frame in which the diesel fuel and gasoline USTs were reportedly installed (1974) and the above-referenced information contained in the State Water Resources Control Board database, it appears likely that a steel tank and steel product distribution lines without corrosion protection were located at this property, and the actual condition/structural integrity of these tanks and product distribution lines during the time of operation are unknown. Consequently, given the above-referenced considerations, the potential exists for an unauthorized release(s) of diesel fuel and/or gasoline to have occurred as the result of the historical operation of these two fuel USTs and fuel dispensers on site for an extended period of time circa 1974, and the condition of the subsurface of the subject site proximate to these former fuel USTs/dispensers is unknown.

Krazan recommends that a Phase II Limited Subsurface Assessment be conducted in the central-western portion of the subject site at the reported/inferred location of the former diesel fuel and gasoline USTs and fuel dispensers to assess the presence or absence of subsurface soil impacts from petroleum hydrocarbon constituents, including a soil vapor survey.

- During Krazan's October 21, 2021 site reconnaissance, significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. At each of these locations, apparent hazardous materials surface impacts and/or potential subsurface hazardous materials impacts were noted, including: 1) an oil and waste oil storage area located on a concrete pad west of the sheet metal shop/storage building and on unpaved ground adjacent to this concrete pad; 2) beneath herbicide/pesticide and petroleum solvent-based oil surfactant adjuvant containers stored on shelving above asphalt pavement of unknown integrity within a dilapidated storage building located adjacent to the northwest of the northern-most pole-barn; and, 3) beneath apparently non-operational equipment on asphalt pavement of unknown integrity located in the western portion of the southern-most pole-barn. The surficial soil staining observed at the hazardous materials storage area west of the sheet metal shop/storage building and beneath the equipment located at the southern-most pole-barn had an appearance consistent with weathered petroleum hydrocarbons. The staining observed beneath the pesticide/herbicide storage shelving had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent-based oil surfactant adjuvant which was also observed on the shelving. In general, the surface staining was limited to an area of approximately 10 to 50 square feet at each of the three above-referenced locations. Although the asphaltic material at the two locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced area of stained/discolored soil is unknown.

  For due diligence relative to the potential impact associated with the petroleum hydrocarbon and/or pesticide/herbicide releases, Krazan recommends that: 1) a Phase II Limited Soil Assessment be conducted to assess the extent of subsurface impacts by the constituents of concern

(COCs) at the hazardous materials storage area, or confirm the absence of impacts following removal, and 2) the areas where significant staining was observed on asphaltic material be cleared of debris and/or scraped to assess cracking/structural integrity. Krazan further recommends that the impacted soil adjacent to the hazardous materials storage area be characterized by sampling and analysis, removed, placed in drums, and properly disposed off-site.

- A steel-plate covered subsurface mechanics pit was observed in the central southern portion of the on-site shop/storage building which was covered with stored materials. Mr. Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. Although the mechanics pit was inaccessible, he indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Due to access limitations, Krazan's assessor was not able to ascertain the overall structural integrity of the mechanic's pit or if cracks could be seen on the surface. Consequently, the condition of the mechanic's pit floor, overall structural integrity or evidence of a release of hazardous materials could not be ascertained. Therefore, the condition of the subsurface surrounding the mechanic's pit in regards to potential releases of historical automobile repair and servicing constituents of concern is unknown.

  Krazan recommends that the condition of the mechanic's pit be assessed by an environmental professional by conducting a Phase II Limited Subsurface Assessment (LSA) with the collection and analysis of samples in the area surrounding the mechanic's pit related to the historical use of this area or automobile or farm implement repair and servicing.

PAOCs

- Krazan's review of an aerial photograph of the subject site taken in 1937 indicates that the central portion of the subject site was occupied by a rural residence, including a dwelling and at least one small outbuilding in a location consistent with the existing residential dwelling, and the central-southern portion of the subject site was occupied by three structures which may have been a second residential area or were outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to have been utilized for agricultural purposes in 1937. The three structures located in the central-southern portion of the subject site were present through 1962; however, all of these structures had been removed from the subject site prior to 1967. Historical uses of the subject site prior to 1937 were not reasonably ascertainable utilizing the standard historical references consulted during this assessment, and it is therefore unknown how long the rural residential/barn/outbuilding structures were located on the subject site prior to 1937.

  Mr. Rocha, the son of the owner of the subject site, stated that USTs were associated with the existing residential area located in the northwestern portion of the subject site, which appears to date back to 1937, and these former USTs were discussed previously. Mr. Rocha indicated that he was not aware of any other USTs being located on the subject site and the structures previously located in the central-southern portion of the subject site predate Mr. Rocha's knowledge of the subject site. Consequently, the status of the structures historically located in the central-southern portion of the subject site relative to the potential presence of USTs is unknown. As indicated previously, no records of USTs for the subject site are on file with the local regulatory agencies; however, USTs on rural or agricultural properties historically have been exempt from requirements for registration with regulatory agencies. Furthermore, Krazan's experience with such properties has shown that it is not uncommon for property owners/operators to install USTs for their convenience, especially in the vicinity of structures, which are undocumented and whose presence

would remain unknown in spite of the standard data research conducted in the course of this Phase I ESA. It is therefore possible that subsurface features such as unregistered fuel USTs may exist within the above-referenced central-southern portion of the subject site which remain unknown based on the absence of any regulatory, municipality, and/or interview data, or other evidence indicating their presence or location. Since the central-southern portion of the subject site has been cultivated with various crops since at least 1967, the possibility exists that subsurface features such as USTs would have been discovered at the time of cultivation; however, there was no available data to support this presumption. Consequently, despite an absence of data suggesting their presence, the presence or absence of USTs associated with on-site structures in a historical agricultural setting on the subject site prior to the current owner's familiarity with the subject site is unknown.

For a higher level of due diligence, Krazan recommends that a Phase II limited geophysical survey be conducted in the inferred area of the former on-site structures previously located in the central-southern portion of the subject site to assess the presence or absence of subsurface metallic anomalies characteristic of underground storage tanks or other subsurface features of concern.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted. Please refer to Appendix B for a copy of the USFWS map showing the referenced designated wetland.

- A structure in a location generally consistent with the existing residential dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). An asbestos and/or LBP survey and sampling of the on-site structures were not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs and LBP may be present at the subject site. During Krazan's October 21, 2021 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Furthermore, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect ACMs or LBP at this property via renovation or demolition, a comprehensive asbestos and LBP survey designed to determine if the suspect ACM and LBP are regulated materials is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Site Development Issues

- A domestic water well and an agricultural water well were observed during Krazan's October 21, 2021 site reconnaissance. According to Mr. Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the water wells and septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

Our firm specializes in full-service Site Development Engineering with considerable project management experience. When you are interested in proceeding with the recommended work, Krazan can evaluate your unique circumstances and prepare a Phase II Proposal/Cost Estimate for the additional assessment including the proposed scope of work, budget, and anticipated project schedule. If you have any questions regarding the information presented in this report, please call me at (559) 348-2200.

Respectfully Submitted,
KRAZAN & ASSOCIATES, INC.



Arthur C. Farkas
Environmental Professional

ACF/mlt

PHASE I ENVIRONMENTAL SITE ASSESSMENT ROCHA PROPERTY 6351 AND 6361 EAST CLINTON AVENUE FRESNO, CALIFORNIA 93727

Pursuant to ASTM E 1527-13

Project No. 014-21164
November 1, 2021

Prepared for:
Mr. Brandon De Young
De Young Properties
677 West Palmdon Drive #208
Fresno, California 93704
(559) 435-0900

Prepared by:
Krazan & Associates, Inc.
215 West Dakota Avenue
Clovis, California 93612
(559) 348-2200

Krazan & ASSOCIATES, INC.
SITE DEVELOPMENT ENGINEERS

TABLE OF CONTENTS
Project No. 014-21164

1.0 EXECUTIVE SUMMARY 1

2.0 PURPOSE AND SCOPE OF ASSESSMENT 3

2.1 Purpose 3
2.2 Scope of Work 3

3.0 SUBJECT SITE SETTING 4

3.1 Geology and Hydrogeology 5

4.0 SITE RECONNAISSANCE 5

4.1 Observations 5
4.2 Utilities 8
4.3 Adjacent Streets and Property Usage 9
4.4 ASTM Non-Scope Considerations 10

5.0 USER-PROVIDED INFORMATION 12

5.1 Environmental Liens/Activity and Use Limitations Report 13
5.2 Phase I Environmental Site Assessment User Questionnaire 13

6.0 SITE USAGE SURVEY 14

6.1 Site History 14
6.2 Interviews 18
6.3 Agricultural Chemicals 19
6.4 Regulatory Agency Interface 20
6.5 Regulatory Agency Lists Review 21

7.0 DISCUSSION OF FINDINGS 27

7.1 Evaluation of Data Gaps/Data Failure 28

8.0 CONCLUSIONS 28

9.0 RELIANCE 31

10.0 LIMITATIONS 32

11.0 QUALIFICATIONS 33

REFERENCES 35

GLOSSARY OF TERMS 36

FIGURES

Figure No. 1 Vicinity Map
Figure No. 2 & 3 Site Map
Figure No. 4 Topographic Map

TABLE OF CONTENTS (continued)
Project No. 014-21164

APPENDICES

Appendix A	Photographs
Appendix B	U.S. Fish & Wildlife Service - National Wetlands Inventory Map
Appendix C	Environmental Lien Search Report
Appendix D	Phase I ESA User Questionnaire
Appendix E	Previous Environmental Assessment
Appendix F	Environmental Data Resources, Inc. (EDR) Historical Aerial Photographs
Appendix G	EDR Sanborn Fire Insurance Map *Unmapped Property* Report
Appendix H	California Regional Water Quality Control Board/State Water Resources Control Board Records
Appendix I	EDR Radius Map Report

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ROCHA PROPERTY
6351 AND 6361 EAST CLINTON AVENUE
FRESNO, CALIFORNIA 93727

1.0 EXECUTIVE SUMMARY

Krazan & Associates, Inc. (Krazan) has conducted a Phase I Environmental Site Assessment (ESA) of the Rocha Property associated with Fresno County Assessor's Parcel Number (APN) 574-050-02 located at 6351 and 6361 East Clinton Avenue in Fresno, California 93727 (subject site). It is incumbent upon the user to read this Phase I ESA report in its entirety. If not otherwise defined within the text of this report, please refer to the Glossary of Terms Section following the References Section for definitions of terms and acronyms utilized within this Phase I ESA report. Krazan conducted the Phase I ESA of the subject site in conformance with the American Society for Testing and Materials (ASTM) E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* This Phase I ESA constitutes all appropriate inquiry (AAI) designed to identify recognized environmental conditions (RECs) in connection with the previous ownership and uses of the subject site as defined by ASTM E 1527-13.

ASTM E 1527-13 Section 1.1.1 *Recognized Environmental Conditions* – In defining a standard of good commercial and customary practice for conducting an environmental site assessment of a parcel of property, the goal of the processes established by this practice is to identify recognized environmental conditions. The term recognized environmental conditions means the 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. *De minimis* conditions are not recognized environmental conditions.

During the course of this assessment, Krazan identified no evidence of controlled recognized environmental conditions (CRECs) or historical RECs (HRECs) in conjunction with the subject site as defined by ASTM E 1527-13. However, the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), ASTM non-scope issues, and site development issues was identified in conjunction with the subject site:

RECs

- The reported presence of two fuel underground storage tanks (USTs) and associated fuel dispensers in the northwestern portion of the subject site for which no formal documentation of UST removal and/or subsurface soil sample collection and analysis is available to document the condition of the USTs and the condition of the surrounding subsurface environment at removal.

- The presence of significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. Although the asphaltic material at the three locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced areas of stained/discolored soil is unknown.

- A steel-plate covered subsurface mechanics pit was observed in the central southern portion of the on-site shop/storage building which was covered with stored materials. Due to access limitations, Krazan's assessor was not able to ascertain the overall structural integrity of the mechanic's pit or if cracks could be seen on the surface. Consequently, the condition of the mechanic's pit floor, overall structural integrity or evidence of a release of hazardous materials could not be ascertained. Therefore, the condition of the subsurface surrounding the mechanic's pit in regards to potential releases of historical automobile repair and servicing constituents of concern is unknown.

PAOCs

- The potential presence of unregistered USTs in the vicinity of structures previously located in the central-southern portion of the subject site from at least 1937 to at least 1962 in a rural agricultural setting.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted. Please refer to Appendix B for a copy of the USFWS map showing the referenced designated wetland.

- The on-site residential structure located in the northwestern portion of the subject site appears to have been originally constructed in or before 1937. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). However, based on the apparent date of construction, asbestos-containing materials and/or lead based paint may be present at the subject site.

Site Development Issues

- The reported/observed presence of water wells and septic systems on site which should be removed/abandoned/destroyed if identified and not utilized in the planned redevelopment of the subject site.

Please refer to Section 8.0 Conclusions/Opinions for a detailed discussion of the findings included in this summary.

2.0 PURPOSE AND SCOPE OF ASSESSMENT

2.1 Purpose

According to ASTM E 1527-13, the purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an *environmental site assessment* of a parcel of *commercial real estate* with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and *petroleum products.* As such, this practice is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner,* or *bona fide prospective purchaser* limitation on CERCLA liability (hereinafter, the *landowner liability protections,* or *LLPs*): that is, the practice that constitutes *all appropriate inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

2.2 Scope of Work

The Phase I ESA includes the following scope of work: a) a site reconnaissance of existing on-site conditions and observations of adjacent property uses, b) a review of user-provided documents c) a review of historical aerial photographs, a review of pertinent building permit records, cross-reference directories, historical Sanborn Fire Insurance Maps (SFIMs), and interview(s) with person(s) knowledgeable of the previous and current ownership and uses of the subject site, d) a review of local regulatory agency records, and e) a review of local, state, and federal regulatory agency lists compiled by Environmental Data Resources, Inc. (EDR). The scope of work for this Phase I ESA conforms to ASTM E 1527-13. Krazan was provided written authorization to conduct the Phase I ESA by Mr. Brandon De Young with De Young Properties on September 30, 2021, in Krazan's September 28, 2021 Proposal/Cost Estimate No. P21-212.

3.0 SUBJECT SITE SETTING

The subject site is located southwest of E. Clinton Avenue and N. Armstrong Avenue within the City of Fresno, Fresno County, California. The subject site consists of one rectangular-shaped parcel measuring approximately 12.65 acres with the associated Fresno County Assessor's Parcel Number of 574-050-02. The northwestern portion of the subject site is currently developed with a single-family dwelling, a mobile home, a detached garage, a 3,400-square-foot shop/storage building, two pole-barns, and small wooden storage shed. The subject site is associated with the addresses of 6351 and 6361 E. Clinton Avenue. A portion of the existing subject site development (the single-family dwelling) was apparently originally constructed in or before 1937. The remainder of the northwestern portion of the subject site is developed with paved driveways and walkways, landscaped grounds, and the balance of the subject site is agricultural land.

General property information and property use are summarized in the following Table I. Refer to Figures No. 1 – 3 following the Reference Section.

TABLE I
Subject Site Information Summary

Current Owner:	Tony and Emily Rocha, Trustees
Assessor's Parcel Number:	574-050-02
Address:	6351 and 6361 E. Clinton Avenue Fresno, California 93727
Historical Address:	None Identified
General Location:	Southwest of E. Clinton Avenue and N. Armstrong Avenue
Acreage:	12.65 acres (approximately)
Existing Use:	Residential and Agricultural
Number of Structures:	Seven including a small wooden storage shed
Original Construction Date:	Prior to 1937 (single-family dwelling)
Proposed Use:	Single-Family Residential
Topographic Map:	U.S. Geological Survey, 7.5-minute Clovis, California topographic quadrangle map, dated 1964, photo-revised 1981
Topographic Map Location:	Southwestern quarter of Section 27, Township 13 South, Range 21 East, Mount Diablo Baseline and Meridian
Latitude/Longitude:	36.77115° / –119.67486°
Topography:	Relatively flat, approximately 345 feet above mean sea level
Approximate Depth to Groundwater:	265 feet below ground surface (bgs), State of California Department of Water Resources (DWR)**
Regional Groundwater Flow Direction:	East/Northeast, DWR**

Note: ** State of California, Department of Water Resources, *Sustainable Groundwater Management Act (SGMA) Data Viewer, Spring 2018.*

3.1 Geology and Hydrogeology

The subject site is located within the San Joaquin Valley, a broad structural trough bound by the Sierra Nevada and Coast Ranges of California. The San Joaquin Valley, which comprises the southern portion of the Great Valley of California, has been filled with several thousand feet of sedimentary deposits. Sediments in the eastern valley, derived from the erosion of the Sierra Nevada, have been deposited by major to minor west-flowing drainages and their tributaries. Near-surface sediments are dominated by sands and silty sands with lesser silts, minor clays, and gravel. The sedimentary deposits in the region form large coalescing alluvial fans with gentle slopes. Groundwater in the area of the subject site is reported to be first encountered at a depth of approximately 265 feet bgs. The groundwater flow direction in the subject site vicinity is generally reported to be toward the east/northeast.

4.0 SITE RECONNAISSANCE

A site reconnaissance, which included a visual observation of the subject site and surrounding properties, was conducted by Ms. Laurie Blakeman, Krazan's Senior Environmental Scientist, on October 21, 2021. Mr. Anthony Rocha, son of the owner of the subject site, accompanied Krazan's Senior Environmental Scientist during the site reconnaissance. The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions, including hazardous substances and petroleum products, in connection with the property (including soils, surface waters, and groundwater).

4.1 Observations

The following Table II summarizes conditions encountered during our site reconnaissance. A discussion of visual observations is presented in the table below. Refer to the Site Map (Figure No. 2) and color photographs following the text for the locations of items discussed in this section of the report.

TABLE II
Summary of Site Reconnaissance

Feature	Observed	Not Observed
Structures (existing)	X	
Evidence of Past Uses (foundations, debris)		X
Hazardous Substances and/or Petroleum Products (including containers)	X	
Aboveground Storage Tanks (ASTs)	X	
Underground Storage Tanks (USTs) or Evidence of USTs		X
Evidence of Underground Pipelines		X
Strong, Pungent, or Noxious Odors		X
Pools of Liquid Likely to be Hazardous Materials or Petroleum Products		X

TABLE II (continued)
Summary of Site Reconnaissance

Feature	Observed	Not Observed
Drums	X	
Unidentified Substance Containers	X	
Potential Polychlorinated Biphenyl (PCB)-Containing Equipment		X
Subsurface Hydraulic Equipment		X
Heating/Ventilation/Air conditioning (HVAC)		X
Stains or Corrosion on Floors, Walls, or Ceilings	X	
Floor Drains, Sumps, or Oil/Water Clarifiers		X
Storm Drains		X
Pits, Ponds, or Lagoons		X
Stained Soil and/or Pavement	X	
Soil Piles		X
Stressed Vegetation		X
Waste or Wastewater (including stormwater) Discharges to Surface/ Surface Waters		X
Wells (irrigation, domestic, dry, injection, abandoned, monitoring wells)	X	
Septic Systems	X	

The subject site comprises approximately 12.65 acres of residential and agricultural property with the associated Fresno County APN of 574-050-02. Refer to Figure No. 2, Site Map, for locations of the following referenced on-site features:

- The northwestern portion of the subject site was observed to be occupied by a residential area and the remainder of the subject site was observed to be agricultural land (field crops). The residential portion of the subject site, covering an area of approximately three acres, was observed to include a single-family dwelling, a detached garage, a mobile home, a storage shed, a sheet metal shop/storage building with a structural footprint of approximately 3,400 square feet, two pole-barns (one of which includes an adjoining wooden storage structure), a corral with animal shade structures, and landscaped grounds (See Photographs No. 1, 3, 4, 5, 7, 12, 13, 14,16, 17, and 19). The on-site residential area, single-family home and mobile home, were occupied by Rocha family members at the time of Krazan's site reconnaissance.

- No hazardous materials or hazardous wastes were observed in association with the single-family dwelling, detached garage, small storage shed and mobile home other than small quantities of common cleaning and maintenance materials, including gasoline for landscape maintenance equipment, and propane aboveground storage tanks. Several areas in which these maintenance materials were stored (the detached garage and the small storage shed) were cluttered; however, housekeeping conditions were generally observed to be good. No obvious evidence of an environmental concern or of an unauthorized release of maintenance materials was noted within these portions of the subject site.

- Several cylinders of compressed welding gases and relatively small quantities of common maintenance materials, including paint, adhesives, caulking/patching materials, and lubricants, were observed in the western and northern portions of the 3,400-square-foot shop building (See Photographs No. 8, 9,18). A tool bench, tools, and storage containers were also observed in the on-site shop/storage building See Photograph No. 31). The shop/storage building was cluttered with densely stored materials, including boxes, packaging materials, vehicle/equipment parts, tires,

containers of unknown content, a vehicle, household goods, and maintenance materials. *De minimis* surface staining which appeared to be lubricant-related was observed adjacent to lubricant containers in the western portion of the building, although no evidence was observed that this apparently minor release had migrated beyond the building or penetrated the building foundation. No floor/trench drains or sumps were observed within the building, and Mr. Anthony Rocha, familiar with the subject site for 30+ years, stated that none are present. However, a steel-plate covered subsurface mechanics pit was observed in the central southern portion of the shop building which was covered with stored materials. (See Photograph No. 10). Mr. Anthony Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. Although the mechanics pit was inaccessible, he indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Additionally, portions of the asphaltic-type pavement beneath the northern-most pole-barn were densely packed with vehicles, equipment, materials, lumber, sheet metal, antique farm equipment, and apparently discarded materials at the time of the site reconnaissance (See Photographs No. 12 – No. 14). *De minimis* staining was observed on the asphaltic-type pavement in this area of the subject site.

- A canopy-covered oil/hazardous materials storage area was observed on a concrete pad adjacent to the west of the shop/storage building (See Photograph No. 19). An empty plastic AST previously utilized for agricultural chemicals, four partially filled steel drums containing hydraulic oil, motor oil and gear oil (approximately 25 to 55 gallons in capacity), seven 5-gallon containers of hydraulic oil and lubricants, two approximately 20-gallon containers of waste oil, and an air compressor were observed within the oil/hazardous materials storage area (See Photographs No. 19 and 20). Significant staining was observed on the concrete pad at the northern end of the storage area immediately proximate to the waste oil containers and the cradle-mounted lubricant drums (See Photograph No. 20). Discolored and stained surface soil consistent with weathered petroleum hydrocarbons was observed adjacent to the northwestern corner of the concrete pad (See Photograph No. 21).

- Approximately 30 containers of pesticides, herbicides and petroleum solvent-based adjuvants (1.0-2.5- and 5.0-gallon capacity containers) were observed at two locations within a somewhat dilapidated wooden storage structure located adjacent to the west of the northern-most pole-barn, including within a wooden locker and on shelving in the western portion of the structure (See Photograph No. 22) and on shelving in the northeastern portion of the structure (See Photograph No. 23). This structure, at least partially utilized for pesticide/herbicide storage, was cluttered and housekeeping conditions were poor to fair (See Photograph No. 15). Staining was observed beneath the pesticide/herbicide storage shelving in the northern portion of the structure which had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent based oil surfactant adjuvant which was also observed on the shelving (See Photograph No. 24).

- Significant surface staining was observed on asphaltic-type pavement of unknown integrity located beneath the southern-most pole-barn. A relatively large area of surface staining was observed beneath equipment located in the western portion of this pole-barn (See Photograph No. 25). The apparent thickness and opacity of the surface staining present at the time of the site reconnaissance prevented observation of the surface of the underlying asphaltic material thereby precluding assessment of potential cracking and structural integrity. The surficial soil staining had an appearance consistent with weathered petroleum hydrocarbons.

- Two propane ASTs were observed in the northwestern portion of the subject site, including a larger one (approximately 1,000 gallons) associated with the single-family dwelling (See Photograph No. 26) and a smaller one (approximately 500 gallons) associated with the mobile home. No evidence on an environmental concern was noted in association with these two propane ASTs.

- Subsurface valves were observed in the eastern portion of the subject site. The presence of these valves suggests that subsurface irrigation piping may be present in the southwestern quarter and eastern half of the subject site. No hazardous materials were observed in association with the subsurface valves.

- An electrically powered domestic water well and a water pressure/storage tank were observed to the southeast of the single-family home, and an electrically powered agricultural water well was observed in the northeastern corner of the subject site (See Photographs No. 30 and 32). An empty 55-gallon drum and a wooden crate were also observed in this area of the subject site. Mr. Anthony Rocha stated that the agricultural water well has never been powered by diesel fuel. No hazardous materials were observed in association with the on-site water wells. Mr. Rocha stated that the on-site residential structures are connected to at least two, and possibly three, septic systems located on the subject site.

- The remainder of the subject site not occupied by the previously referenced residential area was observed to be agricultural land field crops (See Photographs No. 27, 28, 29, and 30). No evidence of hazardous materials storage or hazardous waste was observed within these portions of the subject site.

- During the visual observations of the subject site, no obvious evidence (vent pipes, fill pipes, dispensers, etc.) of existing USTs was noted within the areas observed. However, Mr. Anthony Rocha indicated that fuel USTs and associated dispensers were located approximately 40 feet to the east of the southern-most pole barn; however, he indicated that the USTs/dispensers have been removed from the subject site. Please refer to Section 8.0 of this report for a discussion of the former on-site fuel USTs.

- No pole- or pad-mounted electrical transformer were observed on the subject site.

- High-voltage electrical transmission lines were observed trending east-west in the southern portion of the subject site and north-south in the eastern portion of the subject site (See photograph No. 29).

4.2 Utilities

Based on Krazan's research, the following Table III summarizes companies/municipalities currently provide utility services to the subject site:

TABLE III
Municipal Service / Utility Providers

Service / Utility	Provider
Electricity	Pacific Gas & Electric (PG&E)
Natural Gas	None – Propane ASTs (2) are located on site
Potable Water	City of Fresno and on-site domestic water well
Sanitary Sewer	On-site septic system connected to each of the two on-site residential structures

Water / Wells

The municipal potable water purveyor for the subject site is the City of Fresno. The City of Fresno's water quality monitoring is an on-going program with water samples obtained on a regular basis. It is the responsibility of the City of Fresno to provide customers with potable water in compliance with the California State Maximum Contaminant Levels (MCLs) for primary drinking water constituents in water supplied to the public. According to Mr. Anthony Rocha, potable water is supplied to the on-site mobile home by the City of Fresno. However, Mr. Rocha indicated that potable water is supplied to the on-site dwelling by an on-site domestic well. Additionally, during Krazan's October 21, 2021 site reconnaissance, an agricultural water well was observed in the northeastern portion of the subject site. No information regarding analytical testing or construction specifications of the on-site wells was found during the course of this assessment. If the on-site water wells are not to be used in any planned redevelopment of the subject site, they should be properly destroyed in accordance with State and local guidelines.

Sewer / Septic Systems

According to Mr. Anthony Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

4.3 Adjacent Streets and Property Usage

The following Table IV summarizes the current adjacent roads and adjacent property uses observed during the site reconnaissance:

TABLE IV
Adjacent Streets and Property Use

Direction	Adjacent Street	Adjacent Property Use
North	E. Clinton Avenue	Rural Residential / Vacant Land
South	None	Agricultural Land (Vineyard)
East	N. Armstrong Avenue	Residence / Vacant Lot / Plant Nursery
West	None	Rural Residence

Based on the observed uses of the properties located immediately adjacent to the subject site, it is unlikely that significant quantities of hazardous materials are stored at the adjacent properties.

4.4 ASTM Non-Scope Considerations

According to ASTM E 1527-13, there may be environmental issues or conditions at the subject site that are outside the scope of the Phase I ESA practice (non-scope considerations). Some substances may be present at the subject site in quantities and under conditions that may lead to contamination of the subject site or of nearby properties but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §9601[14]). ASTM non-scope considerations are discussed below.

Asbestos-Containing Materials

Asbestos is a group of naturally occurring mineral fibers that have been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials, vehicle brakes, and heat-resistant fabrics, packaging, gaskets, and coatings. When asbestos-containing materials (ACMs) are damaged or disturbed by repair, remodeling, or demolition activities, microscopic asbestos fibers may become airborne and can be inhaled into the lungs, where they can cause significant health problems.

A structure in a location generally consistent with the existing dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs). An asbestos survey and sampling of the on-site structures was not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs may be present at the subject site. During Krazan's October 21, 2021 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Prior to the disturbance of any of the suspect ACMs at this property via demolition, a comprehensive asbestos survey designed to determine if the suspect ACM is a regulated material is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Lead-Based Paint

Although lead-based paint (LBP) was banned in 1978, many building constructed prior to 1978 have paint that contains lead. Lead from paint, chips, and dust can pose serious health hazards if not addressed properly.

A structure in a location generally consistent with the existing dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is

unknown if the on-site structures contain lead-based paint. A LBP survey and sampling of the on-site structures was not included within the scope of this assessment. However, based on the apparent dates of construction, LBP may be present at the subject site. During Krazan's October 21, 2021 site reconnaissance, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect LBP at this property via demolition, a comprehensive LBP survey designed to determine if the suspect LBP is a regulated material is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Radon

Radon is a radioactive gas that is found in certain geologic environments and is formed by the natural breakdown of radium, which is found in the earth's crust. A radon survey was not included within the scope of this investigation; however, the State of California Department of Public Health (CDPH) maintains a statewide database of radon results in designated geographic areas. Radon detection devices are placed in homes throughout the study region to determine geographic regions with elevated radon concentrations. The U.S. EPA has set the safety standard for radon gas in homes to be 4.0 pico Curies per liter (pCi/L).

The US EPA has prepared a map to assist National, State and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action Limit of 4.0 pCi/L. It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures. Review of the EPA Map of Radon Zones places the Property in Zone 2, where average predicted radon levels are between 2.0 and 4.0 pCi/L. Therefore, the available data suggests that the potential for radon to adversely impact the subject site appears to be low.

Environmental Non-Compliance Issues

No obvious material non-compliance issues were identified in connection with the subject site in the process of preparing this report.

Activity and Use Limitations

No activity and use limitations were identified in connection with the subject site in the process of preparing this report.

Wetlands

As defined by the U.S. EPA and the Department of Army, Corps of Engineers, wetlands are "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." Jurisdictional wetlands are regulated under Section 404 of the Clean Water Act (1972, 1977, and 1987, and also the 1985 and 1990 Farm Bills), and are important for protection of aquatic waterfowl and species, water purification, and flood control. According to current Corps of Engineers information, three basic criteria are currently used to define wetlands:

- Wetland hydrology - areas exhibiting surface or near-surface saturation or inundation at some point in time (greater than 12.5 percent of growing season defined on basis of frost-free days) during an average rainfall year.

- Hydrophilic vegetation - frequency of occurrence of wetland indicator plants (plant life growing in water, soil, or substrate that is periodically deficient in oxygen as a result of excessive water content).

- Hydric soil - landscape patterns identified by saturation, flooding, or ponding long enough during the growing season (generally seven days) which develop characteristic color changes in the upper part of the soil as a result of anaerobic conditions.

Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted. Please refer to Appendix B for a copy of the USFWS Inventory Map showing the referenced designated wetland.

5.0 USER-PROVIDED INFORMATION

A review of user-provided information was conducted in order to help identify pertinent information regarding potential environmental impacts associated with the subject site.

5.1 Environmental Liens/Activity and Use Limitations Report

On October 20, 2021 an Environmental Lien/Activity and Use Limitations (EL/AUL) Report was prepared by AFX Corp. Inc. (AFX), for the subject site parcel. The AFX EL/AUL Report provides results from a search of available land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls. The subject site EL/AUL Report was reviewed to identify potential environmental liens, institutional controls (ICs), land use controls (LUCs), activity and use limitations (AULs), or declaration of environmental use restrictions (DEULs) which may have been filed against the subject site or exist in connection with the subject site as indicated by the subject site EL/AUL Report. Krazan's review of the EL/AUL Report indicated no liens, judgments, ICs, LUCs, AULs, or DEULs were found for the subject site according to the scope of work and limitations. Please refer to Appendix C for a copy of the AFX EL/AUL Report.

5.2 Phase I Environmental Site Assessment User Questionnaire

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), 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. The user is asked to provide information or knowledge of the following:

1. Environmental cleanup liens that are filed or recorded against the site.
2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry.
3. Specialized knowledge or experience of the person seeking to qualify for the LLPs.
4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated.
5. Commonly known or *reasonably ascertainable* information about the *property*.
6. The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation.
7. The reason for preparation of this Phase I ESA.

A completed Phase I ESA User Questionnaire was received from Mr. Brandon De Young with De Young Properties, the Phase I ESA user. Please refer to Appendix D for a copy of the completed Phase I ESA User Questionnaire.

According to the questionnaire responses, Mr. De Young, to the best of his knowledge as the user of this Phase I ESA, was not aware of any environmental cleanup liens and activity or land use limitations which have been filed or recorded against the subject site; and Mr. DeYoung has no specialized knowledge or experience of the prior nature of the business or chemical utilization on the subject site. Mr. De Young indicated that he has no knowledge of the historical uses of the subject site. Mr. De Young indicated that his knowledge of the of the historical uses of the subject site, past or current presence of specific chemicals or hazardous materials, unauthorized spills or chemical releases or of any environmental cleanups in connection with the subject site, is what was expressed in Krazan's previous Phase I ESA for the subject site. Krazan's previous Phase I ESA on the subject site is discussed below in Section 6.1 of this report. Mr. De Young stated that the purchase price of the subject site reasonably reflects fair market value. Additionally, Mr. De Young indicated that the reason for preparation of this Phase I ESA is related to a proposed property purchase for residential development.

6.0 SITE USAGE SURVEY

The property usage survey included assessing property history, and reviewing local, state, and federal regulatory agency records.

6.1 Site History

A review of historical aerial photographs, a USGS topographic quadrangle map, City of Fresno Planning and Development Department records, and reasonably ascertainable cross-reference directories, a search for Sanborn Fire Insurance Maps (SFIMs), and a Phase I ESA interview were utilized to assess the history of the subject site.

Previous Environmental Assessment

Krazan and Associates, Inc. (Krazan) conducted a previous environmental assessment of the subject site entitled *Phase I Environmental Site Assessment, Rocha Property, 6351 East Clinton Avenue, APN 31-041-20, Fresno, California 93727* (Krazan Project No. 014-18149) dated October 2, 2018, reference for which was provided by the client. According to the previous Phase I ESA, RECs were identified regarding unregistered USTs and surface staining in three separate areas. Additionally, a PAOC was identified in regards to potential USTs be located in the vicinity of the on-site dwelling and farm structures, an inaccessibility data gap was identified, along with ASTM Non-Scope Issues and site development issues. Please refer to Appendix E for a copy of the previous Phase I ESA

Aerial Photograph Interpretation

Historical aerial photographs dated 1937, 1946, 1950, 1957, 1962, 1967, 1973, 1979, 1984, 1987, 1998, 2006, 2012, 2018, and 2021 were reviewed to assess the history of the subject site. These photographs were obtained from Environmental Data Resources, Inc. (EDR) and via the internet at Microsoft® Research Maps and Google Earth™. The aerial photograph summary is provided in the following Table V. Please refer to Appendix F for a copy of the Historical Aerial Photographs.

TABLE V
Summary of Aerial Photograph Review

Year/Scale	Site Use	Site and Adjacent Property Observation
1937 1" = 500'	Residential/ Agricultural	The central portion of the subject site appears to be occupied by a rural residence, including a dwelling and at least one small outbuilding. The central-southern portion of the subject site appears to be occupied by three structures which may be a second residential area or are outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to be utilized for agricultural purposes. The northern, eastern and western adjacent properties appear to be occupied by rural residences and utilized for agricultural purposes. The southern adjacent property appears to be utilized for agricultural purposes.
1946 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1937 aerial photograph.
1950 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1946 aerial photograph except for the development of another small outbuilding in the central-southern portion of the subject site.
1957 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1950 aerial photograph except: 1) the dwelling and outbuilding previously noted in the central portion of the subject site are no longer visible, as this portion of the subject site appears to be vacant land, and 2) a structure has been developed in the central-northern portion of the subject site in a location consistent with the existing stick-built dwelling observed during Krazan's site reconnaissance.
1962 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1957 aerial photograph except only one structure is visible in the central-southern portion of the subject site.
1967 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1962 aerial photograph except no structures are visible in the central-southern portion of the subject site. All of the subject site appears to be cultivated except for the area surrounding the apparent dwelling located in the central-northern portion of the subject site.
1973 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1967 aerial photograph.

TABLE V (continued)
Summary of Aerial Photograph Review

Year/Scale	Site Use	Site and Adjacent Property Observation
1979 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1973 aerial photograph except two barn-type structures, two smaller elongated structures and a small shed have been developed in the western portion of the subject site, and 2) two dwellings have been developed on the western adjoining property. Additionally, the western portion of the subject site does not appear to be cultivated.
1984 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1979 aerial photograph except the two elongated structures previously noted in the western portion of the subject site have been removed and a larger barn-type structure is present in that space.
1987 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1984 aerial photograph.
1998 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1987 aerial photograph except for the addition of an apparent mobile home in the central-northern portion of the subject site in a location consistent with the existing double-wide mobile home. The overall configuration of on-site structures is consistent with that observed during Krazan's site reconnaissance.
2006 1" = 500'	Residential/ Vacant Land	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1998 aerial photograph except no obvious evidence of cultivation is visible on the subject site.
2012 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 2006 aerial photograph except: 1) the on-site mobile home appears to be a double-wide mobile home, and 2) portions of the subject site appear to be cultivated.
2018 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 2012 aerial photograph except the cultivated portion of the subject site appears to be fallow. Additionally, a residential subdivision is visible to the northwest of the subject site.
2021 1" = 500'	Residential Dwelling/ Mobile Home/ Shop/Storage Building/ Two Pole Barns/ Detached Garage/ Shed	The subject site appears to be occupied by the existing residential dwelling, mobile home, shop/storage building, two pole barns, detached garage, and shed observed during Krazan's October 21, 2021 site reconnaissance. The adjacent property to the west appears to be occupied by a rural residential dwelling; and the adjacent property to the south appears to be utilized for agricultural purposes. The adjacent property to the north, beyond East Clinton Avenue, appears to be occupied by a rural residential dwelling, associated out structure, and vacant land. The adjacent property to the east, beyond North Armstrong Avenue, appears to occupied by a large nursery and rural residential dwelling.

USGS Topographic Quadrangle Map

Krazan's review of the USGS 7.5-minute Clovis, California topographic quadrangle map dated 1964 indicates that the northwestern portion of the subject site is occupied by a residential-type structure. The remainder of the subject site is depicted as vacant land in 1964. A north-south trending irrigation canal is depicted in the eastern portion of the subject site. Additionally, the 1923, 1946, 1947, 1972, 1981 topographic quadrangle maps also indicate a structure located in the northwestern portion of the subject site. Refer to Figure No. 3, Topographic Map, for reference.

City of Fresno Planning and Development Department Records

The Fresno City of Fresno Planning and Development Department (CFPDD) was contacted to review building permit records for the subject site addresses of 6351 and 6361 E. Clinton Avenue. According to a representative of the CFPDD, four building permits are on file with the CFPDD for the subject site. Krazan's review of permits on file with the CFPDD for the subject site revealed: 1) a permit issued in 1981 for the addition of a garage, game room and bathroom to an existing dwelling, 2) a permit issued in 1985 for the construction of an ag exempt storage building, 3) a permit issued in 1995 for the installation of a mobile home, and 4) a permit issued in 2008 for a single-family residence reroof. No permits for items such as underground storage tanks, complete building demolition, or previous structures/features are on file with the CFPDD for the subject site. According to CFPDD representatives, there are no building permits of record subsequent to October 2018. Copies of the four building permit records were not readily available or ascertainable.

City Directories

Reasonably ascertainable Polk Guide Directories (PGDs) dated 1972 through 2020 were reviewed utilizing approximately five-year intervals in the EDR-City Directory Image Report for the subject site addresses of 6351 and 6361 East Clinton Avenue. A summary of City Directory information is presented in the following Table VI.

TABLE VI
Haines Criss-Cross Directory Summary

Address	Owner/Occupant	Years
Subject Site		
6351 East Clinton Avenue		
	T. Rocha – Residential Listing	1972, 1976
	T. Rocha – Residential Listing / Eastside Hay Ranch	1980 to 2004/2005
	Anthony Rocha – Residential Listing Eastside Hay Ranch-Business Listing	2008/2009
	Anthony Rocha – Residential Listing	2013/2020

TABLE VI (continued)
Haines Criss-Cross Directory Summary

Address	Owner/Occupant	Years
Subject Site		
6361 E. Clinton Avenue		
	Address Not Listed	1972 to 1995
	Deborah Lencioni – Residential Listing Roachman Farms & Tractor-Business Listing SVC Farming Services-Business Listing	2002
	Debby Rocha Anthony Rocha No Listings	2014 2017 2020

Sanborn Fire Insurance Maps

Krazan reviews SFIMs to evaluate prior land use of the subject site and the adjacent properties. SFIMs typically exist for cities with populations of 2,000 or more, the coverage dependent on the location of the subject site within the city limits. Krazan contracted with EDR to provide copies of available SFIMs for the subject site and the adjacent properties as far back as 1867. EDR's search of SFIMs revealed no coverage for the subject site and the adjacent properties. Please refer to Appendix G for a copy of the EDR SFIM *Unmapped Property* Report.

6.2 Interviews

Krazan conducted an interview with one of the owners of the subject site. The interview is designed to provide pertinent information regarding potential environmental impacts associated with the subject site.

Subject Site Owner – An interview was conducted with Mr. Anthony Rocha, the son of the owner of the subject site. Mr. Rocha indicated that he has been familiar with the subject site for the past 50 years and he indicated that the subject site has been utilized for residential and farming purposes throughout that time period. Mr. Rocha indicated that seven structures are located on the subject site. Mr. Rocha indicated that he is not aware of any previous structures being located on the property and he indicated that the subject site was historically utilized for farming. Mr. Rocha indicated that underground storage tanks, aboveground storage tanks, and agricultural chemicals utilized in farming operations have been located on the subject site. Mr. Rocha also indicated that the two unregistered USTs were removed in the late-1980s although no soil samples or evidence of closure on the removal was identified. Furthermore Mr. Rocha also stated that a mechanics pit is located in the on-site shop/storage building which was used less than 10 times. Mr. Rocha also indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Mr.

Rocha indicated that one agricultural water well, one domestic water well, and three septic systems are located on the subject site.

According to Mr. Rocha, to the best of his knowledge, no disposal of hazardous materials; no environmental cleanups, no on-site treatment and/or discharge of waste (other than domestic waste); no environmental liens, AULs, engineering or institutional controls, no on-site dry wells, sumps, or disposal ponds; no buried materials; no monitoring wells; and no imported soil are associated with the subject site. Mr. Rocha indicated that he was aware of indications pointing to the presence or likely presence of contamination of the subject property from oil spills. Mr. Rocha indicated that the reason for preparation of this Phase I ESA is related to a proposed property sale. Additionally, Mr. Rocha indicated that the purchase price of the subject site reasonably reflects fair market value.

Previous Subject Site Owners/Occupants – An interview with a previous owner/occupant of the subject site was not reasonably ascertainable.

6.3 Agricultural Chemicals

Review of historical aerial photographs indicates the subject site was utilized for agricultural purposes from at least 1937 to the present. It is not known if environmentally persistent pesticides and/or herbicides were historically applied to the crops grown on the subject site. Although the potential exists that environmentally persistent pesticides/herbicides were historically applied to the crops grown on the subject site, 1) no material evidence of the use of environmentally persistent pesticides/herbicides was obtained during the course of this assessment, 2) Krazan's sampling analysis of surface soils from properties with similar agricultural histories in the subject site area has typically yielded non-detectable results or very low concentrations for analysis of environmentally persistent pesticides/herbicides, and 3) based upon the soil disturbance anticipated in conjunction with the grading and trenching activities during the planned redevelopment of the subject site, it is likely that any potential agricultural chemicals would be significantly mixed and diluted. Consequently, given the above-referenced factors and Krazan's experience in the subject site vicinity which generally indicates that the potential is low for elevated concentrations of environmentally persistent pesticides/herbicides related to agricultural cultivation to exist in the near-surface soils of common agricultural ground at concentrations which would require regulatory action, despite the absence of specific data, the potential for elevated concentrations of environmentally persistent pesticides/herbicides to currently exist in the near-surface soils of the subject site at concentrations which would require regulatory action appears to be low.

6.4 Regulatory Agency Interface

A review of regulatory agency records was conducted to help determine if hazardous materials have been handled, stored, or generated on the subject site and/or the adjacent properties and businesses.

Regulatory records are reviewed based on the following criteria: 1) properties with known soils and/or groundwater releases considered to represent the potential for impact to the subject site that are located within 1,760 feet of the subject site for constituents of concern impacts or 528 feet of the subject site for petroleum hydrocarbon impacts; 2) properties that are adjacent or in proximity to the subject site included within the EDR regulatory database report or noted during the site reconnaissance to possibly handle, store, or generate hazardous materials. Applicable property records are discussed below.

Fresno County Department of Public Health – Environmental Health Division

The Fresno County Department of Public Health, Environmental Health Division (FCEHD) is the lead regulatory agency or Certified Unified Program Agency (CUPA) for hazardous materials handling facilities located in Fresno County. Krazan's review of the FCEHD CUPA and Solid Waste Programs Resource List (CUPA List) October 2020, indicated that no hazardous materials storage, hazardous waste generator, AST, UST, leaking UST (LUST), environmental cleanup site/site mitigation, and/or hazardous materials release incident records are on file with the FCEHD for the subject site addresses of 6351 and 6361 E. Clinton Avenue.

State of California Regional Water Quality Control Board - Geotracker

Krazan's review of the State of California Regional Water Quality Control Board (RWQCB) Geotracker database available via the RWQCB Internet Website indicated that no cleanup sites including LUST sites, cleanup program sites, land disposal sites, or military sites are listed for the subject site, the adjacent properties, or properties located within the subject site vicinity. However, data available via the EDR database report includes record of two USTs associated with the subject site address of 6251 and 6361 East Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record, dated June 1, 1988, an 1,800-gallon diesel fuel UST and a 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Please refer to Appendix H for a copy of the referenced State Water Resources Control Board document.

State of California Department of Toxic Substances Control - Envirostor

Krazan's review of the State of California Department of Toxic Substances Control (DTSC) Envirostor database available via the DTSC's Internet Website indicated that no records of cleanup sites including State response sites, voluntary cleanup sites, school cleanup sites, or military or school evaluation sites are listed for the subject site, the adjacent properties, or properties located within 500 feet of the subject site. Additionally, no Federal Superfund – National Priorities List (NPL) sites were determined to be located within a one-mile radius of the subject site.

City of Fresno Fire Department

The City of Fresno Fire Department (CFFD) has jurisdiction for fire protection for the subject site and the immediate vicinity. The City of Fresno Fire Department CFFD was contacted via facsimile regarding potential records of hazardous materials storage in aboveground storage tanks or hazardous materials spill incidents for the subject site. As of the date of this report, the CFFD has not responded to Krazan's request. Krazan will forward any pertinent environmental data, if any, to the Client upon receipt.

California Department of Conservation, California Geologic Energy Management Division

Krazan's review of the State of California Department of Conservation, California Geologic Energy Management Division (CalGEM) GIS Online Mapping System indicated that no plugged and abandoned or producing oil wells are located on or adjacent to the subject site.

Local Area Tribal Records

No Indian reservations, USTs on Indian land, or LUSTs on Indian land were reported on the subject site, adjacent properties, or vicinity properties in the EDR-provided government database report.

6.5 Regulatory Agency Lists Review

Several agencies have published documents that list businesses or properties which have handled hazardous materials or waste or may have experienced site contamination. The lists consulted in the course of our assessment were compiled by EDR and Krazan and represent reasonably ascertainable current listings. Krazan did not verify the locations and distances of every property listed by EDR. Krazan verified the location and distances of the properties Krazan deemed as having the potential to adversely impact the subject site. The actual location of the listed properties may differ from the EDR listing. The following Table VII for a summary of the listed properties considered to have the potential to impact the subject site located within the specified ASTM Search Radii. The actual distances of the listed properties (which are summarized below) are based on observations during Krazan's site reconnaissance. No EDR-listed

unmapped (non-geocoded) sites were determined to be located on or adjacent to the subject site. Please refer to Appendix I for a copy of the EDR Radius Map Report.

TABLE VII
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	1	NR	1
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

TABLE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	1	NR	NR	NR	2
HIST UST	0.250		1	2	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		1	1	NR	NR	NR	2
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

TABLE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		2	1	NR	NR	NR	3

TABLE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	6	5	0	6	0	17

The following facility was listed for the subject site:

Rocha Farm — subject site
6351 East Clinton Avenue
According to EDR, this subject site facility is listed as a HIST UST, CA FID UST, and SWEEPS UST site. No hazardous materials or UST records for the subject site facility are on file with the regulatory agencies contacted for the subject site. Environmental concerns associated with the unregistered USTs are discussed in Section 8.0 of this report.

Hazardous Materials Migration in Vapor

Hazardous materials or petroleum product vapors which may have the potential to migrate into the subsurface of the subject site may be caused by the release of vapors from contaminated soil or groundwater either on or in the vicinity of the subject site from current or historical uses of the subject site and/or adjacent or vicinity properties. Current or past land uses such as gasoline stations (using petroleum hydrocarbons), dry cleaning establishments (using chlorinated volatile organic compounds), former manufactured gas plant sites (using volatile and semi-volatile organic compounds), and former industrial sites such as those that had vapor degreasing or other parts-cleaning operations (using chlorinated volatile organic compounds) are of particular concern. Constituent of concern vapors are capable of migrating great distances omni-directionally along subsurface conduits such as pipelines, utility lines, sewer and stormwater lines, and building foundations.

The EDR report indicates that two USTs were installed on the subject site in 1974. However, no records associated with the installation, operation, or removal of the USTs are on file with the FCEHD for the subject site addresses of 6351 or 6361 East Clinton Avenue. Consequently, the structural integrity of the gasoline and diesel fuel USTs is unknown over the period of time in which they were located on the subject site. The reported presence of the unregistered USTs represents a potential for vapor encroachment in the event a release has occurred. Please refer to Sections 8.0 of this report for a discussion of environmental concerns associated with the reported presence of the two USTs on the subject site.

Based on Krazan's observations and review of State and local regulatory agency records and the EDR regulatory database report, no listings of concern related to potential vapor migration were determined to be associated with the adjacent properties or properties located within the subject site vicinity. Review of vicinity properties listed by EDR as release sites within the applicable search radii suggests that these properties do not represent a significant potential for vapor migration in conjunction with the subject site. The rationale supporting this opinion includes the following:

- None of the reported sites were in close proximity to the subject site.
- Relevant sites had undergone investigation and remediation sufficient to receive regulatory agency closure.
- Sites with reported releases of minor quantities of COCs or COCs of limited volatility impacting soil only were considered of minimal concern.
- The lateral migration of the COCs in groundwater is reported to be limited and COCs were not detected in groundwater samples collected downgradient of the release and several hundred feet upgradient of the subject site.
- Sites with reported releases of COCs including volatile organic compounds (VOCs) were either of sufficient distance or hydraulically down- or cross-gradient from the subject site such that they do not appear to represent a significant potential for vapor migration on the subject site.

No engineering control sites, sites with institutional controls, or sites with deed restrictions were listed for the subject site, adjacent sites or vicinity properties in the EDR Report.

7.0 DISCUSSION OF FINDINGS

TABLE VIII
Summary of Conclusions

Apparent Evidence of RECs or PAOCs	Not Noted	Noted
Historical Uses		X
Current Uses		X
Adjacent or Vicinity Property Uses	X	

Historical Uses

Evidence of recognized environmental conditions (RECs) and potential areas of concern (PAOCs) have been identified in connection with the historical uses of the subject site which are discussed in the Conclusions/Opinions section of this report.

Current Uses

Based on Krazan's site reconnaissance, contacts with local regulatory agencies, and an interview with the owner of the subject site, there is evidence that recognized environmental conditions exist in connection with the current uses of the subject site. Additionally, potential areas of concern (PAOCs), ASTM non-scope issues and site development issues were identified in connection with the subject site which are discussed in the Conclusions/Opinions section of this report.

Adjacent or Vicinity Property Uses

Based on Krazan's field observations, review of the EDR government database report, and consultation with local regulatory agencies, there is no evidence that recognized environmental conditions exist in connection with the subject site from adjacent or vicinity property uses.

7.1 Evaluation of Data Gaps/Data Failure

In accordance with ASTM E 1527-13 guidance, data gaps represent a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice. Data failure represents the failure to achieve the historical research objectives of this practice even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. No data gaps were encountered during this assessment.

8.0 CONCLUSIONS

We have conducted a Phase I ESA of the subject site in conformance with the scope and limitations of the ASTM E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* guidance documents. Any deviations from this practice were previously described in this report. Krazan identified no evidence of controlled recognized environmental conditions (CRECs) or historical RECs (HRECs) in conjunction with the subject site as defined by ASTM E 1527-13. However, the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), ASTM non-scope issues, and site development issues was identified in conjunction with the subject site:

RECs

- Data available via the Environmental Data Resources (EDR) database report indicates that two fuel underground storage tanks (USTs) are associated with the subject site address of 6351 East Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record dated June 1, 1988, one 1,800-gallon diesel fuel UST and one 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Mr. Anthony Rocha, the son of the owner of the subject site, confirmed that two fuel USTs were previously located approximately 40 feet to the east of the southern-most pole barn in the central-western portion of the subject site. Mr. Rocha, familiar with the subject site for 30+ years, indicated that the fuel dispensers associated with these two USTs were located directly above the USTs. Mr. Rocha indicated that the fuel USTs were removed when secondary containment was

required, which he stated to be the late-1980s. Mr. Rocha stated that the property owner removed the USTs and properly disposed the USTs, and he indicated that no obvious sign of contamination was noted. Mr. Rocha stated that there is no documentation related to the removal of the USTs and he indicated that no soil samples were collected beneath the USTs for analysis.

Consistent with Mr. Rocha's statements, no records pertaining to the installation, operation, or removal of a UST located at the 6351 or 6361 E. Clinton Avenue addresses are on file with the Fresno County Environmental Health Division (FCEHD), the agency responsible for UST oversight in Fresno County. Furthermore, no record of subsurface soil/groundwater sampling or of site closure activities associated with the diesel fuel and gasoline USTs is on file with the FCEHD. Consequently, the condition of the USTs at removal is not formally documented and the condition of the subsurface of this property proximate to the former USTs at the time of UST removal is unknown. Given the time frame in which the diesel fuel and gasoline USTs were reportedly installed (1974) and the above-referenced information contained in the State Water Resources Control Board database, it appears likely that a steel tank and steel product distribution lines without corrosion protection were located at this property, and the actual condition/structural integrity of these tanks and product distribution lines during the time of operation are unknown. Consequently, given the above-referenced considerations, the potential exists for an unauthorized release(s) of diesel fuel and/or gasoline to have occurred as the result of the historical operation of these two fuel USTs and fuel dispensers on site for an extended period of time circa 1974, and the condition of the subsurface of the subject site proximate to these former fuel USTs/dispensers is unknown.

- During Krazan's October 21, 2021 site reconnaissance, significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. At each of these locations, apparent hazardous materials surface impacts and/or potential subsurface hazardous materials impacts were noted, including: 1) an oil and waste oil storage area located on a concrete pad west of the sheet metal shop/storage building and on unpaved ground adjacent to this concrete pad; 2) beneath herbicide/pesticide and petroleum solvent-based oil surfactant adjuvant containers stored on shelving above asphalt pavement of unknown integrity within a dilapidated storage building located adjacent to the northwest of the northern-most pole-barn; and, 3) beneath apparently non-operational equipment on asphalt pavement of unknown integrity located in the western portion of the southern-most pole-barn. The surficial soil staining observed at the hazardous materials storage area west of the sheet metal shop/storage building and beneath the equipment located at the southern-most pole-barn had an appearance consistent with weathered petroleum hydrocarbons. The staining observed beneath the pesticide/herbicide storage shelving had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent-based oil surfactant adjuvant which was also observed on the shelving. In general, the surface staining was limited to an area of approximately 10 to 50 square feet at each of the three above-referenced locations. Although the asphaltic material at the two locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced area of stained/discolored soil is unknown.

- A steel-plate covered subsurface mechanics pit was observed in the central southern portion of the on-site shop/storage building which was covered with stored materials. Mr. Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. Although the mechanics

pit was inaccessible, he indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Due to access limitations, Krazan's assessor was not able to ascertain the overall structural integrity of the mechanic's pit or if cracks could be seen on the surface. Consequently, the condition of the mechanic's pit floor, overall structural integrity or evidence of a release of hazardous materials could not be ascertained. Therefore, the condition of the subsurface surrounding the mechanic's pit in regards to potential releases of historical automobile repair and servicing constituents of concern is unknown.

PAOCs

- Krazan's review of an aerial photograph of the subject site taken in 1937 indicates that the central portion of the subject site was occupied by a rural residence, including a dwelling and at least one small outbuilding in a location consistent with the existing residential dwelling, and the central-southern portion of the subject site was occupied by three structures which may have been a second residential area or were outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to have been utilized for agricultural purposes in 1937. The three structures located in the central-southern portion of the subject site were present through 1962; however, all of these structures had been removed from the subject site prior to 1967. Historical uses of the subject site prior to 1937 were not reasonably ascertainable utilizing the standard historical references consulted during this assessment, and it is therefore unknown how long the rural residential/barn/outbuilding structures were located on the subject site prior to 1937.

  Mr. Rocha, the son of the owner of the subject site, stated that USTs were associated with the existing residential area located in the northwestern portion of the subject site, which appears to date back to 1937, and these former USTs were discussed previously. Mr. Rocha indicated that he was not aware of any other USTs being located on the subject site and the structures previously located in the central-southern portion of the subject site predate Mr. Rocha's knowledge of the subject site. Consequently, the status of the structures historically located in the central-southern portion of the subject site relative to the potential presence of USTs is unknown. As indicated previously, no records of USTs for the subject site are on file with the local regulatory agencies; however, USTs on rural or agricultural properties historically have been exempt from requirements for registration with regulatory agencies. Furthermore, Krazan's experience with such properties has shown that it is not uncommon for property owners/operators to install USTs for their convenience, especially in the vicinity of structures, which are undocumented and whose presence would remain unknown in spite of the standard data research conducted in the course of this Phase I ESA. It is therefore possible that subsurface features such as unregistered fuel USTs may exist within the above-referenced central-southern portion of the subject site which remain unknown based on the absence of any regulatory, municipality, and/or interview data, or other evidence indicating their presence or location. Since the central-southern portion of the subject site has been cultivated with various crops since at least 1967, the possibility exists that subsurface features such as USTs would have been discovered at the time of cultivation; however, there was no available data to support this presumption. Consequently, despite an absence of data suggesting their presence, the presence or absence of USTs associated with on-site structures in a historical agricultural setting on the subject site prior to the current owner's familiarity with the subject site is unknown.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted. Please refer to Appendix A for a copy of the USFWS map showing the referenced designated wetland.

- A structure in a location generally consistent with the existing residential dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). An asbestos and/or LBP survey and sampling of the on-site structures were not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs and LBP may be present at the subject site. During Krazan's October 21, 2021 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Furthermore, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect ACMs or LBP at this property via renovation or demolition, a comprehensive asbestos and LBP survey designed to determine if the suspect ACM and LBP are regulated materials is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Site Development Issues

- A domestic water well and an agricultural water well were observed during Krazan's October 21, 2021 site reconnaissance. According to Mr. Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the water wells and septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

9.0 RELIANCE

This report was prepared solely for use by Client and should not be provided to any other person or entity without Krazan & Associates' prior written consent. No party other than Client may rely on this report without Krazan & Associates' express prior written consent. Reliance rights for third parties will only be in effect once requested by Client and authorized by Krazan & Associates with authorization granted by way of a Reliance Letter. The Reliance Letter will require that the relying party(ies) agree to be bound to

the terms and conditions of the agreement between Client and Krazan & Associates as if originally issued to the relying party(ies), or as so stipulated in the Reliance Letter.

10.0 LIMITATIONS

The site reconnaissance and research of the subject site has been limited in scope. This type of assessment is undertaken with the calculated risk that the presence, full nature, and extent of contamination would not be revealed by visual observation alone. Although a thorough site reconnaissance was conducted in accordance with ASTM Guidelines and employing a professional standard of care, no warranty is given, either expressed or implied, that hazardous material contamination or buried structures, which would not have been disclosed through this investigation, do not exist at the subject site. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used.

The findings presented in this report were based upon field observations during a single property visit, review of available data, and discussions with local regulatory and advisory agencies. Observations describe only the conditions present at the time of this investigation. The data reviewed and observations made are limited to accessible areas and currently available records searched. Krazan cannot guarantee the completeness or accuracy of the regulatory agency records reviewed. Additionally, in evaluating the property, Krazan has relied in good faith upon representations and information provided by individuals noted in the report with respect to present operations and existing property conditions, and the historical uses of the property. It must also be understood that changing circumstances in the property usage, proposed property usage, subject site zoning, and changes in the environmental status of the other nearby properties can alter the validity of conclusions and information contained in this report. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used.

This report is provided for the exclusive use of the client noted on the cover page and shall be subject to the terms and conditions in the applicable contract between the client and Krazan. Any third party use of this report, including use by Client's lender, shall also be subject to the terms and conditions governing the work in the contract between the client and Krazan. The unauthorized use of, reliance on, or release of the information contained in this report without the express written consent of Krazan is strictly prohibited and will be without risk or liability to Krazan.

Conclusions and recommendations contained in this report are based on the evaluation of information made available during the course of this assessment. It is not warranted that such data cannot be superseded by future environmental, legal, geotechnical or technical developments. Consequently, given the possibility for unanticipated hazardous conditions to exist on a subject site which may not have been discovered, this Phase I ESA is not intended as the basis for a buyer or developer of real property to waive their rights of recovery based upon environmental unknowns. Parties that choose to waive rights of recovery prior to site development do so at their own risk.

Parties who seek to rely upon Phase I Environmental Site Assessment reports dated more than 180 days prior to the date of reliance do so at their own risk. This limitation in reliance is based on the potential for physical changes at the site, changes in circumstances, technological and professional advances, and guidance related to the continued viability of Environmental Site Assessment reports, user's responsibilities, and requirements for updating of components of the inquiry as stated in the ASTM Standard E 1527-13.

11.0 QUALIFICATIONS

This Phase I ESA was conducted under the supervision or responsible charge of Krazan's undersigned environmental assessor with oversight from the undersigned environmental professional. The work was conducted in accordance with ASTM E 1527-13 guidance, generally accepted industry standards for environmental due diligence in place at the time of the preparation of this report, and Krazan's quality-control policies.

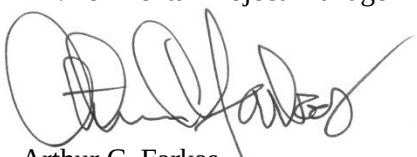
We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property.

We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Kenneth R. Sani, REPA No. 872367
Environmental Project Manager



Arthur C. Farkas
Environmental Professional

KRS/ACF/mlt

REFERENCES

Aerial photographs obtained from Environmental Data Resources, Inc. (EDR), and Google Earth™.

American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment (ESA) Process*, ASTM Designation: E 1527-13.

ASTM, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions,* ASTM Designation E 2600-10.

City of Fresno Fire Department.

City of Fresno Planning and Development Department (CFPDD).

EDR, Sanborn Fire Insurance Map *Unmapped Property* Report.

EDR, Regulatory Database Report.

Fresno County Department of Public Health, Environmental Health Division, Master Hazardous Materials Handling Facilities List, October 2020.

Rocha, Mr. Anthony, Son of the Owner of the Subject Site.

State of California Geologic Energy Management Division (CalGEM) Maps Website: https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx

State of California Department of Toxic Substances Control, Envirostor Website: http://www.envirostor.dtsc.ca.gov/public

State of California Regional Water Quality Control Board, Geotracker Website: http://geotracker.swrcb.ca.gov

State of California, Department of Water Resources, *Sustainable Groundwater Management Act (SGMA) Data Viewer, Spring 2018.*

U.S. Environmental Protection Agency (EPA) *Map of Radon Zones*.

U.S. Geological Survey, 7.5-minute Clovis, California topographic quadrangle map, 1964, photo-revised 1981.

GLOSSARY OF TERMS

Subject Site: The real property being investigated under this Phase I ESA.

Adjacent Properties: Properties which are contiguous with the subject site, or would be contiguous except for a street, road, or other public thoroughfare.

Subject Site Vicinity: Properties located within a 500-foot radius of the subject site.

Environmental Professional: A person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). The EP may be an independent contractor or an employee of the user.

User: The party seeking to use Practice E 1527 to complete an environmental site assessment of the subject site. A user may include, without limitation, a potential purchaser of the subject site, a potential tenant of the subject site, an owner of the subject site, a lender, or a property manager.

Recognized Environmental Condition (REC): In defining a standard of good commercial and customary practice for conducting an environmental site assessment of a parcel of property, the goal of the processes established by this practice is to identify recognized environmental conditions. The term recognized environmental conditions means the 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. *De minimis* conditions are not recognized environmental conditions.

Controlled Recognized Environmental Condition (CREC): A 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 (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). For example, if a leaking underground storage tank has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a CREC. The "control" is represented by the restriction that the property use remain commercial. A condition considered by the environmental professional to be a CREC shall be listed in the findings section of the Phase I ESA report and as an REC in the conclusions section. A condition identified as a CREC does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.

Historical Recognized Environmental Condition (HREC): A 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release an HREC, the environmental professional must determine whether the past release is an REC at the time the Phase I ESA is conducted (for example, if there has been change in the regulatory criteria). If the EP considers the past release to be an REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as an REC.

GLOSSARY OF TERMS (continued)

Potential Area of Concern (PAOC): A term adopted to provide an alternative designation to the REC and HREC for a range of environmental issues related to current subject site uses, historical subject site uses, or from adjacent and/or vicinity property uses. The PAOC is utilized to emphasize full disclosure and provide the User with conclusions and recommendations related to potential environmental issues in connection with the subject site based on Krazan's professional experience in cases where official documentation or other evidence may be absent in order to identify an REC or HREC, thereby aiding the User's considerations of environmental due diligence risk tolerance.

Migrate/migration: For the purposes of this practice, "migrate" and "migration" refer to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. Vapor migration in the subsurface is described in ASTM E 2600-10 guidance; however, nothing in the E 1527-13 practice should be construed to require application of the E 2600-10 standard to achieve compliance with AAI.

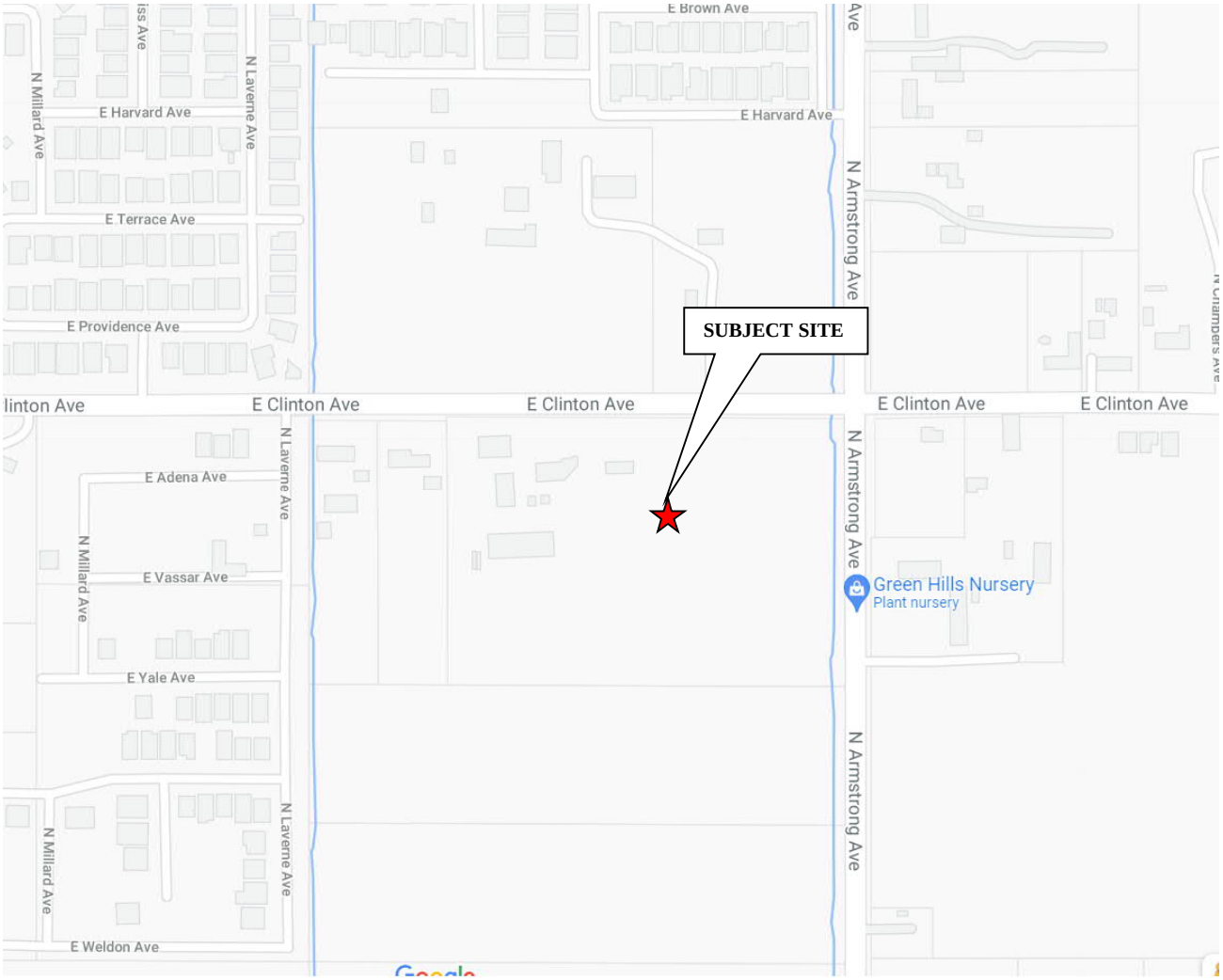
De minimis condition: A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Condition determined to be *de minimis conditions* are not RECS or CRECs.

Data Gap: A lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to the site reconnaissance and interviews.

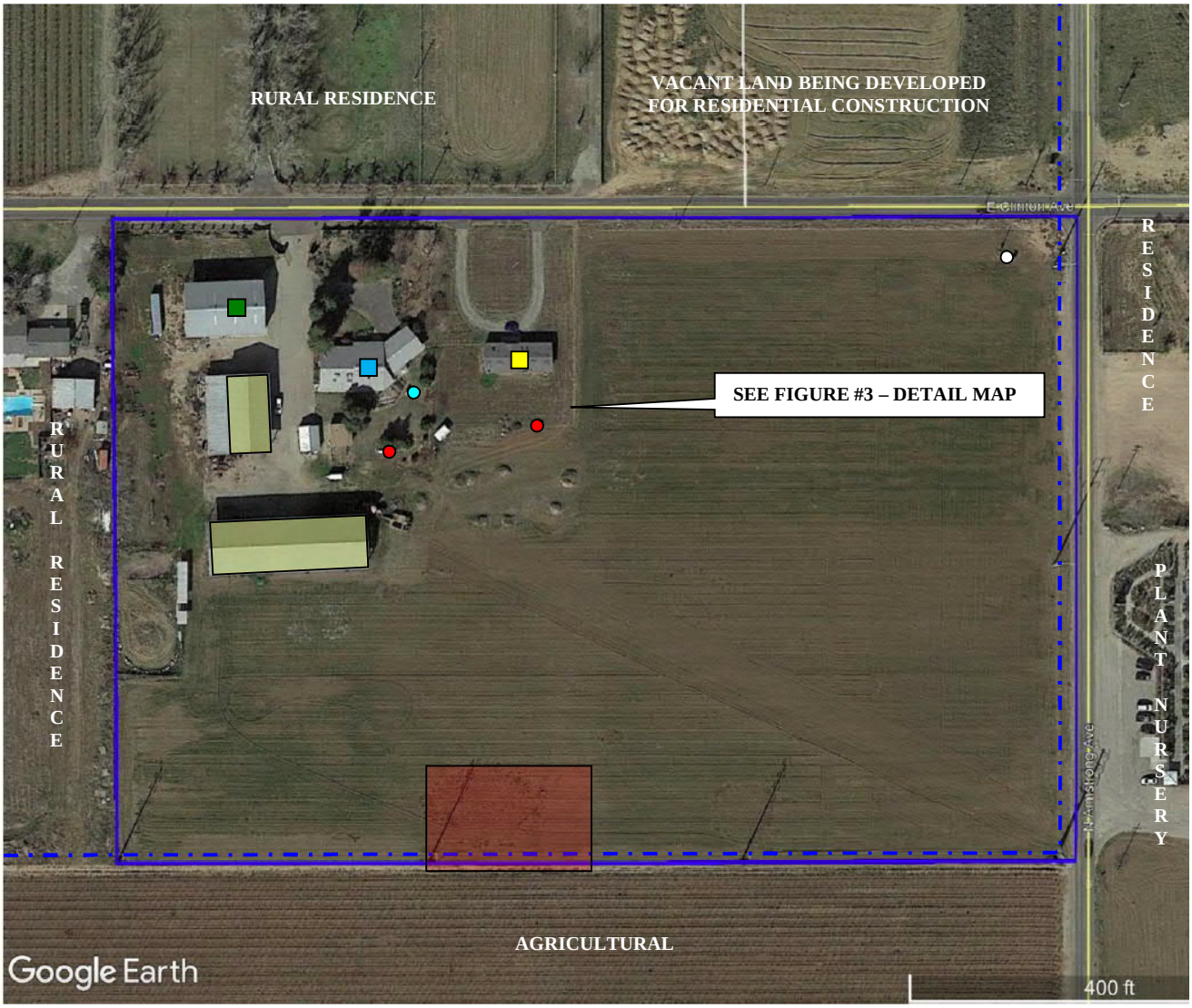
Data Failure: A failure to achieve the historical research objectives even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

GLOSSARY OF TERMS (continued

AAI	All Appropriate Inquiries
AC	Asphalt Concrete
ACM	Asbestos-Containing Materials
AOC	Area of Concern
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AS	Air Sparging
AUL	Activity & Use Limitations
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CMU	Concrete Masonry Unit
COCs	Constituents of Concern
DEULs	Declaration of Environmental Use Restrictions
DOGGR	Division of Oil, Gas & Geothermal Resources (CA)
DTSC	Department of Toxic Substances Control (CA)
EC	Engineering Control
EDR	Environmental Data Resources, Inc.
EP	Environmental Professional
EPA	United States Environmental Protection Agency
ERP	Emergency Response Plan
ESA	Environmental Site Assessment
ESL	Environmental Screening Level
FOIA	Freedom of Information Act
GPR	Ground Penetrating Radar
HCCD	Haines Criss-Cross Directory
HFIM	Historical Fire Insurance Map
HMBP	Hazardous Materials Business Plan
HREC	Historical Recognized Environmental Condition
HVAC	Heating, Ventilation, Air Conditioning
IC	Institutional Control
LBP	Lead-Based Paint
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LUC	Land Use Control
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
µg/L	Micrograms Per Liter
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MSDS	Material Safety Data Sheet
MTBE	Methyl Tertiary Butyl Ether
MFR	Multi-Family Residential
ND	Nondetectable
NFA	No Further Action (letter)
NPDES	National Pollution Discharge Elimination System
NPL	National Priorities List
O&M	Operations & Maintenance Plan
PAOC	Potential Area of Concern
PCB	Polychlorinated Biphenyl
PCC	Portland Cement Concrete
PCE	Perchloroethylene
PEC	Potential Environmental Concern (TS)
PGD	Polk Guide Directory
PG&E	Pacific Gas & Electric
PHCs	Petroleum Hydrocarbon Constituents
PID	Photoionization Detector
ppb	Parts Per Billion
ppm	Parts Per Million
PRG	Preliminary Remediation Goal
PRP	Potentially Responsible Party
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RP	Responsible Party
RWQCB	Regional Water Quality Control Board (CA)
SBA	Small Business Administration
SFR	Single-Family Residential
SPCC	Spill Prevention Control and Countermeasure Plan
SQG	Small Quantity Generator
SCE	Southern California Edison
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SWRCB	State Water Resources Control Board
TCE	Trichloroethylene
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TS	Transaction Screen
USGS	United States Geological Survey
USFWS	United States Fish & Wildlife Service
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VES	Vapor Encroachment Screening
VOCs	Volatile Organic Compounds



VICINITY MAP	Scale: NTS	Date: November 2021	Krazan
ROCHA PROPERTY 6351 AND 6361 EAST CLINTON AVENUE FRESNO, CALIFORNIA 93727	Drawn By: KS	Approved by: KS	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western U. S.*
	Project No. 014-21164	Figure No. 1	



= SUBJECT SITE BOUNDARY (APPROXIMATE)
= HIGH-VOLTAGE ELECTRICAL TRANSMISSION LINES
= AGRICULTURAL WATER WELL (ELECTRICALLY POWERED)
= PROPANE ABOVEGROUND STORAGE TANKS
= DOMESTIC WATER WELL (ELECTRICALLY POWERED)
= SINGLE-FAMILY HOME = MOBILE HOME
= POLE BARN = ENCLOSED SHEET METAL SHOP/STORAGE BUILDING
= APPROXIMATE LOCATION OF HISTORICAL RESIDENTIAL AREA (1937 – 1962 AERIAL PHOTOGRAPHS)

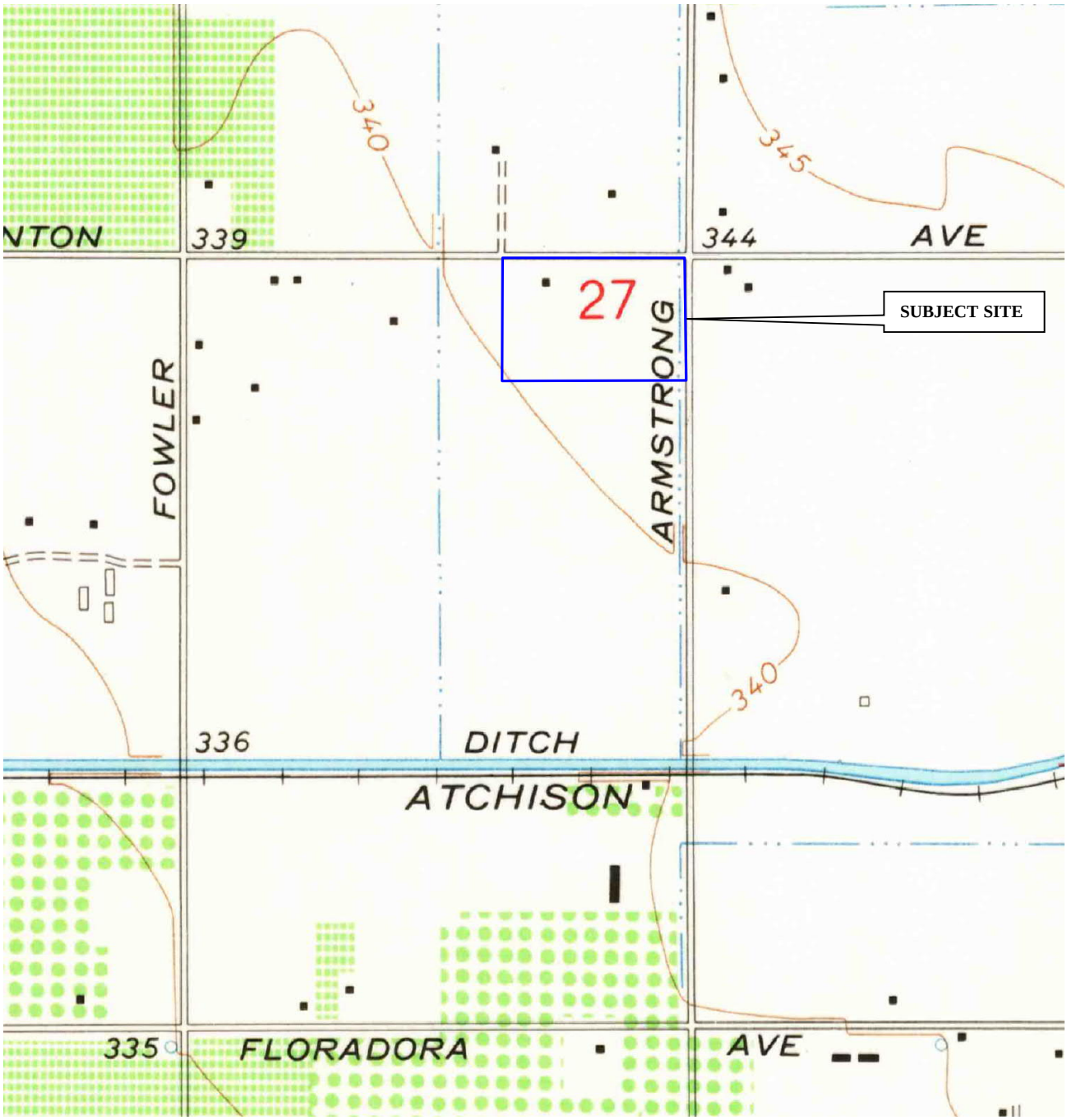
SITE MAP	Scale: NTS	Date: November 2021	Krazan
ROCHA PROPERTY 6351 AND 6361 EAST CLINTON AVENUE FRESNO, CALIFORNIA 93727	Drawn By: KS	Approved by: KS	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western U. S.*
	Project No. 014-21164	Figure No. 2	



= SUBJECT SITE BOUNDARY (APPROXIMATE)
= WELDING GASES/MAINTENANCE MATERIALS
= REPORTED APPROXIMATE LOCATION OF TWO FORMER FUEL USTs & FUEL DISPENSERS
= HERBICIDE STORAGE AREA WITH SURFACE STAINING
= PESTICIDE & HERBICIDE STORAGE LOCKER AND SHELVING
= WOODEN STORAGE BLDG
= MECHANICS PIT (APPROXIMATE LOCATION)
= STORAGE (GARAGE/SHED/CARGO CONTAINER)
= SURFACE STAINING BENEATH FORKLIFT/TRACTOR ON ASPHALT-TYPE PAVEMENT
= CANOPY-COVERED CONCRETE PAD UTILIZED FOR HAZARDOUS MATERIALS STORAGE
= SURFACE STAINING – CONCRETE PAD AND POTENTIAL IMPACT TO ADJACENT UNPAVED GROUND

N

SITE MAP	Scale: NTS	Date: November 2021	Krazan
ROCHA PROPERTY 6351 AND 6361 EAST CLINTON AVENUE FRESNO, CALIFORNIA 93727	Drawn By: KS	Approved by: KS	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western U. S.*
	Project No. 014-21164	Figure No. 3	



7.5-MINUTE SERIES
USGS TOPOGRAPHIC MAP
CLOVIS, CALIFORNIA
DATED 1964
PHOTO REVISED 1981

= SUBJECT SITE BOUNDARY

TOPOGRAPHIC MAP **ROCHA PROPERTY** **6351 AND 6361 EAST CLINTON AVENUE** **FRESNO, CALIFORNIA 93727**	**Scale:** NTS	**Date:** November 2021	Krazan **SITE DEVELOPMENT ENGINEERS** ***With Offices Serving the Western U. S.***
	Drawn By: KS	**Approved by:** KS	
	Project No. 014-21164	**Figure No.** 4	

Appendix A



Photo 1: View of the single-family residential dwelling located in the northwestern portion of the subject site.



Photo 2: Interior view of the living room in the single-family residential dwelling located in the northwestern portion of the subject site.



Photo 3: View of the detached garage located in the northwestern portion of the subject site associated with the single-family residential dwelling.



Photo 4: View of the mobile home located in the northwestern portion of the subject site.

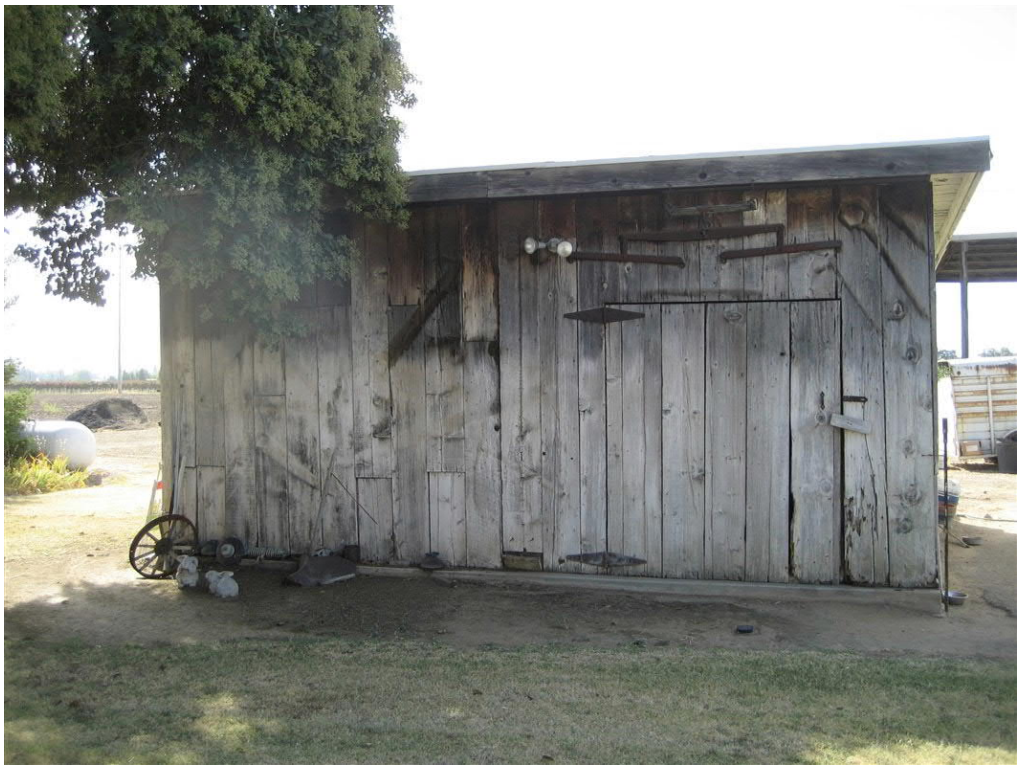


Photo 5: View of the storage shed located in the northwestern portion of the subject site adjacent to the south of the single-family home.



Photo 6: Interior view of the storage shed located in the northwestern portion of the subject site adjacent to the south of the single-family home.



Photo 7: View of the sheet metal shop/storage building located in the northwestern corner of the subject site.



Photo 8: Interior view of the central and western portions of the on-site shop/storage building.



Photo 9: Interior view of the northern portion of the on-site shop/storage building.



Photo 10: View of a plate-covered feature reported to be a mechanics pit located in southern portion of the shop/storage building.



Photo 11: Interior view of a portion of the office build-up located in the eastern portion of the on-site shop/storage building.



Photo 12: View of the northern-most pole-barn and attached storage building located in the northwestern portion of the subject site. Two trucks, a van, two automobiles, and a tractor can be seen beneath the metal canopy.



Photo 13: View of the materials/debris located in the central portion of the northern-most pole-barn.



Photo 14: View of the materials/debris located in the southwestern portion of the northern-most pole-barn.



Photo 15: Interior view of the attached storage building located adjacent to the northwest of the northern-most pole-barn which includes pesticides storage areas.



Photo 16: Western facing view of the southern-most pole-barn located in the northwestern portion of the subject site.



Photo 17: View of a corral and animal shelters located in the central-western portion of the subject site.



Photo 18: View of compressed welding gases and common maintenance materials located in the western portion of the shop/storage building.



Photo 19: View of the covered concrete pad located adjacent to the west of the shop/storage building which is utilized for oil/hazardous materials storage.



Photo 20: View of the oil drums, waste oil containers, 5-gallon lubricant containers and significant surface staining located in the northern portion of the oil storage area.



Photo 21: View of discolored surface soil located adjacent to the north and west of the northern portion of the oil storage area.



Photo 22: View of a locker located in the storage building adjacent to the northwest of the northern-most pole-barn utilized for storage of pesticides and herbicides.



Photo 23: View of a pesticide, herbicide and petroleum solvent-based adjuvant storage area located in the storage building adjacent to the northern-most pole-barn.



Photo 24: View of a surface staining located beneath the pesticide, herbicide and petroleum solvent-based adjuvant storage area.



Photo 25: View of surface staining located on asphaltic material beneath equipment in the western portion of the southern-most pole barn.



Photo 26: View of the propane AST located in the northwestern portion of the subject site which is associated with the single-family home.



Photo 27: Eastern facing view of the central portion of the eastern area of the subject site.



Photo 28: Southwestern facing view of the subject site form the northeastern corner.



Photo 29: Southern facing view of the high-voltage electrical transmission lines located along the eastern boundary of the subject site.



Photo 30: View of the agricultural water well located in the northeastern portion of the subject site.



Photo 31: View of the tool bench, tools, and storage containers located in the on-site shop/ storage building.



Photo 32: Northwestern-facing view of the agricultural water well, empty 55-gallon drum, and wooden crate located in the northeastern portion of the subject site.

Appendix B

U.S. Fish and Wildlife Service
National Wetlands Inventory

6351 E. Clinton Avenue - Fresno



September 13, 2018

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Appendix C

ENVIRONMENTAL LIEN AND AUL REPORT

Order Number:
79-221415-47

Subject Property:
6351 EAST CLINTON AVENUE
FRESNO, CA 93727

Effective:
09/23/2021

Completed:
10/20/2021

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-221415-47 | Completed: 10/20/2021 | Effective: 09/23/2021

SOURCES SEARCHED

Source 1: FRESNO COUNTY RECORDER'S OFFICE
Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

TARGET PROPERTY

Current Owner(s): TONY J. ROCHA AND EMILY K. ROCHA, TRUSTEES OF THE ROCHA REVOCABLE LIVING TRUST DATED MARCH 9, 2018
Street Address: 6351 EAST CLINTON AVENUE
City, State Zip Code: FRESNO, CA 93727
APN/Parcel/PIN: 574-050-02 County: FRESNO
Legal Description: 12.65 AC PAR IN PAR 2 OF P/M 1329 BK 5 PG 14

PROPERTY OWNERSHIP

Instrument: **GRANT DEED**

Date Recorded: 03/13/2018 Instrument: 2018-0029536
Dated: 03/09/2018
Grantor(s): TONY J. ROCHA, AKA ANTHONY J. ROCHA AND EMILY K. ROCHA, HUSBAND AND WIFE
Grantee(s): TONY J. ROCHA AND EMILY K. ROCHA, TRUSTEES OF THE ROCHA REVOCABLE LIVING TRUST DATED MARCH 9, 2018
Notes: 1) SEE DEED RECORDED 11/08/2018 IN INSTRUMENT NO. 2018-136027. 2) SEE AFFIDAVIT RECORDED 04/02/2021 IN INSTRUMENT NO. 2021-0054690.

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND FOR SUBJECT PROPERTY.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND FOR SUBJECT PROPERTY.

LEASES

NO LEASES FOUND FOR SUBJECT PROPERTY.

MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND FOR SUBJECT PROPERTY.

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-221415-47

Our Environmental Lien and AUL report provides a summary of recorded information on a specific property from the time the current owner purchased the property, to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from the time the current owner purchased the property, forward.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DISCLAIMER

This report was prepared for the intended use of AFX Research, LLC (AFX) and client, exclusively. This report is not a guarantee of title, nor a commitment to insure, nor a policy of title insurance. No warranty, expressed or implied, is made whatsoever in connection with this report. AFX Research, LLC specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

RECORDING REQUESTED BY:

VAL DORNAY, Attorney

When Recorded Mail Document and Tax Statement To:

Name: Mr. & Mrs. Tony J. Rocha
Street: 6351 E. Clinton Ave.
City, State: Fresno, CA 93727
Zip

FRESNO County Recorder
Paul Dictos, C.P.A.
DOC- 2018-0029536
Check Number 7862
Tuesday, MAR 13, 2018 09:52:36
Ttl Pd $22.00 Rcpt # 0004958375
ELP/R6/1-2

APN: 310-041-20

GRANT DEED

This conveyance transfers an interest into or out of a Living Trust, R&T 11930.
The undersigned grantor(s) declare(s)
Documentary transfer tax is $ 0 City tax $_____
[ ] computed on full value of property conveyed, or
[ ] computed on full value less value of liens or encumbrances remaining at time of sale,
[ ] Unincorporated Area City of _____
Exempt per GC 27388.1 (a) (2); a transfer of real property that is a residential dwelling to an owner-occupier.
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
TONY J. ROCHA, aka ANTHONY J. ROCHA and EMILY K. ROCHA, Husband and Wife,

hereby GRANT(S) to: TONY J. ROCHA and EMILY K. ROCHA, trustees of THE ROCHA REVOCABLE LIVING TRUST dated March 9, 2018,

the following described real property in the City of Fresno, County of Fresno, State of California:

See Exhibit "A" for legal description attached hereto and made a part hereof.

DATED: March 9, 2018

TONY J. ROCHA, aka ANTHONY J. ROCHA

EMILY K. ROCHA

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA
COUNTY OF FRESNO
ON March 9, 2018 before me,
J. E. Crowley, Notary Public personally appeared
TONY J. ROCHA, aka ANTHONY J. ROCHA and EMILY K. ROCHA
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

J. E. CROWLEY
Commission # 2124002
Notary Public - California
Fresno County
My Comm. Expires Sep 15, 2019

Witness my hand and official seal.

Signature _____
Notary Public

EXHIBIT "A"

Legal Description

All that portion of Lot 11 of the Subdivision of Section 27, Township 13 South, Range 21 East, Mount Diablo Base and Meridian, according to the Map thereof recorded in Book 5, Page 14, of Plats, in the Office of the County Recorder of said County, described as follows:

Beginning at the Northeast corner of that certain Parcel of land conveyed to Jack W. Martin, et ux by Deed recorded April 20, 1973 in Book 6154 Page 859 as Instrument No. 37246, said Northeast corner being 331.54 feet East of the Northeast corner of said Lot 11 thence South 00° 01' 01" West along the East line of said above Parcel of land, a distance of 630.98 feet to the Southeast corner of said above Parcel of land; thence North 89° 59' 10" East, a distance of 915 feet more or less to the East line of said Lot 11; thence North along the East line of said Lot 11, a distance of 631.03 feet, more or less to the Northeast corner of said Lot 11; thence West along the North line of said Lot 11, a distance of 974.62 feet, more or less to the point of beginning.

Said land is also described as Parcel 2 of Parcel Map 1329, according to the Map recorded in Book 6, Page 95, of Official Records.

APN: 310-041-20

Recorded at Request of
Old Republic Title Company
14110112204-DB
RECORDING REQUESTED BY

Tony J. Rocha and Emily K. Rocha, Trustees

AND WHEN RECORDED MAIL THIS DEED AND, UNLESS OTHERWISE SHOWN BELOW, MAIL TAX STATEMENT TO:

Name Tony J. Rocha and Emily K. Rocha, Trustees
Street Address 6351 E. Clinton Avenue
City & State Zip Fresno, California 93727

Title Order No. Escrow No.

Fresno County Recorder
Paul Dictos, CPA
2018-0136027
Recorded at the request of:
OLD REPUBLIC TITLE COMPANY |
11/08/2018 11:48 16
Titles: 1 Pages: 2
Fees: $22.00
CA SB2 Fees:$75.00
Taxes: $0.00
Total: $97.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Quitclaim Deed

THE UNDERSIGNED GRANTOR (S) DECLARE (S) APN: 310-041-20

DOCUMENTARY TRANSFER TAX IS $ -0-

☒ unincorporated area City of _____

☐ computed on full value of interest or property conveyed, or
☐ computed on full value less value of liens or encumbrances remaining at time of sale, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ANTHONY J. ROCHA and EMILY K. ROCHA, husband and wife (collectively, "Grantor"),

hereby REMISE, RELEASE AND FOREVER QUITCLAIM to

TONY J. ROCHA and EMILY K. ROCHA, Trustees of the ROCHA REVOCABLE LIVING TRUST, dated March 9, 2018,

the following described real property in the unincorporated area of the

County of Fresno , state of California

See Exhibit "A" attached hereto and incorporated herein by reference.

[By this Quitclaim Deed, Grantor does hereby revoke and terminate the deed restrictions in that certain Joint Tenancy Grant Deed, dated July 24, 1973, recorded October 4. 1973 in Book 6220 of Official Records, Page 718 under Recorder's Serial Number 69572, which are no longer in force and effect.

Dated Nov 3, 2018

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA
COUNTY OF FRESNO

On 11-3-18 before me,

D. Leon,
(here insert name and title of the officer)

,notary public, personally appeared Anthony J. Rocha, Emily K. Rocha,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the state of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

Signature _____

Anthony J. Rocha
ANTHONY J. ROCHA

Emily K. Rocha
EMILY K. ROCHA

D. LEON
NOTARY PUBLIC CALIFORNIA
COMMISSION # 2211319
FRESNO COUNTY
My Comm. Exp. September 21, 2021

(This area for official notarial seal)

MAIL TAX STATEMENTS TO PARTY SHOWN ON FOLLOWING LINE; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE

Tony J. Rocha and Emily K. Rocha, Trustees 6351 E. Clinton Avenue Fresno, California 93727
Name Street Address City, State & Zip

ORDER NO. : 1411011204

EXHIBIT A

The land referred to is situated in the unincorporated area of the County of Fresno, State of California, and is described as follows:

All that portion of Lot 11 of the Subdivision of Section 27, Township 13 South, Range 21 East, Mount Diablo Base and Meridian, according to the Map thereof Recorded in Book 5, Page 14, of Plats, in the Office of the County Recorder of said County, described as follows:

Beginning at the Northeast corner of that certain Parcel of land conveyed to Jack W. Martin, et ux by Deed Recorded April 20, 1973 in Book 6154 Page 859 as Instrument No. 37246, said Northeast corner being 331.54 feet East of the Northeast corner of said Lot 11 thence South 00° 01' 01" West along the East line of said above Parcel of land, a distance of 630.98 feet to the Southeast corner of said above Parcel of land; thence North 89° 59' 10" East, a distance of 915 feet more or less to the East line of said Lot 11; thence North along the East line of said Lot 11, a distance of 631.03 feet, more or lees to the Northeast corner of said Lot 11; thence West along the North line of said Lot 11, a distance of 974.62 feet, more or less to the point of beginning.

Said land is also descried as Parcel 2 of Parcel Map 1329, according to the Map Recorded in Book 6, Page 95, of Official Records.

APN: 310-041-20

3

2021-0054690
FRESNO County Recorder
Paul Dictos, CPA
Friday, Apr 02, 2021 12:21:46 PM
Titles: 1 Pages: 3
Fees: $25.00
CA SB2 Fee: $0.00
Taxes: $0.00
Total: $25.00
VAL DORNAY ATTORNEY AT LAW

Recording Requested by:
VAL DORNAY, ATTORNEY

When recorded return to and
MAIL TAX STATEMENTS TO:

TONY J. ROCHA
6351 E. Clinton Ave.
Fresno, CA 93727

AFFIDAVIT OF DEATH OF CO-TRUSTEE

(Exempt per GC 27388.1 (a) (2); a transfer of real property that is a residential dwelling to an owner-occupier.)

TONY J. ROCHA, of legal age, being first duly sworn, deposes and says:

That **EMILY KRISTINA ROCHA**, the decedent mentioned in the attached certified copy of Certificate of Death, is the same person as **EMILY K. ROCHA**, named as one of the parties in that certain GRANT DEED, dated March 9, 2018, to **TONY J. ROCHA** and **EMILY K. ROCHA**, Trustees of **THE ROCHA REVOCABLE LIVING TRUST**, recorded as Document No. 20180029536, March 13, 2018, of Official Records in the Office of the County Recorder of Fresno County, State of California, described as follows:

See Exhibit "A" for legal description attached hereto and made a part hereof.

APN: 310-041-20

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Dated: March 29, 2021

TONY J. ROCHA, Trustee

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF FRESNO

Subscribed and Sworn to (or affirmed) before me this 29th day of March, 2021, by **TONY J. ROCHA** proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

J. E. CROWLEY
Notary Public - California
Fresno County
Commission # 2302036
My Comm. Expires Sep 15, 2023

Notary Signature

EXHIBIT "A"

Legal Description

All that portion of Lot 11 of the Subdivision of Section 27, Township 13 South, Range 21 East, Mount Diablo Base and Meridian, according to the Map thereof recorded in Book 5, Page 14, of Plats, in the Office of the County Recorder of said County, described as follows:

Beginning at the Northeast corner of that certain Parcel of land conveyed to Jack W. Martin, et ux by Deed recorded April 20, 1973 in Book 6154 Page 859 as Instrument No. 37246, said Northeast corner being 331.54 feet East of the Northeast corner of said Lot 11 thence South 00° 01' 01" West along the East line of said above Parcel of land, a distance of 630.98 feet to the Southeast corner of said above Parcel of land; thence North 89° 59' 10" East, a distance of 915 feet more or less to the East line of said Lot 11; thence North along the East line of said Lot 11, a distance of 631.03 feet, more or less to the Northeast corner of said Lot 11; thence West along the North line of said Lot 11, a distance of 974.62 feet, more or less to the point of beginning.

Said land is also described as Parcel 2 of Parcel Map 1329, according to the Map recorded in Book 6, Page 95, of Official Records.

APN: 310-041-20

2

STATE OF CALIFORNIA
CERTIFICATION OF VITAL RECORD

COUNTY of FRESNO
DEPARTMENT OF PUBLIC HEALTH
FRESNO, CALIFORNIA

3052020022966 — STATE FILE NUMBER

CERTIFICATE OF DEATH
STATE OF CALIFORNIA
USE BLACK INK ONLY / NO ERASURES, WHITEOUTS OR ALTERATIONS
VS-11 (REV. 2/98)

3202010000613 — LOCAL REGISTRATION NUMBER

DECEDENT'S PERSONAL DATA

1. NAME OF DECEDENT–FIRST (Given)	2. MIDDLE	3. LAST (Family)
EMILY	KRISTINA	ROCHA

AKA. ALSO KNOWN AS – Include (a) AKA (FIRST, MIDDLE, LAST)

4. DATE OF BIRTH mm/dd/ccyy	5. AGE Yrs.	IF UNDER ONE YEAR: Months / Days	IF UNDER 24 HOURS: Hours / Minutes	6. SEX
10/29/1939	80			F

8. BIRTH STATE/FOREIGN COUNTRY	10. SOCIAL SECURITY NUMBER	11. EVER IN U.S. ARMED FORCES?	12. MARITAL STATUS/DRP (at Time of Death)	7. DATE OF DEATH mm/dd/ccyy	9. HOUR (24 Hours)
CA	[redacted]1480	YES [X] NO UNK	MARRIED	01/14/2020	0715

13. EDUCATION – Highest Level/Degree (see instruction on back)	14/15. WAS DECEDENT HISPANIC/LATINO/A/SPANISH? (If yes, see worksheet on back)	16. DECEDENT'S RACE – Up to 3 races may be listed (see worksheet on back)
BACHELOR	[X] YES MEXICAN AMERICAN [ ] NO	CAUCASIAN

17. USUAL OCCUPATION – Type of work for most of life. DO NOT USE RETIRED	18. KIND OF BUSINESS OR INDUSTRY (e.g., grocery store, road construction, employment agency, etc.)	19. YEARS IN OCCUPATION
SELF-EMPLOYED	AGRICULTURE	40

USUAL RESIDENCE

20. DECEDENT'S RESIDENCE (Street and number, or location): 6351 E. CLINTON AVE.

21. CITY	22. COUNTY/PROVINCE	23. ZIP CODE	24. YEARS IN COUNTY	25. STATE/FOREIGN COUNTRY
FRESNO	FRESNO	93727	57	CA

INFORMANT

26. INFORMANT'S NAME, RELATIONSHIP	27. INFORMANT'S MAILING ADDRESS (Street and number, or rural route number; city or town, state and zip)
ANTHONY ROCHA, HUSBAND	6351 E. CLINTON AVE., FRESNO, CA 93727

SPOUSE/RDP AND PARENT INFORMATION

28. NAME OF SURVIVING SPOUSE/SRDP–FIRST	29. MIDDLE	30. LAST (BIRTH NAME)	
ANTHONY	JOSEPH	ROCHA	
31. NAME OF FATHER/PARENT–FIRST	**32. MIDDLE**	**33. LAST**	**34. BIRTH STATE**
FRANK	PEREIRA	BAGASO	MA
35. NAME OF MOTHER/PARENT–FIRST	**36. MIDDLE**	**37. LAST (BIRTH NAME)**	**38. BIRTH STATE**
EMMA	THERESE	SIMAS	CA

FUNERAL DIRECTOR/ LOCAL REGISTRAR

39. DISPOSITION DATE mm/dd/ccyy	40. PLACE OF FINAL DISPOSITION
02/08/2020	RES, ANTHONY ROCHA 6351 E. CLINTON AVE., FRESNO, CA 93727

41. TYPE OF DISPOSITION(S)	42. SIGNATURE OF EMBALMER	43. LICENSE NUMBER
CR/RES	▸ ANSON FRIESEN	EMB8707
44. NAME OF FUNERAL ESTABLISHMENT	**45. LICENSE NUMBER**	**46. SIGNATURE OF LOCAL REGISTRAR**
CLOVIS FUNERAL CHAPEL	FD1314	▸ RAIS VOHRA, MD

47. DATE mm/dd/ccyy: 02/06/2020

PLACE OF DEATH

101. PLACE OF DEATH	102. IF HOSPITAL, SPECIFY ONE	103. IF OTHER THAN HOSPITAL, SPECIFY ONE
OWN RESIDENCE - HOSPICE	[ ] IP [ ] ER/OP [ ] DOA	[ ] Hospice [ ] Nursing Home/LTC [X] Decedent's Home [ ] Other

104. COUNTY	105. FACILITY ADDRESS OR LOCATION WHERE FOUND (Street and number, or location)	106. CITY
FRESNO	6351 E. CLINTON AVE.	FRESNO

CAUSE OF DEATH

107. CAUSE OF DEATH — Enter the chain of events — diseases, injuries, or complications — that directly caused death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE.

		Time Interval Between Onset and Death	108. DEATH REPORTED TO CORONER
IMMEDIATE CAUSE (Final disease or condition resulting in death) →	(a) LEFT TEMPORAL INTRACRANIAL HEMORRHAGE	(a1) DYS	[X] YES [ ] NO 20-01-196
Sequentially list conditions, if any, leading to cause on Line A. Enter UNDERLYING CAUSE (disease or injury that initiated the events resulting in death) LAST	(b) LEFT TEMPORAL LOBE HEMATOMA	(b1) DYS	109. AUTOPSY PERFORMED? [ ] YES [X] NO
	(c)	(c1)	110. AUTOPSY PERFORMED? [ ] YES [X] NO
	(d)	(d1)	111. USED IN DETERMINING CAUSE? [ ] YES [ ] NO

112. OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH BUT NOT RESULTING IN THE UNDERLYING CAUSE GIVEN IN 107: NONE

113. WAS OPERATION PERFORMED FOR ANY CONDITION IN ITEM 107 OR 112? (If yes, list type of operation and date.)	113A. IF FEMALE, PREGNANT IN LAST YEAR?
NO	[ ] YES [X] NO [ ] UNK

PHYSICIAN'S CERTIFICATION

114. I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED.	115. SIGNATURE AND TITLE OF CERTIFIER	116. LICENSE NUMBER	117. DATE mm/dd/ccyy
Decedent Attended Since: (A) mm/dd/ccyy: 08/11/2017 — Deceased Last Seen Alive: (B) mm/dd/ccyy: 10/21/2019	▸ LEONID ALEX ZHORNITSKIY M.D.	A86880	01/22/2020

118. TYPED NAME OF ATTENDING PHYSICIAN OR NAME, MAILING ADDRESS, ZIP CODE: LEONID ALEX ZHORNITSKIY M.D.
2071 E HERNDON AVE, CLOVIS, CA 93619

CORONER'S USE ONLY

119. I CERTIFY THAT IN MY OPINION DEATH OCCURRED AT THE HOUR, DATE, AND PLACE STATED FROM THE CAUSES STATED.
MANNER OF DEATH: [ ] Natural [ ] Accident [ ] Homicide [ ] Suicide [ ] Pending Investigation [ ] Could not be determined

120. INJURED AT WORK?	121. INJURY DATE mm/dd/ccyy	122. HOUR (24 Hours)
[ ] YES [ ] NO [ ] UNK		

123. PLACE OF INJURY (e.g., home, construction site, wooded area, etc.)

124. DESCRIBE HOW INJURY OCCURRED (Events which resulted in injury)

125. LOCATION OF INJURY (Street and number, or location, and city, and c/s)

126. SIGNATURE OF CORONER / DEPUTY CORONER	127. DATE mm/dd/ccyy	128. TYPE NAME, TITLE OF CORONER / DEPUTY CORONER
▸		

STATE REGISTRAR	A	B	C	D	E		FAX AUTH.#	CENSUS TRACT
						"010001004424890"		

CERTIFIED COPY OF VITAL RECORDS
STATE OF CALIFORNIA, COUNTY OF FRESNO

This is a true and exact reproduction of the document officially registered and placed on file in the Vital Records Section, Fresno Co. Department of Public Health.

0013141 23

FEB 10 2020
DATE ISSUED

Rais Vohra MD
RAIS VOHRA, M.D.
FRESNO COUNTY LOCAL REGISTRAR

This copy not valid unless prepared on engraved border displaying date, seal and signature of Registrar.

ANY ALTERATION OR ERASURE VOIDS THIS CERTIFICATE

3

DOC #2021-0054690 Page 3 of 3

Appendix D

Phase I ESA User Questionnaire
Rocha Property
6351 E. Clinton Avenue
Fresno, California 93727

Respondent Information
Name: Mr. Brandon De Young Organization: De Young Properties
Date: 10/29/21 Phone: 559-435-0900

Introduction

"In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfield Revitalization Act of 2001 (the 'Brownfields Amendments'), 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 completed"- American Society for Testing and Materials (ASTM) E1527-13 Appendix X3: User Questionnaire

1. Are you aware of any environmental cleanup liens against the subject site that are filed or recorded under federal, tribal, state, or local law?

No

2. Are you aware of any activity use limitations (AULs) such as engineering controls, land use restrictions, or institutional controls that are in place at the subject site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

No

3. As the user of the Phase I Environmental Site Assessment (ESA), do you have any specialized knowledge or experience related to the subject site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject site or an adjacent property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

4. Does the purchase price being paid for the subject site reasonably reflect the fair market value of the subject site? Yes

A. 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 subject site?

_____
_____
_____
_____

5. Are you aware of commonly known or reasonably ascertainable information about the subject site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

A. Do you know the past uses of the subject site? If so, briefly explain.
I only know what was expressed in the Phase I ESA that Krazan performed on the same subject site a few years ago for another developer.

B. Do you know of specific chemicals that are present or once were present at the subject site? If so, briefly explain.
I only know what was expressed in the Phase I ESA that Krazan performed on the same subject site a few years ago for another developer.

C. Do you know of spills or other chemical releases that have taken place at the subject site? If so, briefly explain.
I only know what was expressed in the Phase I ESA that Krazan performed on the same subject site a few years ago for another developer.

D. Do you know of any environmental cleanups that have taken place at the subject site? If so, briefly explain.
I only know what was expressed in the Phase I ESA that Krazan performed on the same subject site a few years ago for another developer.

6. As the user of the Phase I ESA, based on your knowledge and experience related to the subject site, are there any obvious indicators that point to the presence or likely presence of contamination at the subject site?

I only know what was expressed in the Phase I ESA that Krazan performed on the same subject site a few years ago for another developer.

7. What is the reason for preparation of this Phase I ESA? (Property purchase/sale; bank loan; proposed development; etc.)

New home development.

I, the user of this Phase I ESA (or authorized representative of the User), do hereby attest that I have carefully considered the questions herein and have presented answers to the best of my knowledge and ability based upon the Responsibilities of the User as required within ASTM E1527-13 guidance.

Name: Brandon De Young Date: 10/29/21
(Please Print)

Signature_____

Appendix E

October 2, 2018 Project No. 014-18149

Mr. Jeffrey Harris
Wilson Homes
7550 N. Palm Avenue, Suite 102
Fresno, California 93711
jharris@wilsondevelopment.com

RE: Phase I Environmental Site Assessment
Rocha Property
6351 E. Clinton Avenue
APN 310-041-20
Fresno, California 93727

Dear Mr. Harris:

Krazan & Associates, Inc., (Krazan) completed a Phase I Environmental Site Assessment at the referenced site summarized in a report dated October 2, 2018. We appreciate the opportunity to serve your environmental due diligence needs. During the course of this assessment, Krazan identified the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), inaccessibility data gaps, ASTM non-scope issues, and site development issues in conjunction with the subject site:

RECs

- Data available via the Environmental Data Resources (EDR) database report indicates that two fuel underground storage tanks (USTs) are associated with the subject site address of 6351 E. Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record dated June 1, 1988, a 1,800-gallon diesel fuel UST and a 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Mr. Tony Rocha, one of the owners of the subject site, and Mr. Rocha's son, Anthony Rocha, both confirmed that two fuel USTs were previously located approximately 40 feet to the east of the southern-most pole barn in the central-western portion of the subject site. Mr. Anthony Rocha, familiar with the subject site for 30+ years, indicated that the fuel dispensers associated with these two USTs were located directly above the USTs. Mr. Anthony Rocha indicated that the fuel USTs were removed when secondary containment was required, which he stated to be the late-1980s. Mr. Anthony Rocha stated that the property owner removed the USTs and properly disposed the USTs, and he indicated that no obvious sign of contamination was noted. Mr. Anthony Rocha stated that there is no documentation related to the removal of the USTs and he indicated that no soil samples were collected beneath the USTs for analysis.

Consistent with Mr. Anthony Rocha's statements, no records pertaining to the installation, operation, or removal of a UST located at the 6351 or 6361 E. Clinton Avenue addresses are on file with the Fresno County Environmental Health Division (FCEHD), the agency responsible for UST oversight in Fresno County. Furthermore, no record of subsurface soil/groundwater sampling or of site closure activities associated with the diesel fuel and gasoline USTs is on file with the FCEHD. Consequently, the condition of the USTs at removal is not formally documented and the condition of the subsurface of this property proximate to the former USTs at the time of UST removal is unknown. Given the time frame in which the diesel fuel and gasoline USTs were reportedly installed (1974) and the above-referenced information contained in the State Water Resources Control Board database, it appears likely that a steel tank and steel product distribution lines without corrosion protection were located at this property, and the actual condition/structural integrity of these tanks and product distribution lines during the time of operation are unknown. Consequently, given the above-referenced considerations, the potential exists for an unauthorized release(s) of diesel fuel and/or gasoline to have occurred as the result of the historical operation of these two fuel USTs and fuel dispensers on site for an extended period of time circa 1974, and the condition of the subsurface of the subject site proximate to these former fuel USTs/dispensers is unknown.

Krazan recommends that a Limited Subsurface Assessment be conducted in the central-western portion of the subject site at the reported/inferred location of the former diesel fuel and gasoline USTs and fuel dispensers to assess the presence or absence of subsurface soil impacts from petroleum hydrocarbon constituents, including a soil vapor survey.

- During Krazan's September 24, 2018 site reconnaissance, significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. At each of these locations, apparent hazardous materials surface impacts and/or potential subsurface hazardous materials impacts were noted, including: 1) an oil and waste oil storage area located on a concrete pad west of the sheet metal shop/storage building and on unpaved ground adjacent to this concrete pad; 2) beneath herbicide/pesticide and petroleum solvent-based oil surfactant adjuvant containers stored on shelving above asphalt pavement of unknown integrity within a dilapidated storage building located adjacent to the northwest of the northern-most pole-barn; and, 3) beneath apparently non-operational equipment on asphalt pavement of unknown integrity located in the western portion of the southern-most pole-barn. In the two locations at which asphalt staining was noted, the density of materials present and/or the opacity of the surface staining present prevented observation of the surface of the underlying asphaltic material thereby precluding assessment of potential cracking and structural integrity.

  The surficial soil staining observed at the hazardous materials storage area west of the sheet metal shop/storage building and beneath the equipment located at the southern-most pole-barn had an appearance consistent with weathered petroleum hydrocarbons. The staining observed beneath the pesticide/herbicide storage shelving had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent-based oil surfactant adjuvant which was also observed on the shelving. Additionally, an odor consistent with pesticide/herbicide formulations was noted within the dilapidated structure and proximate to the surface staining. In general, the surface staining was limited to an area of approximately 10 to 50 square feet at each of the three above-referenced locations. Although the asphaltic material at the two locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical

extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced area of stained/discolored soil is unknown.

For due diligence relative to the potential impact associated with the petroleum hydrocarbon and/or pesticide/herbicide releases, Krazan recommends that: 1) a Limited Soil Assessment be conducted to assess the extent of subsurface impacts by the constituents of concern (COCs) at the hazardous materials storage area, or confirm the absence of impacts following removal, and 2) the areas where significant staining was observed on asphaltic material be cleared or debris and/or scraped to assess cracking/structural integrity. Krazan further recommends that the impacted soil adjacent to the hazardous materials storage area be characterized by sampling and analysis, removed, placed in drums, and properly disposed off-site.

PAOCs

- Krazan's review of an aerial photograph of the subject site taken in 1937 indicates that the central portion of the subject site was occupied by a rural residence, including a dwelling and at least one small outbuilding in a location consistent with the existing stick-built dwelling, and the central-southern portion of the subject site was occupied by three structures which may have been a second residential area or were outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to have been utilized for agricultural purposes in 1937. The three structures located in the central-southern portion of the subject site were present through 1962; however, all of these structures had been removed from the subject site prior to 1967. Historical uses of the subject site prior to 1937 were not reasonably ascertainable utilizing the standard historical references consulted during this assessment, and it is therefore unknown how long the rural residential/barn/outbuilding structures were located on the subject site prior to 1937.

  Mr. Tony Rocha, the owner of the subject site familiar with the subject site for the past 51 years, stated that USTs were associated with the existing residential area located in the northwestern portion of the subject site, which appears to date back to 1937, and these former USTs were discussed previously. Mr. Rocha indicated that he was not aware of any other USTs being located on the subject site and the structures previously located in the central-southern portion of the subject site predate Mr. Rocha's knowledge of the subject site. Consequently, the status of the structures historically located in the central-southern portion of the subject site relative to the potential presence of USTs is unknown. As indicated previously, no records of USTs for the subject site are on file with the local regulatory agencies; however, USTs on rural or agricultural properties historically have been exempt from requirements for registration with regulatory agencies. Furthermore, Krazan's experience with such properties has shown that it is not uncommon for property owners/operators to install USTs for their convenience, especially in the vicinity of structures, which are undocumented and whose presence would remain unknown in spite of the standard data research conducted in the course of this Phase I ESA. It is therefore possible that subsurface features such as unregistered fuel USTs may exist within the above-referenced central-southern portion of the subject site which remain unknown based on the absence of any regulatory, municipality, and/or interview data, or other evidence indicating their presence or location. Since the central-southern portion of the subject site has been cultivated with various crops since at least 1967, the possibility exists that subsurface features such as USTs would have been discovered at the time of cultivation; however, there was no available data to support this presumption. Consequently, despite an absence of data suggesting their presence, the presence or absence of USTs associated with on-site structures in a historical agricultural setting on the subject site prior to the current owner's familiarity with the subject site is unknown.

For a higher level of due diligence, Krazan recommends that a limited geophysical survey be conducted in the inferred area of the former on-site structures previously located in the central-southern portion of the subject site to assess the presence or absence of subsurface metallic anomalies characteristic of underground storage tanks or other subsurface features of concern.

Inaccessibility Data Gap

- At the time of Krazan's site reconnaissance, the shop/storage building located in the northwestern portion of the subject site was cluttered with densely stored materials, including boxes, packaging materials, vehicle/equipment parts, tires, containers of unknown content, a vehicle, household goods, and maintenance materials, at such density that inspection of all of the materials within this building was not possible nor was inspection of the building foundation beneath the stored materials observable. A portion of this building was utilized as a shop facility and relatively small quantities of hazardous materials, primarily compressed welding gases and lubricants/oils, were observed at the time of the site reconnaissance. *De minimis* surface staining which appeared to be lubricant-related was observed in the western portion of the building, although no evidence was observed that the minor release had migrated beyond the building or penetrated the building foundation. No floor/trench drains or sumps were observed within the building, and Mr. Anthony Rocha stated that none are present. However, a steel-plate covered subsurface mechanics pit was observed in the central southern portion of the shop building which was covered with stored materials and inaccessible at the time of the site reconnaissance. Mr. Anthony Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. He indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Although only *de minimis* surface staining was observed within the shop/storage building, the quantity and density of stored materials precluded thorough assessment of the building foundation and the mechanics pit was inaccessible. Therefore, hazardous materials and/or evidence of a release of hazardous materials or features of environmental concern may be present within the shop/storage building which were unobservable and masked by the storage conditions encountered.

  Additionally, portions of the asphaltic material pavement beneath the two pole-barns were densely packed with vehicles, equipment, materials, lumber, sheet metal, antique farm equipment, and apparently discarded materials at the time of the site reconnaissance. It was not possible to inspect the building foundation in these area of the subject site due to the density of materials and debris present. Therefore, although no obvious evidence of the presence of significant surface staining was noted within these areas of the subject site, the quantity and density of these materials precluded thorough assessment. Consequently, evidence of a release of hazardous materials or features of environmental concern may be present which were unobservable and masked by the conditions encountered. Given the inaccessibility which precluded visual observation of these areas, this data gap represents the potential to affect the findings and conclusions of this report.

  Krazan recommends that the stored goods, discarded materials, and debris be removed from the affected portions of the subject site in order to more effectively assess environmental conditions. Following removal of the above-referenced materials with subsequent follow-up observations in previously inaccessible areas, if surface staining or soil discoloration are revealed, an evaluation of conditions should be made by the environmental professional to determine what, if any, action should be taken relative to assessment/mitigation of the conditions observed which may warrant a Phase II LSA in these areas.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. A copy of the USFWS map showing the referenced designated wetland is included as Appendix A of this report. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted.

- A structure in a location generally consistent with the existing stick-built dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). An asbestos and/or LBP survey and sampling of the on-site structures were not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs and LBP may be present at the subject site. During Krazan's September 24, 2018 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Furthermore, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect ACMs or LBP at this property via renovation or demolition, a comprehensive asbestos and LBP survey designed to determine if the suspect ACM and LBP are regulated materials is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

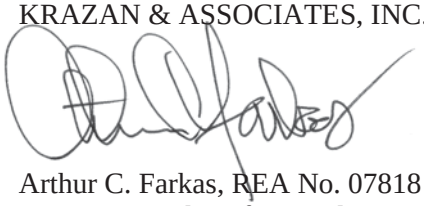
Site Development Issues

- A domestic water well and an agricultural water well were observed during Krazan's September 24, 2018 site reconnaissance. According to Mr. Anthony Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the water wells and septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

Our firm specializes in full-service Site Development Engineering with considerable project management experience. When you are interested in proceeding with the recommended work, Krazan can evaluate your unique circumstances and prepare a Phase II Proposal/Cost Estimate for the additional assessment including the proposed scope of work, budget, and anticipated project schedule.

If you have any questions regarding the information presented in this report, please call me at (559) 348-2200.

Respectfully Submitted,
KRAZAN & ASSOCIATES, INC.



Arthur C. Farkas, REA No. 07818
Environmental Professional

ACF/mlt

PHASE I ENVIRONMENTAL SITE ASSESSMENT ROCHA PROPERTY 6351 E. CLINTON AVENUE APN 310-041-20 FRESNO, CALIFORNIA 93727

Pursuant to ASTM E 1527-13

Project No. 034-17
October 2, 2018

Prepared for:
Mr. Jeffrey Harris
Wilson Homes
7550 N. Palm Avenue, Suite 102
Fresno, California 93711
(559) 224-7550

Prepared by:
Krazan & Associates, Inc.
215 West Dakota Avenue
Clovis, California 93612
(559) 348-2200

Krazan & ASSOCIATES, INC.
SITE DEVELOPMENT ENGINEERS

TABLE OF CONTENTS
Project No. 014-18149

1.0 EXECUTIVE SUMMARY 1

2.0 PURPOSE AND SCOPE OF ASSESSMENT 3

2.1 Purpose 3
2.2 Scope of Work 3

3.0 SITE DESCRIPTION 4

3.1 Geology and Hydrogeology 5

4.0 SITE RECONNAISSANCE 5

4.1 Observations 5
4.2 Utilities 9
4.3 Adjacent Streets and Property Usage 10
4.4 ASTM Non-Scope Considerations 10

5.0 USER-PROVIDED INFORMATION 13

5.1 Title Report and Environmental Lien Search 13
5.2 Phase I Environmental Site Assessment User Questionnaire 13

6.0 SITE USAGE SURVEY 14

6.1 Site History 14
6.2 Interviews 18
6.3 Agricultural Chemicals 19
6.4 Regulatory Agency Interface 19
6.5 Regulatory Agency Lists Review 21

7.0 DISCUSSION OF FINDINGS 28

7.1 Evaluation of Data Gaps/Data Failure 28

8.0 CONCLUSIONS/OPINIONS 30

9.0 RELIANCE 34

10.0 LIMITATIONS 34

11.0 QUALIFICATIONS 35

REFERENCES 37

GLOSSARY OF TERMS 39

Maps
Figure No. 1: Vicinity Map ..... following Glossary of Terms
Figure No. 2: Site Map ..... following Figure No. 1
Figure No. 3: Topographic Map ..... following Figure No. 2

Color Photographs
Photographs ..... following Figure No. 3

TABLE OF CONTENTS (continued)
Project No. 014-18149

Appendices

U.S. Fish & Wildlife Service - National Wetlands Inventory Map ..... A
Phase I ESA User Questionnaire ..... B
Environmental Data Resources, Inc. (EDR) Historical Aerial Photographs C
EDR Sanborn Fire Insurance Map *No Coverage* Letter ..... D
Phase I ESA Owner Questionnaire ..... E
California Regional Water Quality Control Board/State Water Resources Control Board Records ..... F
EDR Radius Map Report ..... G
Professional Resumes ..... H

October 2, 2018 Project No. 014-18149

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ROCHA PROPERTY
6351 E. CLINTON AVENUE
APN 310-041-20
FRESNO, CALIFORNIA 93727

1.0 EXECUTIVE SUMMARY

Krazan & Associates, Inc. (Krazan) has conducted a Phase I Environmental Site Assessment (ESA) of the Rocha Property associated with Fresno County Assessor's Parcel Number (APN) 310-041-20 located at 6351 E. Clinton Avenue in Fresno, California 93727 (subject site). It is incumbent upon the user to read this Phase I ESA report in its entirety. If not otherwise defined within the text of this report, please refer to the Glossary of Terms Section following the References Section for definitions of terms and acronyms utilized within this Phase I ESA report. Krazan conducted the Phase I ESA of the subject site in conformance with the American Society for Testing and Materials (ASTM) E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* This Phase I ESA constitutes all appropriate inquiry (AAI) designed to identify recognized environmental conditions (RECs) in connection with the previous ownership and uses of the subject site as defined by ASTM E 1527-13.

ASTM E 1527-13 Section 1.1.1 *Recognized Environmental Conditions* – In defining a standard of good commercial and customary practice for conducting an environmental site assessment of a parcel of property, the goal of the processes established by this practice is to identify recognized environmental conditions. The term recognized environmental conditions means the 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. *De minimis* conditions are not recognized environmental conditions.

Krazan's findings of this Phase I ESA revealed the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), inaccessibility data gaps, ASTM non-scope issues, and site development issues in conjunction with the subject site:

RECs

- The reported presence of two fuel underground storage tanks (USTs) and associated fuel dispensers in the northwestern portion of the subject site for at least 15 years for which no formal documentation of UST removal and/or subsurface soil sample collection and analysis is available to document the condition of the USTs and the condition of the surrounding subsurface environment at removal.

- The presence of surficial staining on asphalt of unknown integrity and on unpaved ground proximate to a hazardous materials storage area in the northwestern portion of the subject site. Although the asphaltic material at the two locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced area of stained/discolored soil is unknown.

PAOCs

- The potential presence of unregistered USTs in the vicinity of structures previously located in the central-southern portion of the subject site from at least 1937 to at least 1962 in a rural agricultural setting.

Inaccessibility Data Gap

- The shop/storage building and the northern-most pole-barn located in the northwestern portion of the subject site were cluttered with stored/discarded materials at the time of Krazan's site reconnaissance. Consequently, thorough inspection of these portions of the subject site was not possible at the time of the site reconnaissance, thereby introducing the potential that hazardous materials and/or evidence of a release of hazardous materials or features of environmental concern may be present in these areas of the subject site which were unobservable and masked by the density of materials present and/or the housekeeping conditions encountered.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. A copy of the USFWS map showing the referenced designated wetland is included as Appendix A of this report. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted.

- The stick-built residential structure located in the northwestern portion of the subject site appears to have been originally constructed in or before 1937. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). However, based on the apparent date of construction, asbestos-containing materials and/or lead based paint may be present at the subject site.

Site Development Issues

- The reported/observed presence of water wells and septic systems on site which should be removed/abandoned/destroyed if identified and not utilized in the planned redevelopment of the subject site.

Please refer to Section 8.0 Conclusions/Opinions for a detailed discussion of the findings included in this summary.

2.0 PURPOSE AND SCOPE OF ASSESSMENT

2.1 Purpose

According to ASTM E 1527-13, the purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an *environmental site assessment* of a parcel of *commercial real estate* with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and *petroleum products.* As such, this practice is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner,* or *bona fide prospective purchaser* limitation on CERCLA liability (hereinafter, the *landowner liability protections,* or *LLPs*): that is, the practice that constitutes *all appropriate inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

2.2 Scope of Work

The Phase I ESA includes the following scope of work: a) a site reconnaissance of existing on-site conditions and observations of adjacent property uses, b) a review of user-provided documents c) a review of historical aerial photographs, a review of pertinent building permit records, cross-reference directories, historical Sanborn Fire Insurance Maps (SFIMs), and interview(s) with person(s) knowledgeable of the previous and current ownership and uses of the subject site, d) a review of local regulatory agency records, and e) a review of local, state, and federal regulatory agency lists compiled by Environmental Data Resources, Inc. (EDR). The scope of work for this Phase I ESA conforms to ASTM

E 1527-13. Krazan was provided written authorization to conduct the Phase I ESA by Mr. Jeffrey Harris with Wilson Homes on August 28, 2018, in Krazan's May 10, 2018 Proposal/Cost Estimate No. P18-159.

3.0 SITE DESCRIPTION

The subject site is located southwest of E. Clinton Avenue and N. Armstrong Avenue within an unincorporated area of Fresno County, California. The subject site consists of one rectangular-shaped parcel measuring approximately 14.35 acres with the associated Fresno County Assessor's Parcel Number of 310-041-20. The northwestern portion of the subject site is currently developed with a stick-built single-family dwelling, a mobile home, a detached garage, a 3,400-square-foot shop/storage building, two pole-barns, and small wooden storage shed. The subject site is associated with addresses of 6351 and 6361 E. Clinton Avenue. A portion of the existing subject site development (the stick-built single-family dwelling) was apparently originally constructed in or before 1937. The remainder of the northwestern portion of the subject site is developed with paved driveways and walkways, landscaped grounds, and the balance of the subject site is agricultural land.

General property information and property use are summarized in the following Table I. Refer to Figures No. 1 – 3 following the Reference Section.

TABLE I
Subject Site Information Summary

Current Owner:	Tony and Emily Rocha
Assessor's Parcel Number:	310-041-20
Address:	6351 and 6361 E. Clinton Avenue Fresno, California 93727
Historical Address:	None Identified
General Location:	Southwest of E. Clinton Avenue and N. Armstrong Avenue
Acreage:	14.35 acres (approximately)
Existing Use:	Residential and Agricultural
Number of Buildings:	Seven including a small wooden storage shed
Original Construction Date:	Prior to 1937 (stick-built dwelling)
Proposed Use:	Single-family Residential
Topographic Map:	U.S. Geological Survey, 7.5-minute Clovis, California topographic quadrangle map, dated 1964
Topographic Map Location:	Southwestern quarter of Section 27, Township 13 South, Range 21 East, Mount Diablo Baseline and Meridian
Latitude/Longitude:	36.77115° / –119.67486°
Topography:	Relatively flat, approximately 345 feet above mean sea level
Approximate Depth to Groundwater:	75 feet below ground surface (bgs), State of California Department of Water Resources (DWR)**
Regional Groundwater Flow Direction:	Southwest, DWR**

** State of California, Department of Water Resources, *Lines of Equal Elevation of Water in Wells Unconfined Aquifer, San Joaquin Valley, Spring 2010*.

3.1 Geology and Hydrogeology

The subject site is located within the San Joaquin Valley, a broad structural trough bound by the Sierra Nevada and Coast Ranges of California. The San Joaquin Valley, which comprises the southern portion of the Great Valley of California, has been filled with several thousand feet of sedimentary deposits. Sediments in the eastern valley, derived from the erosion of the Sierra Nevada, have been deposited by major to minor west-flowing drainages and their tributaries. Near-surface sediments are dominated by sands and silty sands with lesser silts, minor clays, and gravel. The sedimentary deposits in the region form large coalescing alluvial fans with gentle slopes. Groundwater in the area of the subject site is reported to be first encountered at a depth of approximately 75 feet bgs. The groundwater flow direction in the subject site vicinity is generally reported to be toward the southwest.

4.0 SITE RECONNAISSANCE

A site reconnaissance, which included a visual observation of the subject site and surrounding properties, was conducted by Mr. Bill Vick, Krazan's Environmental Professional, on September 24, 2018. Mr. Anthony Rocha, son of the owner of the subject site, accompanied Krazan's Environmental Professional during the site reconnaissance. The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions, including hazardous substances and petroleum products, in connection with the property (including soils, surface waters, and groundwater).

4.1 Observations

The following Table II summarizes conditions encountered during our site reconnaissance. A discussion of visual observations is presented in the following table. Refer to the Site Map (Figure No. 2) and color photographs following the text for the locations of items discussed in this section of the report.

TABLE II
Summary of Site Reconnaissance

Feature	Observed	Not Observed
Structures (existing)	X	
Evidence of Past Uses (foundations, debris)		X
Hazardous Substances and/or Petroleum Products (including containers)	X	
Aboveground Storage Tanks (ASTs)	X	
Underground Storage Tanks (USTs) or Evidence of USTs		X
Evidence of Underground Pipelines		X
Strong, Pungent, or Noxious Odors		X
Pools of Liquid Likely to be Hazardous Materials or Petroleum Products		X
Drums	X	

TABLE II (continued)
Summary of Site Reconnaissance

Feature	Observed	Not Observed
Unidentified Substance Containers	X	
Potential Polychlorinated Biphenyl (PCB)-Containing Equipment		X
Subsurface Hydraulic Equipment		X
Heating/Ventilation/Air conditioning (HVAC)		X
Stains or Corrosion on Floors, Walls, or Ceilings	X	
Floor Drains, Sumps, or Oil/Water Clarifiers		X
Storm Drains		X
Pits, Ponds, or Lagoons		X
Stained Soil and/or Pavement	X	
Soil Piles	X	
Stressed Vegetation		X
Waste or Wastewater (including stormwater) Discharges to Surface/ Surface Waters		X
Wells (irrigation, domestic, dry, injection, abandoned, monitoring wells)	X	
Septic Systems	X	

The subject site comprises approximately 14.35 acres of residential and agricultural property with the associated Fresno County APN of 310-041-20. Refer to Figure No. 2, Site Map, for locations of the following referenced on-site features:

- The northwestern portion of the subject site was observed to be occupied by a residential area and the remainder of the subject site was observed to be fallow agricultural land. The residential portion of the subject site, covering an area of approximately three acres, was observed to include a stick-built single-family dwelling, a detached garage, a mobile home, a storage shed, a sheet metal shop/storage building with a structural footprint of approximately 3,400 square feet, two pole-barns (one of which includes an adjoining wooden storage structure), a corral with animal shade structures, and landscaped grounds (See Photographs No. 1 - No. 17). The on-site residential area, stick-built single-family home and mobile home, were occupied by Rocha family members at the time of Krazan's site reconnaissance.

- No hazardous materials or hazardous wastes were observed in association with the single-family dwelling, detached garage, small storage shed and mobile home other than small quantities of common cleaning and maintenance materials, including gasoline for landscape maintenance equipment, and propane aboveground storage tanks. Several areas in which these maintenance materials were stored (the detached garage and the small storage shed) were cluttered; however, housekeeping conditions were generally observed to be good. No obvious evidence of an environmental concern or of an unauthorized release of maintenance materials was noted within these portions of the subject site.

- Several cylinders of compressed welding gases and relatively small quantities of common maintenance materials, including paint, adhesives, caulking/patching materials, and lubricants, were observed in the western and northern portions of the 3,400-sqaure-foot shop building (See Photograph No. 18). However, at the time of Krazan's September 24, 2018 site reconnaissance, the shop/storage building was cluttered with densely stored materials, including boxes, packaging materials, vehicle/equipment parts, tires, containers of unknown content, a vehicle, household goods, and maintenance materials, at such density that inspection of all of the materials within this building was not possible nor was inspection of the building foundation beneath the stored

materials (See Photographs No. 8 and No. 9). *De minimis* surface staining which appeared to be lubricant-related was observed adjacent to lubricant containers in the western portion of the building, although no evidence was observed that this apparently minor release had migrated beyond the building or penetrated the building foundation. No floor/trench drains or sumps were observed within the building, and Mr. Anthony Rocha, familiar with the subject site for 30+ years, stated that none are present. However, a steel-plate covered subsurface mechanics pit was observed in the central southern portion of the shop building which was covered with stored materials and inaccessible at the time of the site reconnaissance (See Photograph No. 10). Mr. Anthony Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. He indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Although only *de minimis* surface staining was observed within the shop/storage building, the quantity and density of stored materials precluded thorough assessment of the building foundation and the mechanics pit was inaccessible. Therefore, additional hazardous materials/hazardous waste, evidence of a release of hazardous materials/waste, and/or features of potential environmental concern may be present within the shop/storage building which were masked by the storage and inaccessibility conditions encountered.

Additionally, portions of the asphaltic-type pavement beneath the northern-most pole-barn were densely packed with vehicles, equipment, materials, lumber, sheet metal, antique farm equipment, and apparently discarded materials at the time of the site reconnaissance (See Photographs No. 12 – No. 14). It was not possible to inspect the building foundation in these area of the subject site due to the density of materials and debris present. Therefore, although no obvious evidence of the presence of significant surface staining was noted within these areas of the subject site, the density of these materials precluded thorough assessment. Therefore, evidence of a release of hazardous materials or features of potential environmental concern may be present which were masked by the conditions encountered.

- A canopy-covered oil/hazardous materials storage area was observed on a concrete pad adjacent to the west of the shop/storage building (See Photograph No. 19). An empty plastic AST previously utilized for agricultural chemicals, four partially filled steel drums containing hydraulic oil, motor oil and gear oil (approximately 25 to 55 gallons in capacity), seven 5-gallon containers of hydraulic oil and lubricants, two approximately 20-gallon containers of waste oil, and an air compressor were observed within the oil/hazardous materials storage area (See Photograph No. 20). Significant staining was observed on the concrete pad at the northern end of the storage area immediately proximate to the waste oil containers and the cradle-mounted lubricant drums (See Photograph No. 20). Discolored and stained surface soil consistent with weathered petroleum hydrocarbons was observed adjacent to the west north of the northwestern corner of the concrete pad (See Photograph No. 21).

- Approximately 30 containers of pesticides, herbicides, and petroleum solvent-based adjuvants (1.0-, 2.5- and 5.0-gallon capacity containers) were observed at two locations within a somewhat dilapidated wooden storage structure located adjacent to the west of the northern-most pole-barn, including within a wooden locker and on shelving in the western portion of the structure (See Photograph No. 22) and on shelving in the northeastern portion of the structure (See Photograph No. 23). This structure, at least partially utilized for pesticide/herbicide storage, was cluttered and housekeeping conditions were poor to fair (See Photograph No. 15). Staining was observed beneath the pesticide/herbicide storage shelving in the northern portion of the structure which had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent based oil surfactant adjuvant which was also observed on the shelving (See Photograph No. 24). Additionally, an odor consistent with pesticide/herbicide formulations was noted within the storage structure and proximate to the surface staining.

- Significant surface staining was observed on asphaltic-type pavement of unknown integrity located beneath the southern-most pole-barn. A relatively large area of surface staining was observed beneath equipment located in the western portion of this pole-barn (See Photograph No. 25). The apparent thickness and opacity of the surface staining present at the time of the site reconnaissance prevented observation of the surface of the underlying asphaltic material thereby precluding assessment of potential cracking and structural integrity. The surficial soil staining had an appearance consistent with weathered petroleum hydrocarbons.

- Two propane ASTs were observed in the northwestern portion of the subject site, including a larger one (approximately 1,000 gallons) associated with the single-family dwelling (See Photograph No. 26) and a smaller one (approximately 500 gallons) associated with the mobile home. No evidence on an environmental concern was noted in association with these two propane ASTs.

- Approximately eight end-dump soil piles were observed in the central portion of the subject site adjacent to the south of the mobile home (See Photograph No. 27). Mr. Anthony Rocha stated that he had planned to utilize this soil to create a small motocross track for his children; however, the track had not been constructed. Mr. Rocha stated that the soil was collected at various locations on the subject site, and he stated that no imported soil is associated with the soil piles. Vegetation collected in the process had been burned, and some charred material/ash was visible on the surface of some of the soil piles. However, no odors, soil staining/discoloration, or other obvious evidence of the presence of hazardous materials/waste was noted in association with the end-dump soil piles.

- Subsurface valves were observed in the eastern portion of the subject site (See Photograph No. 28). The presence of these valves suggests that subsurface irrigation piping may be present in the southwestern quarter and eastern half of the subject site. No hazardous materials were observed in association with the subsurface valves.

- An electrically powered domestic water well and a water pressure/storage tank were observed to the southeast of the single-family home (See Photograph No. 29), and an electrically powered agricultural water well was observed in the northeastern corner of the subject site (See Photograph No. 30). Mr. Anthony Rocha stated that the agricultural water well has never been powered by diesel fuel. No hazardous materials were observed in association with the on-site water wells. Mr. Rocha stated that the on-site residential structures are connected to at least two, and possibly three, septic systems located on the subject site.

- The remainder of the subject site not occupied by the previously referenced residential area was observed to be fallow agricultural land (See Photographs No. 32 – No. 35). No evidence of hazardous materials storage or hazardous waste was observed within these portions of the subject site except as previously noted.

- During the visual observations of the subject site, no obvious evidence (vent pipes, fill pipes, dispensers, etc.) of existing USTs was noted within the areas observed. However, Mr. Tony Rocha and Mr. Anthony Rocha both indicated that fuel USTs and associated dispensers were located approximately 40 feet to the east of the southern-most pole barn; however, they indicated that the USTs/dispensers have been removed from the subject site. Please refer to Section 8.0 of this report for a discussion of the former on-site fuel USTs.

- No pole- or pad-mounted electrical transformer were observed on the subject site.

- High-voltage electrical transmission lines were observed trending east-west in the southern portion of the subject site (See Photograph No. 31) and north-south in the eastern portion of the subject site.

4.2 Utilities

Based on Krazan's research, the following Table III summarizes companies/municipalities currently provide utility services to the subject site:

TABLE III
Municipal Service / Utility Providers

Service / Utility	Provider
Electricity	Pacific Gas & Electric (PG&E)
Natural Gas	None – Propane ASTs (2) are located on site
Potable Water	City of Fresno and on-site domestic water well
Sanitary Sewer	On-site septic systems connected to each of the two on-site residential structures

Water / Wells

The municipal potable water purveyor for the subject site is the City of Fresno. The City of Fresno's water quality monitoring is an on-going program with water samples obtained on a regular basis. It is the responsibility of the City of Fresno to provide customers with potable water in compliance with the California State Maximum Contaminant Levels (MCLs) for primary drinking water constituents in water supplied to the public. According to Mr. Anthony Rocha, potable water is supplied to the on-site mobile home by the City of Fresno. However, Mr. Rocha indicated that potable water is supplied to the on-site stick-built dwelling by an on-site domestic well. Additionally, during Krazan's September 24, 2018 site reconnaissance, an agricultural water well was observed in the northeastern portion of the subject site. No information regarding analytical testing or construction specifications of the on-site wells was found during the course of this assessment. If the on-site water wells are not to be used in any planned redevelopment of the subject site, they should be properly destroyed in accordance with State and local guidelines.

Sewer / Septic Systems

According to Mr. Anthony Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

4.3 Adjacent Streets and Property Usage

The following Table IV summarizes the current adjacent roads and adjacent property uses observed during the site reconnaissance.

TABLE IV
Adjacent Streets and Property Use

Direction	Adjacent Street	Adjacent Property Use
North	E. Clinton Avenue	Rural Residential / Vacant Land
South	None	Agricultural Land (Vineyard)
East	N. Armstrong Avenue	Residence / Vacant Lot / Plant Nursery
West	None	Rural Residence

Based on the observed uses of the properties located immediately adjacent to the subject site, it is unlikely that significant quantities of hazardous materials are stored at the adjacent properties.

4.4 ASTM Non-Scope Considerations

According to ASTM E 1527-13, there may be environmental issues or conditions at the subject site that are outside the scope of the Phase I ESA practice (non-scope considerations). Some substances may be present at the subject site in quantities and under conditions that may lead to contamination of the subject site or of nearby properties but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §9601[14]). ASTM non-scope considerations are discussed below.

Asbestos-Containing Materials

Asbestos is a group of naturally occurring mineral fibers that have been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials, vehicle brakes, and heat-resistant fabrics, packaging, gaskets, and coatings. When asbestos-containing materials (ACMs) are damaged or disturbed by repair, remodeling, or demolition activities, microscopic asbestos fibers may become airborne and can be inhaled into the lungs, where they can cause significant health problems.

A structure in a location generally consistent with the existing stick-built dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs). An asbestos survey and sampling of the on-site structures was not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs may be present at the subject site. During Krazan's September 24, 2018 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Prior

to the disturbance of any of the suspect ACMs at this property via demolition, a comprehensive asbestos survey designed to determine if the suspect ACM is a regulated material is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Lead-Based Paint

Although lead-based paint (LBP) was banned in 1978, many building constructed prior to 1978 have paint that contains lead. Lead from paint, chips, and dust can pose serious health hazards if not addressed properly.

A structure in a location generally consistent with the existing stick-built dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain lead-based paint. A LBP survey and sampling of the on-site structures was not included within the scope of this assessment. However, based on the apparent dates of construction, LBP may be present at the subject site. During Krazan's September 24, 2018 site reconnaissance, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect LBP at this property via demolition, a comprehensive LBP survey designed to determine if the suspect LBP is a regulated material is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Radon

Radon is a radioactive gas that is found in certain geologic environments and is formed by the natural breakdown of radium, which is found in the earth's crust. A radon survey was not included within the scope of this investigation; however, the State of California Department of Public Health (CDPH) maintains a statewide database of radon results in designated geographic areas. Radon detection devices are placed in homes throughout the study region to determine geographic regions with elevated radon concentrations. The U.S. EPA has set the safety standard for radon gas in homes to be 4.0 pico Curies per liter (pCi/L).

The US EPA has prepared a map to assist National, State and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action Limit of 4.0 pCi/L. It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the EPA recommends site specific testing in order to

determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures. Review of the EPA Map of Radon Zones places the Property in Zone 2, where average predicted radon levels are between 2.0 and 4.0 pCi/L. Therefore, the available data suggests that the potential for radon to adversely impact the subject site appears to be low.

Environmental Non-Compliance Issues

No obvious material non-compliance issues were identified in connection with the subject site in the process of preparing this report.

Activity and Use Limitations

No activity and use limitations were identified in connection with the subject site in the process of preparing this report.

Wetlands

As defined by the U.S. EPA and the Department of Army, Corps of Engineers, wetlands are "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." Jurisdictional wetlands are regulated under Section 404 of the Clean Water Act (1972, 1977, and 1987, and also the 1985 and 1990 Farm Bills), and are important for protection of aquatic waterfowl and species, water purification, and flood control. According to current Corps of Engineers information, three basic criteria are currently used to define wetlands:

- Wetland hydrology - areas exhibiting surface or near-surface saturation or inundation at some point in time (greater than 12.5 percent of growing season defined on basis of frost-free days) during an average rainfall year.

- Hydrophilic vegetation - frequency of occurrence of wetland indicator plants (plant life growing in water, soil, or substrate that is periodically deficient in oxygen as a result of excessive water content).

- Hydric soil - landscape patterns identified by saturation, flooding, or ponding long enough during the growing season (generally seven days) which develop characteristic color changes in the upper part of the soil as a result of anaerobic conditions.

Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation

canal present when the subject site and surrounding properties were being utilized for agricultural purposes. Please refer to Appendix A in the Table of Contents for a copy of the USFWS Inventory Map showing the referenced designated wetland. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted.

5.0 USER-PROVIDED INFORMATION

A review of user-provided information was conducted in order to help identify pertinent information regarding potential environmental impacts associated with the subject site.

5.1 Title Report and Environmental Lien Search

A Final Title Report or Environmental Lien Search were not prepared by or provided to Krazan during the course of this assessment. The absence of a Final Title Report or Environmental Lien Search represents a data gap.

5.2 Phase I Environmental Site Assessment User Questionnaire

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), 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. The user is asked to provide information or knowledge of the following:

1. Environmental cleanup liens that are filed or recorded against the site.
2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry.
3. Specialized knowledge or experience of the person seeking to qualify for the LLPs.
4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated.
5. Commonly known or *reasonably ascertainable* information about the *property*.
6. The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation.
7. The reason for preparation of this Phase I ESA.

On September 11, 2018, a completed Phase I ESA user questionnaire was received from Mr. Jeffrey Harris with Wilson Homes, the Phase I ESA user. Please refer to Appendix B in the Table of Contents for a copy of the completed Phase I ESA User Questionnaire.

According to the questionnaire responses, Mr. Harris, to the best of his knowledge as the user of this Phase I ESA, was not aware of any environmental cleanup liens and activity or land use limitations which have been filed or recorded against the subject site; and Mr. Harris has no specialized knowledge or experience of the prior nature of the business or chemical utilization on the subject site. Mr. Harris indicated that he has no knowledge of the historical uses of the subject site. Mr. Harris indicated that he did not have knowledge of the past or current presence of specific chemicals or hazardous materials, unauthorized spills or chemical releases or of any environmental cleanups in connection with the subject site. Mr. Harris indicated that he is not aware of any obvious indications pointing to the presence or likely presence of contamination of the subject property. Mr. Harris stated that the purchase price of the subject site reasonably reflects fair market value. Additionally, Mr. Harris indicated that the reason for preparation of this Phase I ESA is related to a proposed property purchase for residential development.

6.0 SITE USAGE SURVEY

The property usage survey included assessing property history, and reviewing local, state, and federal regulatory agency records.

6.1 Site History

A review of historical aerial photographs, a USGS topographic quadrangle map, Fresno County Planning and Development Department records, and reasonably ascertainable cross-reference directories, a search for historical fire insurance maps (HFIMs), and a Phase I ESA interview were utilized to assess the history of the subject site.

Previous Environmental Assessment

No previous environmental assessments of the subject site were provided to Krazan for review during the course of this assessment.

Aerial Photograph Interpretation

Historical aerial photographs dated 1937, 1946, 1950, 1957, 1962, 1967, 1973, 1979, 1984, 1987, 1998, 2006, 2012, and 2018 were reviewed to assess the history of the subject site. These photographs were

obtained from Environmental Data Resources, Inc. (EDR) and via the internet at Microsoft® Research Maps and Google Earth™. The aerial photograph summary is provided in the following Table V. Please refer to Appendix C in the Table of Contents for a copy of the Historical Aerial Photographs.

TABLE V
Summary of Aerial Photograph Review

Year/Scale	Site Use	Site and Adjacent Property Observation
1937 1" = 500'	Residential/ Agricultural	The central portion of the subject site appears to be occupied by a rural residence, including a dwelling and at least one small outbuilding. The central-southern portion of the subject site appears to be occupied by three structures which may be a second residential area or are outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to be utilized for agricultural purposes. The northern, eastern and western adjacent properties appear to be occupied by rural residences and utilized for agricultural purposes. The southern adjacent property appears to be utilized for agricultural purposes.
1946 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1937 aerial photograph.
1950 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1946 aerial photograph except for the development of another small outbuilding in the central-southern portion of the subject site.
1957 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1950 aerial photograph except: 1) the dwelling and outbuilding previously noted in the central portion of the subject site are no longer visible, as this portion of the subject site appears to be vacant land, and 2) a structure has been developed in the central-northern portion of the subject site in a location consistent with the existing stick-built dwelling observed during Krazan's site reconnaissance.
1962 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1957 aerial photograph except only one structure is visible in the central-southern portion of the subject site.
1967 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1962 aerial photograph except no structures are visible in the central-southern portion of the subject site. All of the subject site appears to be cultivated except for the area surrounding the apparent dwelling located in the central-northern portion of the subject site.
1973 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1967 aerial photograph.
1979 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1973 aerial photograph except two barn-type structures, two smaller elongated structures and a small shed have been developed in the western portion of the subject site, and 2) two dwellings have been developed on the western adjoining property. Additionally, the western portion of the subject site does not appear to be cultivated.

TABLE V (continued)
Summary of Aerial Photograph Review

Year/Scale	Site Use	Site and Adjacent Property Observation
1984 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1979 aerial photograph except the two elongated structures previously noted in the western portion of the subject site have been removed and a larger barn-type structure is present in that space.
1987 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1984 aerial photograph.
1998 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1987 aerial photograph except for the addition of an apparent mobile home in the central-northern portion of the subject site in a location consistent with the existing double-wide mobile home. The overall configuration of on-site structures is consistent with that observed during Krazan's site reconnaissance.
2006 1" = 500'	Residential/ Vacant Land	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 1998 aerial photograph except no obvious evidence of cultivation is visible on the subject site.
2012 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 2006 aerial photograph except: 1) the on-site mobile home appears to be a double-wide mobile home, and 2) portions of the subject site appear to be cultivated.
2018 1" = 500'	Residential/ Agricultural	Conditions on the subject site and the adjacent properties appear relatively similar to those noted in the 2012 aerial photograph except the cultivated portion of the subject site appears to be fallow. Additionally, a residential subdivision is visible to the northwest of the subject site.

USGS Topographic Quadrangle Map

Krazan's review of the USGS 7.5-minute Clovis, California topographic quadrangle map dated 1964 indicates that the northwestern portion of the subject site is occupied by a residential-type structure. The remainder of the subject site is depicted as vacant land in 1964. A north-south trending irrigation canal is depicted in the eastern portion of the subject site. Refer to Figure No. 3, Topographic Map, for reference.

Fresno County Planning and Development Department Records

On September 24, 2018, the Fresno County Planning and Development Department (FCPDD) was visited to review building permit records for the subject site addresses of 6351 and 6361 E. Clinton Avenue and/or for the subject site APN of 310-041-20. According to a representative of the Fresno County Planning and Development Department, four building permits are on file with the FCPDD for the subject site. Krazan's review of permits on file with the Fresno County Planning and Development Department for the subject site revealed: 1) a permit issued in 1981 for the addition of a garage, game room and bathroom to an existing dwelling, 2) a permit issued in 1985 for the construction of an ag exempt storage

building, 3) a permit issued in 1995 for the installation of a mobile home, and 4) a permit issued in 2008 for a single-family residence reroof. No permits for items such as underground storage tanks, complete building demolition, or previous structures/features are on file with the Fresno County Planning and Development Department for the subject site.

City Directories

Reasonably ascertainable Haines Criss-Cross Directories (HCCDs) dated 1972 through 2017/2018 were reviewed utilizing approximately five-year intervals at the Fresno County Public Library, Central Branch, located in Fresno, California for the subject site addresses of 6351 and 6361 E. Clinton Avenue and for the commercial property located adjacent to the east of the subject site. A summary of Haines Criss-Cross Directory information is presented in the following Table VI.

TABLE VI
Haines Criss-Cross Directory Summary

Address	Owner/Occupant	Years
Subject Site		
6351 E. Clinton Avenue		
	T. Rocha – Residential Listing	1972, 1976
	T. Rocha – Residential Listing / Eastside Hay Ranch	1980 to 2004/2005
	T. Rocha – Business Listing	2008/2009
	T. Rocha – Residential Listing	2013/2014
	E. Rocha – Residential Listing	2017/2018
6361 E. Clinton Avenue		
	Address Not Listed	1972 to 1995
	T. Rocha – Residential Listing	2000/2001
	Address Not Listed / No Return	2003/2004 to 2013/2014
	D. Lencioni – Residential Listing	
Adjacent Commercial Properties		
East – 2408 N. Armstrong Avenue		
	Address Not Listed	1972 to 2004/2004
	Mt. View Nursery / High Performance Turf Inc.	2008/2009
	High Performance Turf Inc.	2012/2014, 2017/2018

Krazan's review of cross-reference directories indicates that the subject site has been utilized for residential (Rocha family) and/or agricultural purposes (Eastside Hay Ranch) since at least 1972. Information obtained from review of cross-reference directories is consistent with that obtained from other sources during the course of this assessment.

Historical Fire Insurance Maps

Krazan reviews HFIMs to evaluate prior land use of the subject site and the adjacent properties. HFIMs typically exist for cities with populations of 2,000 or more, the coverage dependent on the location of the subject site within the city limits. Krazan contracted with EDR to provide copies of available HFIMs for the subject site and the adjacent properties as far back as 1867. EDR's search of HFIMs revealed no coverage for the subject site and the adjacent properties. Please refer to Appendix D in the Table of Contents for a copy of the EDR HFIM *No Maps Available* Report.

6.2 Interviews

Krazan conducted an interview with one of the owners of the subject site. The interview is designed to provide pertinent information regarding potential environmental impacts associated with the subject site.

Subject Site Owner – An interview was conducted with Mr. Tony Rocha, one of the owners of the subject site, via his completion of an environmental questionnaire. According to questionnaire responses, Mr. Rocha indicated that he has been familiar with the subject site for the past 51 years and he indicated that the subject site has been utilized for residential and farming purposes throughout that time period. Mr. Rocha indicated that six structures are located on the subject site. Mr. Rocha indicated that he is not aware of any previous structures being located on the property and he indicated that the subject site was historically utilized for farming. Mr. Rocha indicated that underground storage tanks, aboveground storage tanks, and agricultural chemicals utilized in farming operations have been located on the subject site. Mr. Rocha indicated that one water well and three septic systems are located on the subject site.

According to Mr. Rocha, to the best of his knowledge, no disposal of hazardous materials; no hazardous materials spills, no environmental cleanups, no on-site treatment and/or discharge of waste (other than domestic waste); no environmental liens, AULs, engineering or institutional controls, no on-site dry wells, sumps, or disposal ponds; no buried materials; no monitoring wells; no imported soil are associated with the subject site. Mr. Tony Rocha indicated that he is not aware of any obvious indications pointing to the presence or likely presence of contamination of the subject property. Mr. Rocha indicated that the reason for preparation of this Phase I ESA is related to a proposed property purchase. Additionally, Mr. Tony Rocha indicated that the purchase price of the subject site reasonably reflects fair market value. Please refer to Appendix E in the Table of Contents for a copy of the Phase I ESA Owner Questionnaire completed by Mr. Rocha.

Previous Subject Site Owners/Occupants – An interview with a previous owner/occupant of the subject site was not reasonably ascertainable. Consequently, information regarding the history and historical uses of the subject site obtained from an interview of a previous owner and/or occupant constitutes a data gap.

6.3 Agricultural Chemicals

Review of historical aerial photographs indicates the subject site was utilized for agricultural purposes from at least 1937 to the present. According to Mr. Tony Rocha, no persistent pesticides/herbicides have been stored on site or applied to the crops grown on site since at least 1967**,** the time in which Mr. Rocha has been associated with the subject site. It is not known if environmentally persistent pesticides/herbicides were historically applied to the crops grown on the subject site prior to 1967; however, generally, Krazan's sampling and analysis of surface soils from properties with similar agricultural histories in the subject site vicinity has typically yielded non-detectable results or very low concentrations for analysis of environmentally persistent pesticides. Therefore, the potential for elevated concentrations of environmentally persistent pesticides/herbicides to exist in the near-surface soils of the subject site which would require regulatory action appears to be low.

6.4 Regulatory Agency Interface

A review of regulatory agency records was conducted to help determine if hazardous materials have been handled, stored, or generated on the subject site and/or the adjacent properties and businesses.

Regulatory records are reviewed based on the following criteria: 1) properties with known soils and/or groundwater releases considered to represent the potential for impact to the subject site that are located within 1,760 feet of the subject site for constituents of concern impacts or 528 feet of the subject site for petroleum hydrocarbon impacts; 2) properties that are adjacent or in proximity to the subject site included within the EDR regulatory database report or noted during the site reconnaissance to possibly handle, store, or generate hazardous materials. Applicable property records are discussed below.

Fresno County Department of Public Health – Environmental Health Division

The Fresno County Department of Public Health, Environmental Health Division (FCEHD) is the lead regulatory agency or Certified Unified Program Agency (CUPA) for hazardous materials handling facilities located in Fresno County. Krazan's review of the FCEHD CUPA and Solid Waste Programs Resource List (CUPA List) dated July 11, 2018, and Krazan's September 13, 2018 review of the FCEHD on-line Environmental Health Document Portal, indicated that no hazardous materials storage, hazardous waste generator, AST, UST, leaking UST (LUST), environmental cleanup site/site mitigation, and/or hazardous materials release incident records are on file with the FCEHD for the subject site addresses of

6351 and 6361 E. Clinton Avenue or for the eastern adjacent nursery which is associated with an address of 2408 N. Armstrong Avenue.

State of California Regional Water Quality Control Board - Geotracker

Krazan's September 13, 2018 review of the State of California Regional Water Quality Control Board (RWQCB) Geotracker database available via the RWQCB Internet Website indicated that no cleanup sites including LUST sites, cleanup program sites, land disposal sites, or military sites are listed for the subject site, the adjacent properties, or properties located within the subject site vicinity. However, data available via the EDR database report includes record of two USTs associated with the subject site address of 6351 E. Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record, dated June 1, 1988, a 1,800-gallon diesel fuel UST and a 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Please refer to Appendix F in the Table of Contents for a copy of the referenced State Water Resources Control Board document.

State of California Department of Toxic Substances Control - Envirostor

Krazan's September 13, 2018 review of the State of California Department of Toxic Substances Control (DTSC) Envirostor database available via the DTSC's Internet Website indicated that no records of cleanup sites including State response sites, voluntary cleanup sites, school cleanup sites, or military or school evaluation sites are listed for the subject site, the adjacent properties, or properties located within 500 feet of the subject site. Additionally, no Federal Superfund – National Priorities List (NPL) sites were determined to be located within a one-mile radius of the subject site.

Fresno County Fire Protection District

The Fresno County Fire Protection District (FCFPD) has primary jurisdiction for fire protection for the subject site. However, based on the location of the subject site near the city-county jurisdictional boundary, the City of Fresno Fire Department also jurisdiction in the immediate vicinity of the subject site. According to a representative of the FCFPD, records of hazardous materials incidents are kept by Fresno County Environmental Health Division. Furthermore, hazardous/flammable incidents have historically been filed according to the date of occurrence and not by the location of occurrence with the FCFPD. Therefore, records of hazardous/flammable releases or incidents were not reasonably ascertainable from the FCFPD.

City of Fresno Fire Department

On September 12, 2018, the City of Fresno Fire Department (CFFD) was contacted via facsimile regarding potential records of hazardous materials storage in aboveground storage tanks or hazardous materials spill incidents subject site. Krazan received a response from the CFFD via facsimile on September 24, 2018 indicating that no records related to the storage of hazardous materials in aboveground tanks or hazardous materials spill incidents are on file with the CFFD for the subject site address of 6351 E. Clinton Avenue.

California Department of Conservation, Division of Oil, Gas and Geothermal Resources - DOMS

Krazan's September 13, 2018 review of the State of California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR) Online Mapping System (DOMS) indicated that no plugged and abandoned or producing oil wells are located on or adjacent to the subject site.

Local Area Tribal Records

No Indian reservations, USTs on Indian land, or LUSTs on Indian land were reported on the subject site, adjacent properties, or vicinity properties in the EDR-provided government database report.

6.5 Regulatory Agency Lists Review

Several agencies have published documents that list businesses or properties which have handled hazardous materials or waste or may have experienced site contamination. The lists consulted in the course of our assessment were compiled by EDR and Krazan and represent reasonably ascertainable current listings. Krazan did not verify the locations and distances of every property listed by EDR. Krazan verified the location and distances of the properties Krazan deemed as having the potential to adversely impact the subject site. The actual location of the listed properties may differ from the EDR listing. The following Table VII for a summary of the listed properties considered to have the potential to impact the subject site located within the specified ASTM Search Radii. The actual distances of the listed properties (which are summarized below) are based on observations during Krazan's site reconnaissance. No EDR-listed unmapped (non-geocoded) sites were determined to be located on or adjacent to the subject site. Please refer to Appendix G in the Table of Contents for a copy of the EDR Radius Map Report.

TALE VII
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	1	NR	1
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

TALE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	0	1	NR	NR	NR	2
HIST UST	0.250	1	0	2	NR	NR	NR	3
CA FID UST	0.250	1	0	1	NR	NR	NR	2
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

TALE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		2	1	NR	NR	NR	3
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

TALE VII (continued)
Listed Properties

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	2	5	1	6	0	17

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

The following facility was listed for the subject site:

Rocha Farm — subject site
6351 E. Clinton Avenue
According to EDR, this subject site facility is listed as a HIST UST and SWEEPS UST site. No hazardous materials records for this facility are on file with the FCEHD for the subject site. Environmental concerns associated with the former on-site USTs are discussed in Section 8.0 of this report.

Hazardous Materials Migration in Soils and/or Groundwater

No sites with reported releases of hazardous materials to the subsurface were reported within a 2,500-foot radius of the subject site. In general, potentially hazardous materials or petroleum products released from facilities located approximately hydraulically upgradient within the subject site vicinity, or in a hydraulically cross-gradient direction in proximity to the site, may have a reasonable potential of migrating to the subject site via groundwater flow. This opinion is based on the assumption that non-vaporous hazardous materials generally do not migrate large distances laterally within the soil, but rather tend to migrate with groundwater in the general direction of groundwater flow. However, the potential for migration of volatile hazardous materials may include movement within soils, groundwater flow or potentially omni-directionally if present in a vaporous state.

Hazardous Materials Migration in Vapor

Hazardous materials or petroleum product vapors which may have the potential to migrate into the subsurface of the subject site may be caused by the release of vapors from contaminated soil or groundwater either on or in the vicinity of the subject site from current or historical uses of the subject site and/or adjacent or vicinity properties. Current or past land uses such as gasoline stations (using petroleum hydrocarbons), dry cleaning establishments (using chlorinated volatile organic compounds), former manufactured gas plant sites (using volatile and semi-volatile organic compounds), and former industrial sites such as those that had vapor degreasing or other parts-cleaning operations (using chlorinated volatile organic compounds) are of particular concern. Constituent of concern vapors are capable of migrating great distances omni-directionally along subsurface conduits such as pipelines, utility lines, sewer and stormwater lines, and building foundations.

The EDR report indicates that a gasoline UST was installed on the subject site in 1974. However, no records associated with the installation, operation, or removal of a gasoline UST are on file with the FCEHD for the subject site addresses of 6351 or 6361 E. Clinton Avenue. Consequently, the structural integrity of the gasoline UST is unknown over the period of time in which it was located on the subject site. The reported presence of a single-walled gasoline UST and steel product piping of unknown

structural integrity on site for an extended period of time (at least 15 years) represents a potential for vapor encroachment in the event a release has occurred. Please refer to Sections 8.0 of this report for a discussion of environmental concerns associated with the reported presence of a gasoline UST on the subject site for at least 15 years.

Based on Krazan's observations and review of State and local regulatory agency records and the EDR regulatory database report, no listings of concern related to potential vapor migration were determined to be associated with the adjacent properties or properties located within the subject site vicinity. Review of vicinity properties listed by EDR as release sites within the applicable search radii suggests that these properties do not represent a significant potential for vapor migration in conjunction with the subject site. The rationale supporting this opinion includes the following:

- None of the reported sites were in close proximity to the subject site.
- Relevant sites had undergone investigation and remediation sufficient to receive regulatory agency closure.
- Sites with reported releases of minor quantities of COCs or COCs of limited volatility impacting soil only were considered of minimal concern.
- The lateral migration of the COCs in groundwater is reported to be limited and COCs were not detected in groundwater samples collected downgradient of the release and several hundred feet upgradient of the subject site
- Sites with reported releases of COCs including volatile organic compounds (VOCs) were either of sufficient distance or hydraulically down- or cross-gradient from the subject site such that they do not appear to represent a significant potential for vapor migration on the subject site.

No engineering control sites, sites with institutional controls, or sites with deed restrictions were listed for the subject site, adjacent sites or vicinity properties in the EDR Report.

7.0 DISCUSSION OF FINDINGS

TABLE VIII
Summary of Conclusions

Apparent Evidence of RECs or PAOCs From:	Not Noted	Noted
Historical Uses		X
Current Uses		X
Adjacent or Vicinity Property Uses	X	

Historical Uses

Evidence of recognized environmental conditions (RECs) and potential areas of concern (PAOCs) have been identified in connection with the historical uses of the subject site which are discussed in the Conclusions/Opinions section of this report.

Current Uses

Based on Krazan's site reconnaissance, contacts with local regulatory agencies, and an interview with the owner of the subject site, there is evidence that recognized environmental conditions exist in connection with the current uses of the subject site. Additionally, potential areas of concern (PAOCs), ASTM non-scope issues, site development issues, and a site inaccessibility data gap were identified in connection with the subject site which are discussed in the Conclusions/Opinions section of this report.

Adjacent or Vicinity Property Uses

Based on Krazan's field observations, review of the EDR government database report, and consultation with local regulatory agencies, there is no evidence that recognized environmental conditions exist in connection with the subject site from adjacent property uses.

7.1 Evaluation of Data Gaps/Data Failure

In accordance with ASTM E 1527-13 guidance, data gaps represent a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice. Data failure represents the failure to achieve the historical research objectives of this practice even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

The following is a summary of data gaps encountered in the process of preparing this report including an observation as to the presumed significance of that data gap to the conclusions of this assessment.

- Inaccessibility (Section 4.0)

  The shop/storage building and the northern-most pole-barn located in the northwestern portion of the subject site were cluttered with stored/discarded materials at the time of Krazan's site reconnaissance. Consequently, thorough inspection of these portions of the subject site was not possible at the time of the site reconnaissance, thereby introducing the potential that hazardous materials and/or evidence of a release of hazardous materials or features of environmental concern may be present in these areas of the subject site which were unobservable and masked by the density of materials present and/or the housekeeping conditions encountered. Given the inaccessibility which precluded visual observation of these areas, this data gap represents the potential to affect the findings and conclusions of this report.

- Final Title Report or Environmental Lien Search (Section 5.1)

  A Final Title Report or Environmental Lien Search were not provided by the Phase I ESA user, therefore a data gap exists. Taken in consideration with the available information obtained in the course of preparing this report in conjunction with professional experience, there is no evidence to suggest that this data gap might alter the conclusions of this assessment. However, the contents of a Final Title Report or Environmental Lien Search are unknown.

- Unknown Date of First Development (Section 6.1)

  Site history prior to 1937 was not reasonably ascertainable based upon review of standard historical sources. Consequently, data failure was encountered relative to date of first development of the subject site. Taken in consideration with the available information obtained in the course of preparing this report in conjunction with professional experience, there is no evidence to suggest that this data gap might alter the conclusions of this assessment. However, the date of first development of the subject site is unknown.

- Absence of Interview with Previous Property Owner/Occupant (Section 6.1)

  A Phase I ESA interview with the previous owner/occupant of the subject site was not reasonably ascertainable. Consequently, information regarding the history and historical uses of the subject site obtained from an interview of a previous owner and/or occupant constitutes a data gap. Taken in consideration with the available information obtained in the course of preparing this report in conjunction with professional experience, there is no evidence to suggest that this data

gap might alter the conclusions of this assessment. However, the contents of an interview with a previous property owner/occupant are unknown.

8.0 CONCLUSIONS/OPINIONS

We have conducted a Phase I ESA of the subject site in conformance with the scope and limitations of the ASTM E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* guidance documents. Any deviations from this practice were previously described in this report. During the course of this assessment, Krazan identified the following evidence of recognized environmental conditions (RECs), potential areas of concern (PAOCs), inaccessibility data gaps, ASTM non-scope issues, and site development issues in conjunction with the subject site:

RECs

- Data available via the Environmental Data Resources (EDR) database report indicates that two fuel underground storage tanks (USTs) are associated with the subject site address of 6351 E. Clinton Avenue which are contained in a historical database originally developed by the California State Water Resources Control Board. According to the State Water Resources Control Board record dated June 1, 1988, a 1,800-gallon diesel fuel UST and a 1,000-gallon gasoline UST were installed at the subject site address in 1974. The two USTs are reported to have been of steel construction with a rubber lining and both were reportedly equipped with underground suction piping. Mr. Tony Rocha, one of the owners of the subject site, and Mr. Rocha's son, Anthony Rocha, both confirmed that two fuel USTs were previously located approximately 40 feet to the east of the southern-most pole barn in the central-western portion of the subject site. Mr. Anthony Rocha, familiar with the subject site for 30+ years, indicated that the fuel dispensers associated with these two USTs were located directly above the USTs. Mr. Anthony Rocha indicated that the fuel USTs were removed when secondary containment was required, which he stated to be the late-1980s. Mr. Anthony Rocha stated that the property owner removed the USTs and properly disposed the USTs, and he indicated that no obvious sign of contamination was noted. Mr. Anthony Rocha stated that there is no documentation related to the removal of the USTs and he indicated that no soil samples were collected beneath the USTs for analysis.

  Consistent with Mr. Anthony Rocha's statements, no records pertaining to the installation, operation, or removal of a UST located at the 6351 or 6361 E. Clinton Avenue addresses are on file with the Fresno County Environmental Health Division (FCEHD), the agency responsible for UST oversight in Fresno County. Furthermore, no record of subsurface soil/groundwater sampling or of site closure activities associated with the diesel fuel and gasoline USTs is on file with the FCEHD. Consequently, the condition of the USTs at removal is not formally documented and the condition of the subsurface of this property proximate to the former USTs at the time of UST removal is unknown. Given the time frame in which the diesel fuel and gasoline USTs were reportedly installed (1974) and the above-referenced information contained in the State Water Resources Control Board database, it appears likely that a steel tank and steel product distribution lines without corrosion protection were located at this property, and the actual condition/structural integrity of these tanks and product distribution lines during the time of

operation are unknown. Consequently, given the above-referenced considerations, the potential exists for an unauthorized release(s) of diesel fuel and/or gasoline to have occurred as the result of the historical operation of these two fuel USTs and fuel dispensers on site for an extended period of time circa 1974, and the condition of the subsurface of the subject site proximate to these former fuel USTs/dispensers is unknown.

- During Krazan's September 24, 2018 site reconnaissance, significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. At each of these locations, apparent hazardous materials surface impacts and/or potential subsurface hazardous materials impacts were noted, including: 1) an oil and waste oil storage area located on a concrete pad west of the sheet metal shop/storage building and on unpaved ground adjacent to this concrete pad; 2) beneath herbicide/pesticide and petroleum solvent-based oil surfactant adjuvant containers stored on shelving above asphalt pavement of unknown integrity within a dilapidated storage building located adjacent to the northwest of the northern-most pole-barn; and, 3) beneath apparently non-operational equipment on asphalt pavement of unknown integrity located in the western portion of the southern-most pole-barn. In the two locations at which asphalt staining was noted, the density of materials present and/or the opacity of the surface staining present prevented observation of the surface of the underlying asphaltic material thereby precluding assessment of potential cracking and structural integrity.

  The surficial soil staining observed at the hazardous materials storage area west of the sheet metal shop/storage building and beneath the equipment located at the southern-most pole-barn had an appearance consistent with weathered petroleum hydrocarbons. The staining observed beneath the pesticide/herbicide storage shelving had an appearance consistent with pesticide/herbicide formulations and/or the petroleum solvent-based oil surfactant adjuvant which was also observed on the shelving. Additionally, an odor consistent with pesticide/herbicide formulations was noted within the dilapidated structure and proximate to the surface staining. In general, the surface staining was limited to an area of approximately 10 to 50 square feet at each of the three above-referenced locations. Although the asphaltic material at the two locations where significant surface staining was observed may prove to have good integrity and thus may prove to be a *de minimis* condition, the actual integrity of this material is currently unknown and therefore the condition of the underlying surface/subsurface soils are unknown. Similarly, although the lateral extent of impacted surface soil at the hazardous materials storage area appears to be limited based upon visual observation of the surface impact, and thus may prove to be *de minimis*, the vertical extent of the release and the condition of surficial/subsurface soils in the vicinity of the above-referenced area of stained/discolored soil is unknown.

PAOCs

- Krazan's review of an aerial photograph of the subject site taken in 1937 indicates that the central portion of the subject site was occupied by a rural residence, including a dwelling and at least one small outbuilding in a location consistent with the existing stick-built dwelling, and the central-southern portion of the subject site was occupied by three structures which may have been a second residential area or were outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to have been utilized for agricultural purposes in 1937. The three structures located in the central-southern portion of the subject site were present through 1962; however, all of these structures had been removed from the subject site prior to 1967. Historical uses of the subject site prior to 1937 were not reasonably ascertainable utilizing the standard historical references consulted during this assessment, and it is therefore unknown how long the rural residential/barn/outbuilding structures were located on the subject site prior to 1937.

Mr. Tony Rocha, the owner of the subject site familiar with the subject site for the past 51 years, stated that USTs were associated with the existing residential area located in the northwestern portion of the subject site, which appears to date back to 1937, and these former USTs were discussed previously. Mr. Rocha indicated that he was not aware of any other USTs being located on the subject site and the structures previously located in the central-southern portion of the subject site predate Mr. Rocha's knowledge of the subject site. Consequently, the status of the structures historically located in the central-southern portion of the subject site relative to the potential presence of USTs is unknown. As indicated previously, no records of USTs for the subject site are on file with the local regulatory agencies; however, USTs on rural or agricultural properties historically have been exempt from requirements for registration with regulatory agencies. Furthermore, Krazan's experience with such properties has shown that it is not uncommon for property owners/operators to install USTs for their convenience, especially in the vicinity of structures, which are undocumented and whose presence would remain unknown in spite of the standard data research conducted in the course of this Phase I ESA. It is therefore possible that subsurface features such as unregistered fuel USTs may exist within the above-referenced central-southern portion of the subject site which remain unknown based on the absence of any regulatory, municipality, and/or interview data, or other evidence indicating their presence or location. Since the central-southern portion of the subject site has been cultivated with various crops since at least 1967, the possibility exists that subsurface features such as USTs would have been discovered at the time of cultivation; however, there was no available data to support this presumption. Consequently, despite an absence of data suggesting their presence, the presence or absence of USTs associated with on-site structures in a historical agricultural setting on the subject site prior to the current owner's familiarity with the subject site is unknown.

Inaccessibility Data Gap

- At the time of Krazan's site reconnaissance, the shop/storage building located in the northwestern portion of the subject site was cluttered with densely stored materials, including boxes, packaging materials, vehicle/equipment parts, tires, containers of unknown content, a vehicle, household goods, and maintenance materials, at such density that inspection of all of the materials within this building was not possible nor was inspection of the building foundation beneath the stored materials observable. A portion of this building was utilized as a shop facility and relatively small quantities of hazardous materials, primarily compressed welding gases and lubricants/oils, were observed at the time of the site reconnaissance. *De minimis* surface staining which appeared to be lubricant-related was observed in the western portion of the building, although no evidence was observed that the minor release had migrated beyond the building or penetrated the building foundation. No floor/trench drains or sumps were observed within the building, and Mr. Anthony Rocha stated that none are present. However, a steel-plate covered subsurface mechanics pit was observed in the central southern portion of the shop building which was covered with stored materials and inaccessible at the time of the site reconnaissance. Mr. Anthony Rocha stated that the pit was too small to be useful and thus had been used less than 10 times. He indicated that the pit is a blind concrete catchment with concrete base and sidewalls which does not contain a drain and does not contain hazardous materials or evidence of hazardous materials spillage. Although only *de minimis* surface staining was observed within the shop/storage building, the quantity and density of stored materials precluded thorough assessment of the building foundation and the mechanics pit was inaccessible. Therefore, hazardous materials and/or evidence of a release of hazardous materials or features of environmental concern may be present within the shop/storage building which were unobservable and masked by the storage conditions encountered.

  Additionally, portions of the asphaltic material pavement beneath the two pole-barns were densely packed with vehicles, equipment, materials, lumber, sheet metal, antique farm equipment, and apparently discarded materials at the time of the site reconnaissance. It was not possible to

inspect the building foundation in these area of the subject site due to the density of materials and debris present. Therefore, although no obvious evidence of the presence of significant surface staining was noted within these areas of the subject site, the quantity and density of these materials precluded thorough assessment. Consequently, evidence of a release of hazardous materials or features of environmental concern may be present which were unobservable and masked by the conditions encountered. Given the inaccessibility which precluded visual observation of these areas, this data gap represents the potential to affect the findings and conclusions of this report.

ASTM Non-scope Issues

- Based on Krazan's reconnaissance of the subject site, evidence was not apparent to suggest that the site contained a wetland. However, according to the U. S. Fish & Wildlife Service (USFWS) National Wetlands Inventory available via the USFWS Internet website, a designated Riverine wetland appears to be located within the eastern portion of the subject site near the property boundary. Based on the location and elongated configuration of the Riverine wetland, it appears to be associated with a former irrigation canal present when the subject site and surrounding properties were being utilized for agricultural purposes. A copy of the USFWS map showing the referenced designated wetland is included as Appendix A of this report. If further assessment of the referenced designated wetland is desired, Krazan recommends that a qualified biologist be consulted.

- A structure in a location generally consistent with the existing stick-built dwelling has been present since at least 1937, and one or more of the existing barn-type structures appear to have been present since the 1970s. It is unknown if the on-site structures contain asbestos-containing materials (ACMs) or lead-based paint (LBP). An asbestos and/or LBP survey and sampling of the on-site structures were not included within the scope of this assessment. However, based on the apparent dates of construction, ACMs and LBP may be present at the subject site. During Krazan's September 24, 2018 site reconnaissance, no damaged building materials or friable suspect ACMs which appeared to be posing a health hazard were noted in the on-site residential structures. Furthermore, no evidence of significant peeling paint was observed in association with the on-site residential structures. Prior to the disturbance of any of the suspect ACMs or LBP at this property via renovation or demolition, a comprehensive asbestos and LBP survey designed to determine if the suspect ACM and LBP are regulated materials is recommended. If such materials are identified and need to be disturbed, repaired, or removed, a licensed abatement contractor should be consulted.

Site Development Issues

- A domestic water well and an agricultural water well were observed during Krazan's September 24, 2018 site reconnaissance. According to Mr. Anthony Rocha, the two residential structures located on the subject site are connected to on-site septic systems. The presence of the septic systems is not anticipated to have adversely impacted the subject site due to their presumed/reported use for domestic purposes only. If the water wells and septic systems are not to be utilized in the planned redevelopment of the subject site, they should be properly abandoned/closed or destroyed in accordance with State and local guidelines.

9.0 RELIANCE

This report was prepared solely for use by Client and should not be provided to any other person or entity without Krazan & Associates' prior written consent. No party other than Client may rely on this report without Krazan & Associates' express prior written consent. Reliance rights for third parties will only be in effect once requested by Client and authorized by Krazan & Associates with authorization granted by way of a Reliance Letter. The Reliance Letter will require that the relying party(ies) agree to be bound to the terms and conditions of the agreement between Client and Krazan & Associates as if originally issued to the relying party(ies), or as so stipulated in the Reliance Letter.

10.0 LIMITATIONS

The site reconnaissance and research of the subject site has been limited in scope. This type of assessment is undertaken with the calculated risk that the presence, full nature, and extent of contamination would not be revealed by visual observation alone. Although a thorough site reconnaissance was conducted in accordance with ASTM Guidelines and employing a professional standard of care, no warranty is given, either expressed or implied, that hazardous material contamination or buried structures, which would not have been disclosed through this investigation, do not exist at the subject site. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used.

The findings presented in this report were based upon field observations during a single property visit, review of available data, and discussions with local regulatory and advisory agencies. Observations describe only the conditions present at the time of this investigation. The data reviewed and observations made are limited to accessible areas and currently available records searched. Krazan cannot guarantee the completeness or accuracy of the regulatory agency records reviewed. Additionally, in evaluating the property, Krazan has relied in good faith upon representations and information provided by individuals noted in the report with respect to present operations and existing property conditions, and the historical uses of the property. It must also be understood that changing circumstances in the property usage, proposed property usage, subject site zoning, and changes in the environmental status of the other nearby properties can alter the validity of conclusions and information contained in this report. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used.

This report is provided for the exclusive use of the client noted on the cover page and shall be subject to the terms and conditions in the applicable contract between the client and Krazan. Any third party use of this report, including use by Client's lender, shall also be subject to the terms and conditions governing the work in the contract between the client and Krazan. The unauthorized use of, reliance on, or release of the information contained in this report without the express written consent of Krazan is strictly prohibited and will be without risk or liability to Krazan.

Conclusions and recommendations contained in this report are based on the evaluation of information made available during the course of this assessment. It is not warranted that such data cannot be superseded by future environmental, legal, geotechnical or technical developments. Consequently, given the possibility for unanticipated hazardous conditions to exist on a subject site which may not have been discovered, this Phase I ESA is not intended as the basis for a buyer or developer of real property to waive their rights of recovery based upon environmental unknowns. Parties that choose to waive rights of recovery prior to site development do so at their own risk.

Parties who seek to rely upon Phase I Environmental Site Assessment reports dated more than 180 days prior to the date of reliance do so at their own risk. This limitation in reliance is based on the potential for physical changes at the site, changes in circumstances, technological and professional advances, and guidance related to the continued viability of Environmental Site Assessment reports, user's responsibilities, and requirements for updating of components of the inquiry as stated in the ASTM Standard E 1527-13.

11.0 QUALIFICATIONS

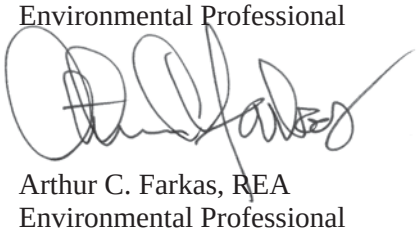
This Phase I ESA was conducted under the supervision or responsible charge of Krazan's undersigned environmental assessor with oversight from the undersigned environmental professional. The work was conducted in accordance with ASTM E 1527-13 guidance, generally accepted industry standards for environmental due diligence in place at the time of the preparation of this report, and Krazan's quality-control policies.

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



William Vick, PhD, REA
Environmental Professional



Arthur C. Farkas, REA
Environmental Professional

WHV/ACF/mlt

REFERENCES

Aerial photographs obtained from Environmental Data Resources, Inc. (EDR), Microsoft® Research Maps, and Google Earth™.

American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment (ESA) Process*, ASTM Designation: E 1527-13.

ASTM, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, ASTM Designation E 2600-10.

City of Fresno Fire Department.

City of Fresno Public Utilities Department.

EDR, Sanborn Fire Insurance Map *No Maps Available* Report.

EDR, Regulatory Database Report.

Fresno County Department of Public Health, Environmental Health Division, Master Hazardous Materials Handling Facilities List (July 2018), and on-line Environmental Health Document Portal.

Fresno County Fire Protection District.

Fresno County Planning and Development Department.

Haines Criss-Cross Directories for the Central San Joaquin Valley, Fresno County Public Library, Central Branch, Fresno, California.

Harris, Mr. Jeffrey, Wilson Homes, Phase I ESA User Questionnaire.

Rocha, Mr. Anthony, Son of the Owner of the Subject Site, Phase I ESA Site Reconnaissance.

Rocha, Mr. Tony, Owner of the Subject Site, Phase I ESA Property Owner Questionnaire.

State of California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR) Maps Website: http://www.conservation.ca.gov/dog/maps/Pages/index_map.aspx

State of California Department of Toxic Substances Control, Envirostor Website: http://www.envirostor.dtsc.ca.gov/public

State of California Regional Water Quality Control Board, Geotracker Website: http://geotracker.swrcb.ca.gov

State of California, Department of Water Resources, *Lines of Equal Elevation of Water in Wells Unconfined Aquifer, San Joaquin Valley, Spring 2010*.

U.S. Environmental Protection Agency (EPA) *Map of Radon Zones*.

REFERENCES (continued)

U.S. Fish & Wildlife Service National Wetland Inventory *Wetlands Mapper:* http://www.fws.gov/wetlands/Data/Mapper.html

U.S. Geological Survey, 7.5-minute Friant, California topographic quadrangle map, dated 1964.

GLOSSARY OF TERMS

Subject Site: The real property being investigated under this Phase I ESA.

Adjacent Properties: Properties which are contiguous with the subject site, or would be contiguous except for a street, road, or other public thoroughfare.

Subject Site Vicinity: Properties located within a 500-foot radius of the subject site.

Environmental Professional: A person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). The EP may be an independent contractor or an employee of the user.

User: The party seeking to use Practice E 1527 to complete an environmental site assessment of the subject site. A user may include, without limitation, a potential purchaser of the subject site, a potential tenant of the subject site, an owner of the subject site, a lender, or a property manager.

Recognized Environmental Condition (REC): In defining a standard of good commercial and customary practice for conducting an environmental site assessment of a parcel of property, the goal of the processes established by this practice is to identify recognized environmental conditions. The term recognized environmental conditions means the 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. *De minimis* conditions are not recognized environmental conditions.

Controlled Recognized Environmental Condition (CREC): A 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 (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). For example, if a leaking underground storage tank has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a CREC. The "control" is represented by the restriction that the property use remain commercial. A condition considered by the environmental professional to be a CREC shall be listed in the findings section of the Phase I ESA report and as an REC in the conclusions section. A condition identified as a CREC does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.

Historical Recognized Environmental Condition (HREC): A 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release an HREC, the environmental professional must determine whether the past release is an REC at the time the Phase I ESA is conducted (for example, if there has been change in the regulatory criteria). If the EP considers the past release to be an REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as an REC.

GLOSSARY OF TERMS (continued)

Potential Area of Concern (PAOC): A term adopted to provide an alternative designation to the REC and HREC for a range of environmental issues related to current subject site uses, historical subject site uses, or from adjacent and/or vicinity property uses. The PAOC is utilized to emphasize full disclosure and provide the User with conclusions and recommendations related to potential environmental issues in connection with the subject site based on Krazan's professional experience in cases where official documentation or other evidence may be absent in order to identify an REC or HREC, thereby aiding the User's considerations of environmental due diligence risk tolerance.

Migrate/migration: For the purposes of this practice, "migrate" and "migration" refer to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. Vapor migration in the subsurface is described in ASTM E 2600-10 guidance; however, nothing in the E 1527-13 practice should be construed to require application of the E 2600-10 standard to achieve compliance with AAI.

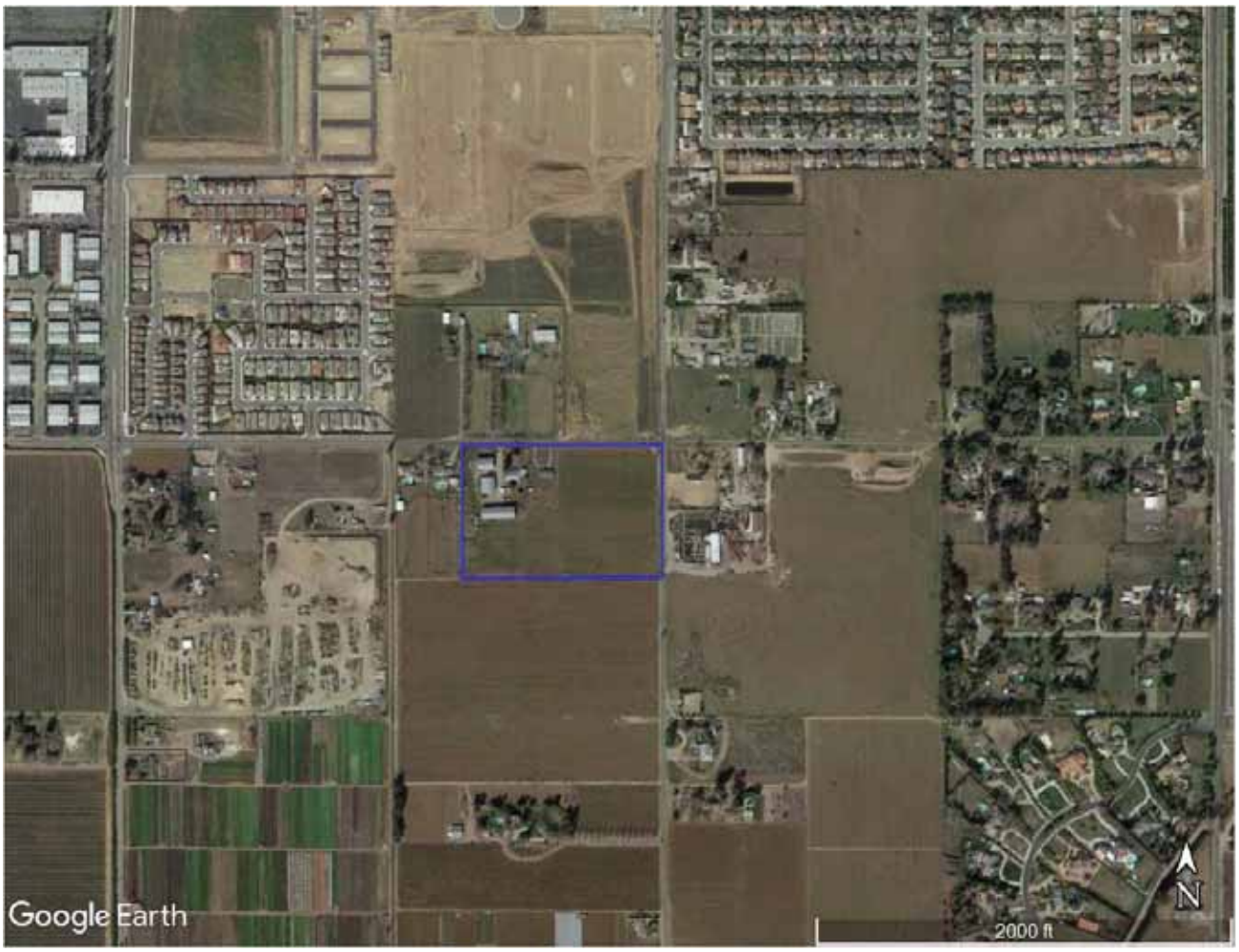
De minimis condition: A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Condition determined to be *de minimis conditions* are not RECS or CRECs.

Data Gap: A lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to the site reconnaissance and interviews.

Data Failure: A failure to achieve the historical research objectives even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

GLOSSARY OF TERMS (continued

AAI	All Appropriate Inquiries
AC	Asphalt Concrete
ACM	Asbestos-Containing Materials
AOC	Area of Concern
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AS	Air Sparging
AUL	Activity & Use Limitations
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CMU	Concrete Masonry Unit
COCs	Constituents of Concern
DEULs	Declaration of Environmental Use Restrictions
DOGGR	Division of Oil, Gas & Geothermal Resources (CA)
DTSC	Department of Toxic Substances Control (CA)
EC	Engineering Control
EDR	Environmental Data Resources, Inc.
EP	Environmental Professional
EPA	United States Environmental Protection Agency
ERP	Emergency Response Plan
ESA	Environmental Site Assessment
ESL	Environmental Screening Level
FOIA	Freedom of Information Act
GPR	Ground Penetrating Radar
HCCD	Haines Criss-Cross Directory
HFIM	Historical Fire Insurance Map
HMBP	Hazardous Materials Business Plan
HREC	Historical Recognized Environmental Condition
HVAC	Heating, Ventilation, Air Conditioning
IC	Institutional Control
LBP	Lead-Based Paint
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LUC	Land Use Control
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
µg/L	Micrograms Per Liter
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MSDS	Material Safety Data Sheet
MTBE	Methyl Tertiary Butyl Ether
MFR	Multi-Family Residential
ND	Nondetectable
NFA	No Further Action (letter)
NPDES	National Pollution Discharge Elimination System
NPL	National Priorities List
O&M	Operations & Maintenance Plan
PAOC	Potential Area of Concern
PCB	Polychlorinated Biphenyl
PCC	Portland Cement Concrete
PCE	Perchloroethylene
PEC	Potential Environmental Concern (TS)
PGD	Polk Guide Directory
PG&E	Pacific Gas & Electric
PHCs	Petroleum Hydrocarbon Constituents
PID	Photoionization Detector
ppb	Parts Per Billion
ppm	Parts Per Million
PRG	Preliminary Remediation Goal
PRP	Potentially Responsible Party
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RP	Responsible Party
RWQCB	Regional Water Quality Control Board (CA)
SBA	Small Business Administration
SFR	Single-Family Residential
SPCC	Spill Prevention Control and Countermeasure Plan
SQG	Small Quantity Generator
SCE	Southern California Edison
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SWRCB	State Water Resources Control Board
TCE	Trichloroethylene
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TS	Transaction Screen
USGS	United States Geological Survey
USFWS	United States Fish & Wildlife Service
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VES	Vapor Encroachment Screening
VOCs	Volatile Organic Compounds



= SUBJECT SITE BOUNDARY

VICINITY MAP **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** NTS	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***With Offices Serving the Western U. S.***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Figure No.** 1	



= SUBJECT SITE BOUNDARY (APPROXIMATE)
= HIGH-VOLATAGE ELECTRICAL TRANSMISSION LINES
= AGRICULTURAL WATER WELL (ELECTRICALLY POWERED)
= PROPANE ABOVEGROUND STORAGE TANKS
= DOMESTIC WATER WELL (ELECTRICALLY POWERED)
= SINGLE-FAMILY HOME (STICK-BUILT)
= MOBILE HOME
= POLE BARN
= ENCLOSED SHEET METAL SHOP/STORAGE BUILDING
= APPROXIMATE LOCATION OF HISTORICAL RESIDENTIAL AREA (1937 – 1962 AERIAL PHOTOGRAPHS)

N

SITE MAP	Scale: NTS	Date: October 2018	Krazan
ROCHA PROPERTY 6351 E. CLINTON AVENUE APN 310-041-20 FRESNO, CALIFORNIA 93727	Drawn By: BV	Approved by: BV	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western U. S.*
	Project No. 014-18149	Figure No. 2	



= SUBJECT SITE BOUNDARY (APPROXIMATE)
= WELDING GASES/MAINTENANCE MATERIALS
= REPORTED APPROXIMATE LOCATION OF TWO FORMER FUEL USTs & FUEL DISPENSERS
= HERBICIDE STORAGE AREA WITH SURFACE STAINING
= PESTICIDE & HERBICIDE STORAGE LOCKER AND SHELVING
= WOODEN STORAGE BLDG
= MECHANICS PIT (APPROXIMATE LOCATION)
= STORAGE (GARAGE/SHED/CARGO CONTAINER)
= SURFACE STAINING BENEATH FORKLIFT/TRACTOR ON ASPHALT-TYPE PAVEMENT
= CANOPY-COVERED CONCRETE PAD UTILIZED FOR HAZARDOUS MATERIALS STORAGE
= SURFACE STAINING – CONCRETE PAD AND POTENTIAL IMPACT TO ADJACENT UNPAVED GROUND

N

SITE MAP	Scale: NTS	Date: October 2018
ROCHA PROPERTY 6351 E. CLINTON AVENUE APN 310-041-20 FRESNO, CALIFORNIA 93727	Drawn By: BV	Approved by: BV
	Project No. 014-18149	Figure No. 2

Krazan
SITE DEVELOPMENT ENGINEERS
With Offices Serving the Western U. S.



7.5-MINUTE SERIES
USGS TOPOGRAPHIC MAP
CLOVIS, CALIFORNIA
DATED 1964

= SUBJECT SITE BOUNDARY

TOPOGRAPHIC MAP **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** NTS	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***With Offices Serving the Western U. S.***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Figure No.** 3	



Photo 1: View of the single-family home located in the northwestern portion of the subject site.



Photo 2: Interior view of the living room in the single-family home located in the northwestern portion of the subject site.



Photo 3: View of the detached garage located in the northwestern portion of the subject site associated with the single-family home.



Photo 4: View of the mobile home located in the northwestern portion of the subject site.



Photo 5: View of the storage shed located in the northwestern portion of the subject site adjacent to the south of the single-family home.



Photo 6: Interior view of the storage shed located in the northwestern portion of the subject site adjacent to the south of the single-family home.



Photo 7: View of the sheet metal shop/storage building located in the northwestern corner of the subject site.



Photo 8: Interior view of the central and western portions of the on-site shop/storage building.



Photo 9: Interior view of the northern portion of the on-site shop/storage building.



Photo 10: View of a plate-covered feature reported to be a mechanics pit located in southern portion of the shop/storage building.



Photo 11: Interior view of a portion of the office build-up located in the eastern portion of the on-site shop/storage building.



Photo 12: View of the northern-most pole-barn and attached storage building located in the northwestern portion of the subject site.



Photo 13: View of the materials/debris located in the central portion of the northern-most pole-barn.



Photo 14: View of the materials/debris located in the southwestern portion of the northern-most pole-barn.



Photo 15: Interior view of the attached storage building located adjacent to the northwest of the northern-most pole-barn which includes pesticides storage areas.



Photo 16: View of the eastern and central portions of the southern-most pole-barn located in the northwestern portion of the subject site.



Photo 17: View of a corral and animal shelters located in the central-western portion of the subject site.



Photo 18: View of compressed welding gases and common maintenance materials located in the western portion of the shop/storage building.



Photo 19: View of the covered concrete pad located adjacent to the west of the shop/storage building which is utilized for oil/hazardous materials storage.



Photo 20: View of the oil drums, waste oil containers, 5-gallon lubricant containers and significant surface staining located in the northern portion of the oil storage area.



Photo 21: View of discolored surface soil located adjacent to the north and west of the northern portion of the oil storage area.



Photo 22: View of a locker located in the storage building adjacent to the northwest of the northern-most pole-barn utilized for storage of pesticides and herbicides.



Photo 23: View of a pesticide, herbicide and petroleum solvent-based adjuvant storage area located in the storage building adjacent to the northern-most pole-barn.



Photo 24: View of a surface staining located beneath the pesticide, herbicide and petroleum solvent-based adjuvant storage area.



Photo 25: View of surface staining located on asphaltic material beneath equipment in the western portion of the southern-most pole barn.



Photo 26: View of the propane AST located in the northwestern portion of the subject site which is associated with the single-family home.



Photo 27: View of eight end-dump soil piles located in the central portion of the subject site to the south of the mobile home.



Photo 28: View of a valve located in the eastern portion of the subject site which is associated with subsurface irrigation piping.



Photo 29: View of the domestic water well located in the northwestern portion of the subject site which is associated with the single-family home.



Photo 30: View of the agricultural water well located in the northeastern portion of the subject site.



Photo 31: View of the high-voltage electrical transmission lines located in the southern portion of the subject site near the property boundary.



Photo 32: Northeastern-facing view of the southwestern and central portions of the subject site.



Photo 33: Western-facing view of the central-southern and southwestern portions of the subject site.



Photo 34: Northern-facing view of the southeastern and central-eastern portions of the subject site.



Photo 35: Western-facing view of the northeastern and central-northern portions of the subject site.



Photo 36: Northwestern-facing view of the rural residences located adjacent to the north of the western portion of the subject site.



Photo 37: Northern-facing view of the vacant land located adjacent to the north of the eastern portion of the subject site.



Photo 38: Northeastern-facing view of the plant nursery located adjacent to the east of the subject site.



Photo 39: Southeastern-facing view of the agricultural land located adjacent to the south of the subject site.



Photo 40: Northwestern-facing view of the rural residence and pasture located adjacent to the west of the subject site.

Appendix A

U.S. Fish and Wildlife Service
National Wetlands Inventory

6351 E. Clinton Avenue - Fresno



September 13, 2018

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix B

Phase I ESA User Questionnaire
Rocha Property
6351 E. Clinton Avenue; APN 310-041-20
Fresno, California 93727

Respondent Information:

Name: Jeff Harris
Date: 9-11-2018

Company: Wilson Homes
Phone: 559/224-7580

Introduction

"In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfield Revitalization Act of 2001 (the 'Brownfields Amendments'), 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 completed"- American Society for Testing and Materials (ASTM) E1527-05 Appendix X3: User Questionnaire

1. Are you aware of any environmental cleanup liens against the subject site that are filed or recorded under federal, tribal, state, or local law? No.

2. Are you aware of any activity use limitations (AULs) such as engineering controls, land use restrictions, or institutional controls that are in place at the subject site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? No.

3. As the user of the Phase I Environmental Site Assessment (ESA), do you have any specialized knowledge or experience related to the subject site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject site or an adjacent property so that you would have specialized knowledge of the chemicals and processes used by this type of business? No.

4. Does the purchase price being paid for the subject site reasonably reflect the fair market value of the subject site? (Yes) No

   A. 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 subject site?

5. Are you aware of commonly known or reasonably ascertainable information about the subject site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

A. Do you know the past uses of the subject site? If so, briefly explain.
No.

B. Do you know of specific chemicals that are present or once were present at the subject site? If so, briefly explain.
No.

C. Do you know of spills or other chemical releases that have taken place at the subject site? If so, briefly explain.
No.

D. Do you know of any environmental cleanups that have taken place at the subject site? If so, briefly explain.
No.

6. As the user of the Phase I ESA, based on your knowledge and experience related to the subject site, are there any obvious indicators that point to the presence or likely presence of contamination at the subject site?
No.

7. What is the reason for preparation of this Phase I ESA? (Property purchase/sale; bank loan; proposed development; etc.)
Property purchase for residential development.

I, the user of this Phase I ESA (or authorized representative of the User), do hereby attest that I have carefully considered the questions herein and have presented answers to the best of my knowledge and ability based upon the Responsibilities of the User as required within ASTM E1527-05 guidance.

Name Jeffrey Harris (Please Print) Date 9-11-2018

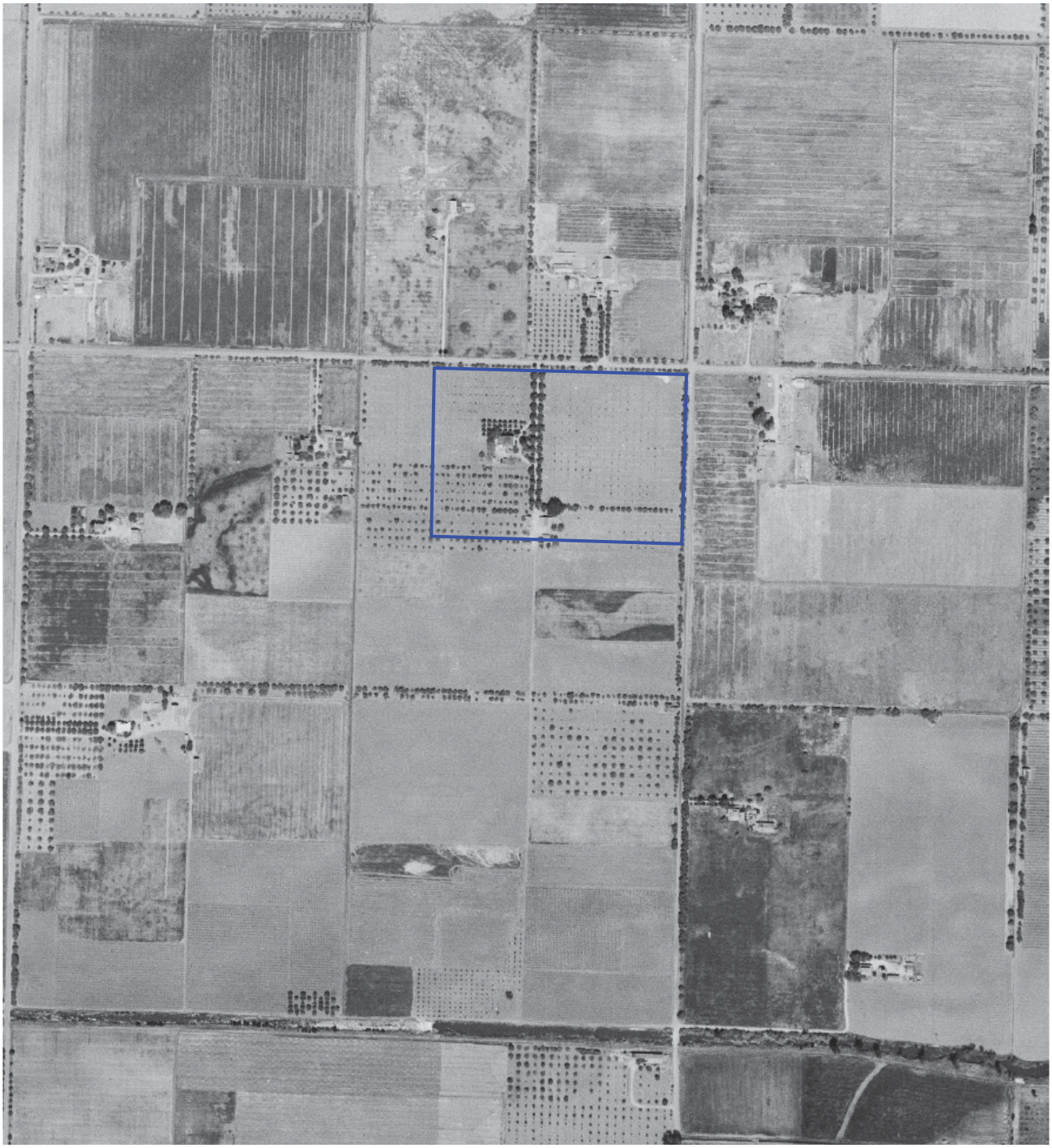
Signature

Appendix C



= **Subject Site Boundary (Approximate)**

1937 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1946 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1950 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1957 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1962 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1967 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1973 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1979 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



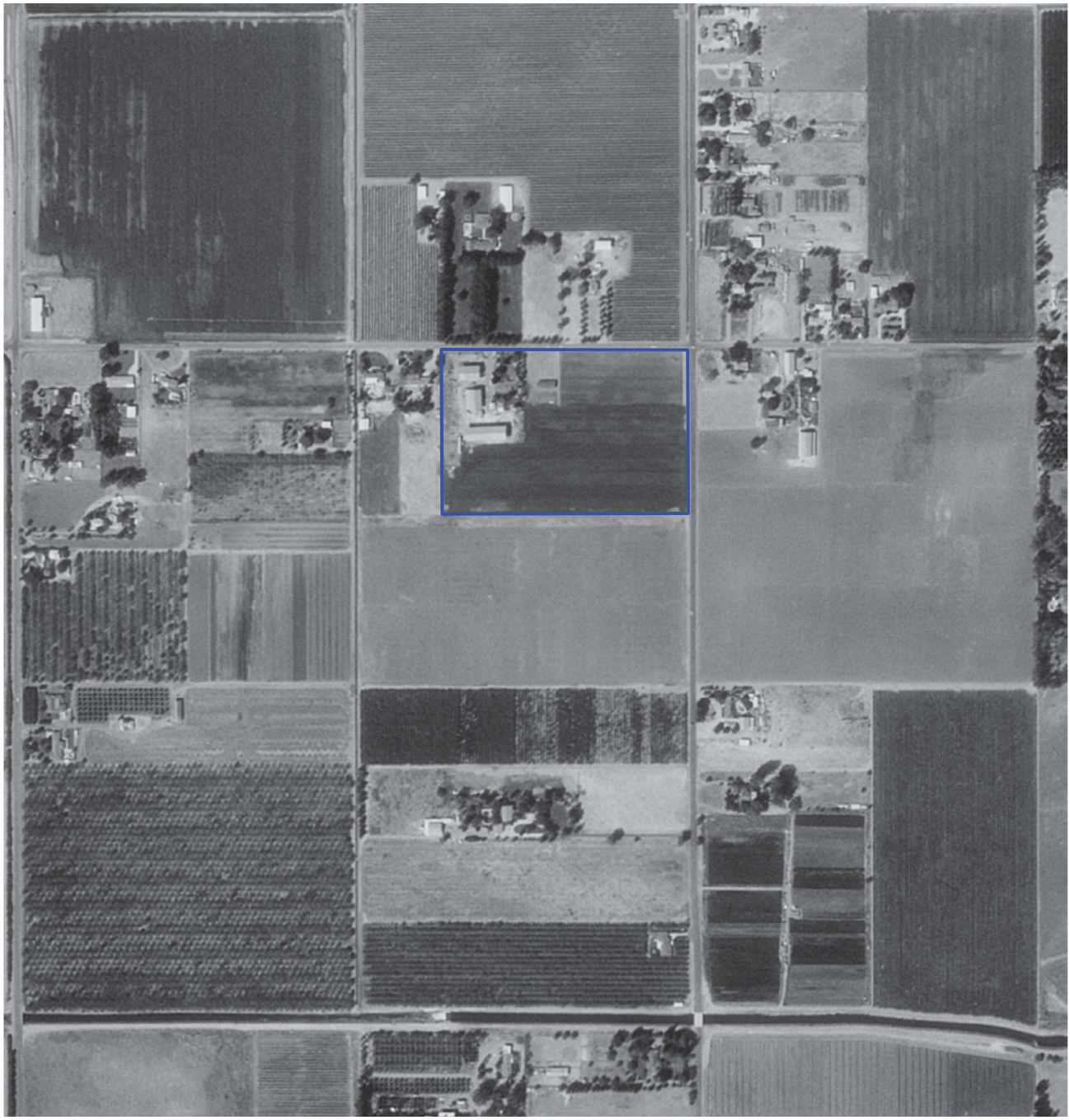
= **Subject Site Boundary (Approximate)**

1984 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1987 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1998 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

2006 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

2012 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

2018 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	

Appendix D

Rocha Property
6351 East Clinton Avenue
Fresno, CA 93727

Inquiry Number: 5420234.5
September 11, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/11/18

Site Name:

Rocha Property
6351 East Clinton Avenue
Fresno, CA 93727
EDR Inquiry # 5420234.5

Client Name:

Krazan & Associates, Inc.
4320 Orange Grove Avenue Suite E
Sacramento, CA 95841
Contact: Bill Vick

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Krazan & Associates, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # DDE5-40E9-9F16

PO # NA

Project 014-18149

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: DDE5-40E9-9F16

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Krazan & Associates, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Appendix E

Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

PHASE I ENVIRONMENTAL SITE ASSESSMENT
PROPERTY OWNER INTERVIEW QUESTIONNAIRE

Date: September 13, 2018 Krazan Project Manager: Bill Vick

Project No: 014-18149 Project Name: Rocha Property

Site Address: 6351 East Clinton Avenue, Fresno, California 93727; APN 310-041-20

Interview With: _____

Telephone No: _____ Fax No: _____

Knowledge of Previous Owner(s) and Phone Number? _____

How are you associated with the subject property? Property Owner / Property Owner's Representative

How long have you been associated with the subject property? 51 years

What is the subject property currently used for? Residence / Farming

Are there structures on the subject property? yes How Many? 6

Do you know of any previous structures on the subject property? No

Do you have knowledge of the presence of underground storage tanks being located on the subject property either historically or currently? yes

Do you have knowledge of the presence of aboveground storage tanks being located on the subject property either historically or currently? yes

Do you have knowledge of the presence of imported soil on the subject property? If so, please indicate the origin/location of the imported soil. No

Do you know of any chemicals, hazardous materials, and/or environmentally persistent pesticides/herbicides being used, stored or discharged on the subject property? yes / do to farming

Do you know of any buried materials such as garbage dumps or burn pits located on the subject property? No

Do you know of any septic systems located on the subject property (current or historical)? (Yes) No
If yes, how many? 3

Do you know of any water wells located on the subject property (current or historical)? (Yes) No
If yes, how many? 1

Do you know of any dry wells located on the subject property (current or historical)? Yes (No)

Do you know of any environmental monitoring wells located on the subject property (current or historical)? Yes (No)

Do you know of any drainage or disposal ponds located on the subject property? No

Is the subject property connected to municipal water and sewer systems? Yes / Water

Do you know of obvious indications pointing to the presence or likely presence of contamination of the subject property?
No

Do you have any concerns about adjacent property usage such as gasoline stations, industrial uses, or USTs/ASTs on adjacent properties? No

Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law?
No

Are you aware of any activity use limitations (AULs) such as engineering controls, land use restrictions, or institutional controls that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law?
No

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjacent property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
No

Does the purchase price being paid for the subject property reasonably reflect the fair market value of the subject property?
(Yes) No

Do you know the past uses of the subject property? If so, briefly explain.
Farming

Do you know of specific chemicals that are present or once were present at the subject property?
If so, briefly explain.
pesticides / Fertilizer / herbicides

Do you know of spills or other chemical releases that have taken place at the subject property?
If so, briefly explain.

No

Do you know of any environmental cleanups that have taken place at the subject property?
If so, briefly explain.

No

What is the reason for preparation of this Phase I ESA? (Property purchase/sale; bank loan; proposed development; etc.)

purchase / sale

Name: Tony J. Rocha (Please Print) Date: 9/24/18

Signature: Tony D Rocha

Appendix F

PAGE 317 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ANTHONY J. ROCHA
6351 E. CLINTON AVE. FRESNO CA 93727

II FACILITY

	MAILING ADDRESS	DEALER/FOREMAN/SUPERVISOR	TYPE OF BUSINESS
ROCHA FARM	TOWNSHIP/RANGE/SECTION	TELEPHONE	NO. OF CONTAINERS
6351 E. CLINTON AVE.			
FRESNO CA 93727	6351 E. CLINTON AVE.		FARMING
	FRESNO CA 93727		
CROSS STREET :		(209) 291-3721	2

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: ROCHA, ANTHONY (209) 291-3721 NIGHT: SAME ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000023424001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 1,800
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : RUBBER
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

PAGE 318 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000023424002 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: CURRIE BROS. /1974
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : TAR TAR OR ASPHT

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12032 REGULAR MOTOR VEHICLE FUEL

Appendix G

Rocha Property
6351 East Clinton Avenue
Fresno, CA 93727

Inquiry Number: 5420234.2s
September 11, 2018

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	51
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2018 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

6351 EAST CLINTON AVENUE
FRESNO, CA 93727

COORDINATES

Latitude (North):	36.7711530 - 36° 46' 16.15''
Longitude (West):	119.6748550 - 119° 40' 29.47''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	261260.0
UTM Y (Meters):	4072621.0
Elevation:	344 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5603160 CLOVIS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140618
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
6351 EAST CLINTON AVENUE
FRESNO, CA 93727

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ROCHA FARM	6351 E CLINTON AVE	SWEEPS UST, CA FID UST		TP
A2	ROCHA FARM	6351 E CLINTON AVE	HIST UST		TP
3	CITY OF FRESNO WELL	2220 N ARMSTRONG AVE	CUPA Listings, CERS	Lower	494, 0.094, SSE
B4	STEVEN DITTO PROPERT	2594 N ARMSTRONG	CUPA Listings	Higher	550, 0.104, NNE
B5	JD ENTERPRISES	2614 N ARMSTRONG	CUPA Listings	Higher	764, 0.145, NNE
C6	RANCH #25	2187 N ARMSTRONG AVE	SWEEPS UST, HIST UST, CA FID UST	Lower	1317, 0.249, SSE
C7	RANCH #25	2187 N ARMSTRONG AVE	HIST UST	Lower	1317, 0.249, SSE
8	CHEVRON FORMER RIO B	STRAND OIL FIELD	CPS-SLIC, CERS	Higher	2503, 0.474, North
9	CLOVIS USD - PROPOSE	SE INTERSECTION OF T	ENVIROSTOR, SCH	Higher	3103, 0.588, East
D10	T.H. AGRICULTURE & N	7183 E MCKINLEY AVE	Delisted NPL, SEMS, RCRA-SQG, US ENG CONTROLS, US...	Higher	4506, 0.853, ESE
D11	THOMPSON HAYWARD AGR	7183 EAST MCKINLEY A	ENVIROSTOR, HIST Cal-Sites, DEED, CA BOND EXP....	Higher	4506, 0.853, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ROCHA FARM 6351 E CLINTON AVE FRESNO, CA 93727	SWEEPS UST Status: A Tank Status: A Comp Number: 23424 CA FID UST Facility Id: 10005850 Status: A	N/A
ROCHA FARM 6351 E CLINTON AVE FRESNO, CA 93727	HIST UST Facility Id: 00000023424	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Solid Waste Information System

State and tribal leaking storage tank lists

LUST ..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
UST ..... Active UST Facilities
AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database

SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register
SCH School Property Evaluation Program
CDL Clandestine Drug Labs
Toxic Pits Toxic Pits Cleanup Act Sites
US CDL National Clandestine Laboratory Register
CERS HAZ WASTE CERS HAZ WASTE

Local Lists of Registered Storage Tanks

CERS TANKS California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS Environmental Liens Listing
LIENS 2 CERCLA Lien Information
DEED Deed Restriction Listing

Records of Emergency Release Reports

HMIRS Hazardous Materials Information Reporting System
CHMIRS California Hazardous Material Incident Report System
LDS Land Disposal Sites Listing
MCS Military Cleanup Sites Listing
SPILLS 90 SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated
FUDS Formerly Used Defense Sites
DOD Department of Defense Sites
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR Financial Assurance Information
EPA WATCH LIST EPA WATCH LIST
2020 COR ACTION 2020 Corrective Action Program List
TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System
SSTS Section 7 Tracking Systems
RMP Risk Management Plans
RAATS RCRA Administrative Action Tracking System
PRP Potentially Responsible Parties
PADS PCB Activity Database System
ICIS Integrated Compliance Information System
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data

COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
ECHO ---- Enforcement & Compliance History Information
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
Cortese ---- "Cortese" Hazardous Waste & Substances Sites List
DRYCLEANERS ---- Cleaner Facilities
EMI ---- Emissions Inventory Data
ENF ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HAZNET ---- Facility and Manifest Data
ICE ---- ICE
HIST CORTESE ---- Hazardous Waste & Substance Site List
HWP ---- EnviroStor Permitted Facilities Listing
HWT ---- Registered Hazardous Waste Transporter Database
MINES ---- Mines Site Location Listing
MWMP ---- Medical Waste Management Program Listing
NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
UIC ---- UIC Listing
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
UIC GEO ---- UIC GEO (GEOTRACKER)
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
CIWQS ---- California Integrated Water Quality System
PROJECT ---- PROJECT (GEOTRACKER)
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
CERS ---- CERS
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal Delisted NPL site list

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 deleted from the NPL where no further response is appropriate.

A review of the Delisted NPL list, as provided by EDR, and dated 07/17/2018 has revealed that there is 1 Delisted NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
T.H. AGRICULTURE & N EPA ID:: CAD009106220 Site ID:: 901128	***7183 E MCKINLEY AVE***	***ESE 1/2 - 1 (0.853 mi.)***	***D10***	***18***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where

environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/30/2018 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLOVIS USD - PROPOSE	***SE INTERSECTION OF T***	***E 1/2 - 1 (0.588 mi.)***	***9***	***15***
Facility Id: 60001940				
Status: No Further Action				
THOMPSON HAYWARD AGR	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D11***	***30***
Facility Id: 10280334				
Status: Certified / Operation & Maintenance				

State and tribal leaking storage tank lists

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there is 1 CPS-SLIC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON FORMER RIO B	***STRAND OIL FIELD***	***N 1/4 - 1/2 (0.474 mi.)***	***8***	***14***
Database: CPS-SLIC, Date of Government Version: 06/11/2018				
Facility Status: Completed - Case Closed				
Global Id: T10000002978				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THOMPSON HAYWARD AGR	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D11***	***30***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C6***	***12***
Status: A Tank Status: A Comp Number: 32783				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C6***	***12***
RANCH #25 Facility Id: 00000032783	2187 N ARMSTRONG AVE	SSE 1/8 - 1/4 (0.249 mi.)	C7	13

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C6***	***12***
Facility Id: 10006413 Status: A				

Other Ascertainable Records

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 05/13/2018 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
T.H. AGRICULTURE & N	***7183 E MCKINLEY AVE***	***ESE 1/2 - 1 (0.853 mi.)***	***D10***	***18***

EXECUTIVE SUMMARY

EPA ID:: CAD009106220

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THOMPSON HAYWARD AGR	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D11***	***30***

CUPA Listings: A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 3 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STEVEN DITTO PROPERT	2594 N ARMSTRONG	NNE 0 - 1/8 (0.104 mi.)	B4	11
Database: CUPA FRESNO, Date of Government Version: 07/11/2018 Facility Id: FA0270541				
JD ENTERPRISES	2614 N ARMSTRONG	NNE 1/8 - 1/4 (0.145 mi.)	B5	12
Database: CUPA FRESNO, Date of Government Version: 07/11/2018 Facility Id: FA0271445				

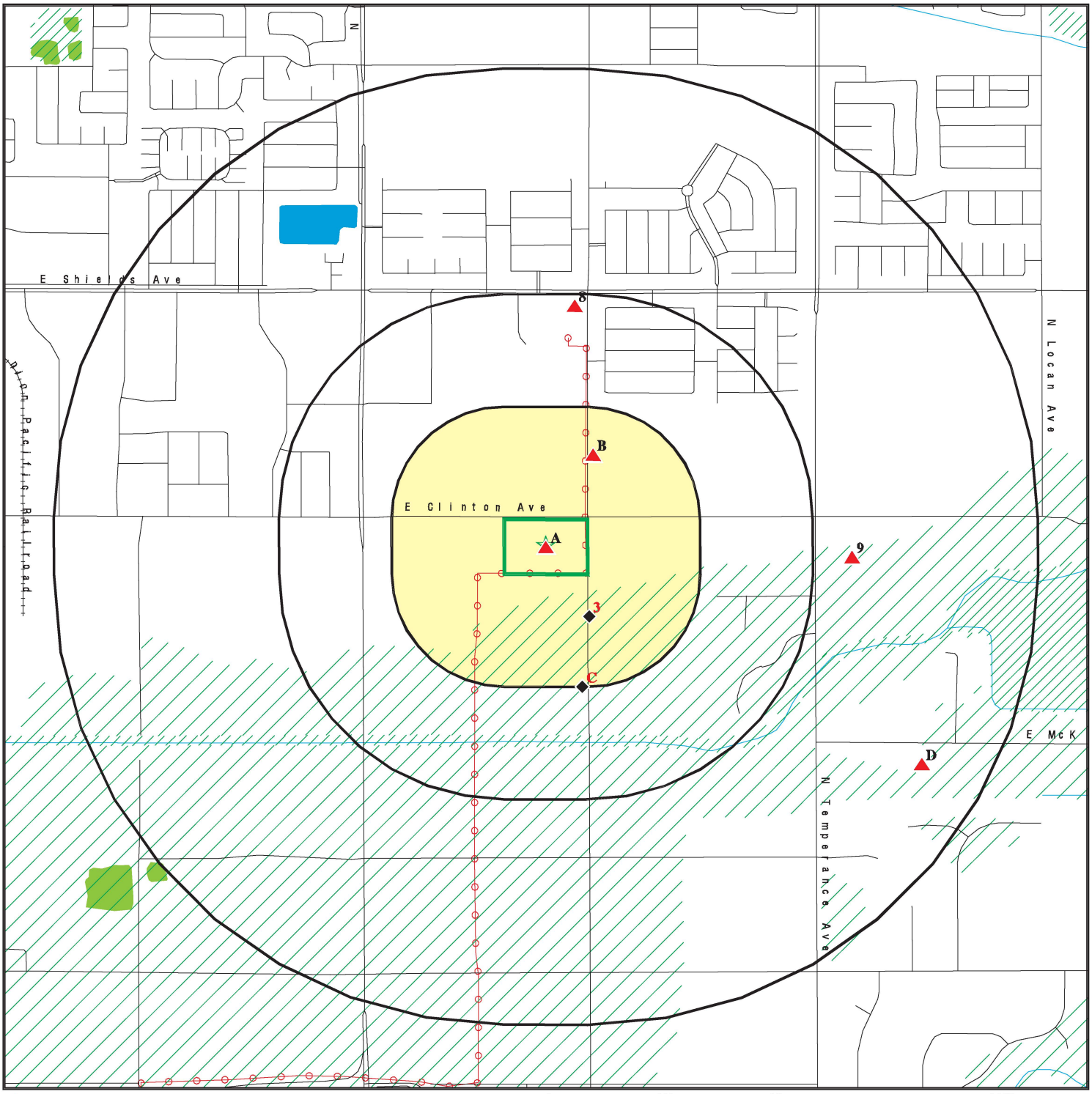
Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF FRESNO WELL	***2220 N ARMSTRONG AVE***	***SSE 0 - 1/8 (0.094 mi.)***	***3***	***9***
Database: CUPA FRESNO, Date of Government Version: 07/11/2018 Facility Id: FA0283561				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
FOWLER-MCKINLEY ELEMENTARY SCHOOL	ENVIROSTOR, SCH
SHIELDS-LOCAN ELEMENTARY SCHOOL	ENVIROSTOR, SCH

OVERVIEW MAP - 5420234.2S



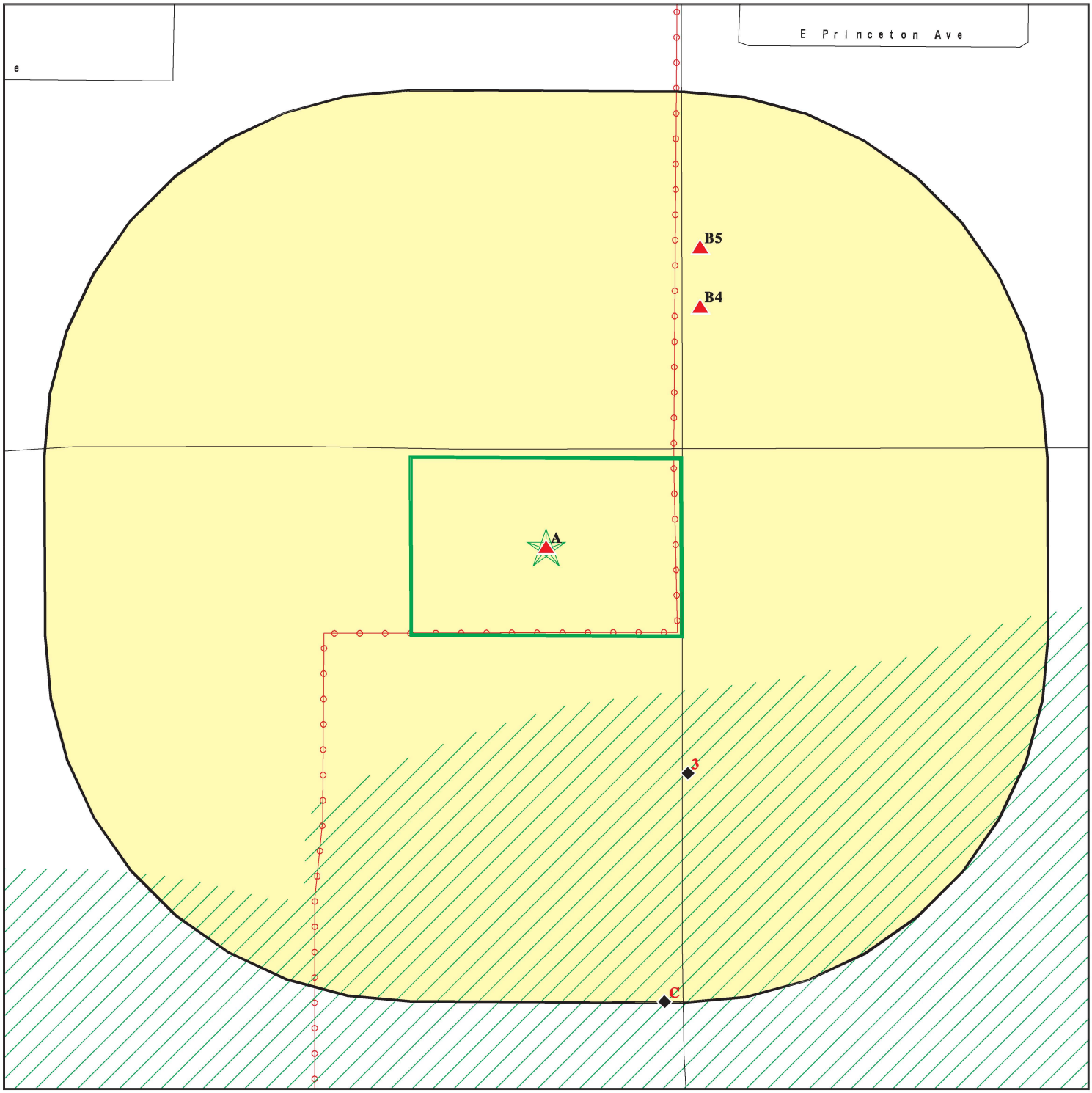
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Rocha Property ADDRESS: 6351 East Clinton Avenue Fresno CA 93727 LAT/LONG: 36.771153 / 119.674855	CLIENT: Krazan & Associates, Inc. CONTACT: Bill Vick INQUIRY #: 5420234.2s DATE: September 11, 2018 3:28 pm

Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5420234.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Rocha Property	CLIENT:	Krazan & Associates, Inc.
ADDRESS:	6351 East Clinton Avenue Fresno CA 93727	CONTACT:	Bill Vick
LAT/LONG:	36.771153 / 119.674855	INQUIRY #:	5420234.2s
		DATE:	September 11, 2018 3:31 pm

Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	1	NR	1
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	0	1	NR	NR	NR	2
HIST UST	0.250	1	0	2	NR	NR	NR	3
CA FID UST	0.250	1	0	1	NR	NR	NR	2
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		2	1	NR	NR	NR	3
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	2	5	1	6	0	17

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

ROCHA FARM
6351 E CLINTON AVE
FRESNO, CA 93727

SWEEPS UST **S101629539**
CA FID UST **N/A**

Site 1 of 2 in cluster A

Actual:
344 ft.

SWEEPS UST:

Status:	Active
Comp Number:	23424
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	10-000-023424-000001
Tank Status:	A
Capacity:	1800
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	2

Status:	Active
Comp Number:	23424
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	10-000-023424-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	10005850
Regulated By:	UTNKA
Regulated ID:	00023424
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2092913721
Mail To:	Not reported
Mailing Address:	6351 E CLINTON AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FRESNO 93727
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

A2
Target
Property

ROCHA FARM
6351 E CLINTON AVE
FRESNO, CA 93727

HIST UST **U001592983**
N/A

Site 2 of 2 in cluster A

Actual:
344 ft.

HIST UST:

File Number:	0002380E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002380E.pdf
Region:	STATE
Facility ID:	00000023424
Facility Type:	Other
Other Type:	FARMING
Contact Name:	Not reported
Telephone:	2092913721
Owner Name:	ANTHONY J. ROCHA
Owner Address:	6351 E. CLINTON AVE.
Owner City,St,Zip:	FRESNO, CA 93727
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1974
Tank Capacity:	00001800
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

3
SSE
< 1/8
0.094 mi.
494 ft.

CITY OF FRESNO WELL 347
2220 N ARMSTRONG AVE
FRESNO, CA 93727

CUPA Listings **S116348293**
CERS **N/A**

Relative:
Lower

Actual:
343 ft.

CUPA FRESNO:

Facility ID:	FA0283561
Cross Street:	CLINTON
APM Number:	31004126
CERS Id:	10694167
SWIS Number:	Not reported
GIS Latitude:	36.767974148100002
GIS Longitude:	-119.672438908
Program Element:	HAZARDOUS MATERIALS HANDLER - WELL SITE

CERS TANKS:

Site ID:	418682
CERS ID:	10694167

CITY OF FRESNO WELL 347 (Continued) **S116348293**

CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 418682
Facility Name: CITY OF FRESNO WELL 347
Env Int Type Code: HMBP
Program ID: 10694167
Coord Name: Not reported
Ref Point Type Desc: Entrance point of a facility or station
Latitude: 36.767974
Longitude: -119.672430

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Fresno County Community Health Department
Entity Title: Not reported
Affiliation Address: 1221 Fulton Mall, Third FloorP.O. Box 11867
Affiliation City: Fresno
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93775
Affiliation Phone: (559) 600-3271

Affiliation Type Desc: Document Preparer
Entity Name: ROBERT LITTLE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ROBERT LITTLE
Entity Title: Not reported
Affiliation Address: 1910 E. UNIVERSITY AVE.
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93703
Affiliation Phone: (559) 621-5355

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1910 E. UNIVERSITY AVE.
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93703
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: ROBERT LITTLE
Entity Title: WATER SYSTEMS SUPERVISOR
Affiliation Address: Not reported

CITY OF FRESNO WELL 347 (Continued) **S116348293**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF FRESNO, WATER DIVISION
Entity Title:	Not reported
Affiliation Address:	1910 E. UNIVERSITY AVE.
Affiliation City:	FRESNO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93703
Affiliation Phone:	(559) 621-5300
Affiliation Type Desc:	Operator
Entity Name:	CITY OF FRESNO / DPU / WATER DIVISION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(559) 621-5300
Affiliation Type Desc:	Parent Corporation
Entity Name:	City of Fresno Well Site Organization
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B4 **STEVEN DITTO PROPERTY** **CUPA Listings** **S104867165**
NNE **2594 N ARMSTRONG** **N/A**
< 1/8 **FRESNO, CA 93727**
0.104 mi.
550 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
347 ft.

CUPA FRESNO:

Facility ID:	FA0270541
Cross Street:	Not reported
APM Number:	31025013
CERS Id:	Not reported
SWIS Number:	Not reported
GIS Latitude:	36.773530242200003
GIS Longitude:	-119.671970652
Program Element:	SUSPECTED UST FACILITY/UNCONFIRMED
Facility ID:	FA0270541
Cross Street:	Not reported
APM Number:	31025013
CERS Id:	Not reported
SWIS Number:	Not reported

STEVEN DITTO PROPERTY (Continued) **S104867165**

GIS Latitude: 36.773530242200003
GIS Longitude: -119.671970652
Program Element: WASTE TIRE FACILITY

B5 **JD ENTERPRISES** **CUPA Listings** **S100864868**
NNE **2614 N ARMSTRONG** **N/A**
1/8-1/4 **FRESNO, CA 93727**
0.145 mi.
764 ft. **Site 2 of 2 in cluster B**

Relative: **Higher**
Actual: **347 ft.**

CUPA FRESNO:
Facility ID: FA0271445
Cross Street: Not reported
APM Number: 31025014
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: 36.774120729499998
GIS Longitude: -119.67197099099999
Program Element: HAZ MAT DISCLOSURE-BELOW REPORTING QUANTITY

Facility ID: FA0271445
Cross Street: Not reported
APM Number: 31025014
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: 36.774120729499998
GIS Longitude: -119.67197099099999
Program Element: HAZARDOUS WASTE GENERATOR (SQG)

C6 **RANCH #25** **SWEEPS UST** **S101621156**
SSE **2187 N ARMSTRONG AVE** **HIST UST** **N/A**
1/8-1/4 **FRESNO, CA 93616** **CA FID UST**
0.249 mi.
1317 ft. **Site 1 of 2 in cluster C**

Relative: **Lower**
Actual: **343 ft.**

SWEEPS UST:
Status: Active
Comp Number: 32783
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 970009
SWRCB Tank Id: 10-000-032783-000001
Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 1

HIST UST:
File Number: 00024365
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024365.pdf

RANCH #25 (Continued) **S101621156**

Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	10006413
Regulated By:	UTNKA
Regulated ID:	00032783
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2094451574
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FRESNO 93616
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

C7 **RANCH #25** **HIST UST** **U001587818**
SSE **2187 N ARMSTRONG AVE** **N/A**
1/8-1/4 **FRESNO, CA 93616**
0.249 mi.
1317 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
343 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000032783
Facility Type:	Other
Other Type:	FARM
Contact Name:	PAUL WILLIAMSON
Telephone:	2094451574
Owner Name:	H. P. METZLER AND SONS

RANCH #25 (Continued) **U001587818**

Owner Address: 5286 SOUTH DEL REY AVENUE
Owner City,St,Zip: DEL REY, CA 93616
Total Tanks: 0001

Tank Num: 001
Container Num: 970009
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Visual

8
North
1/4-1/2
0.474 mi.
2503 ft.

CHEVRON FORMER RIO BRAVO PUMP STATION **CPS-SLIC S110819454**
STRAND OIL FIELD **CERS N/A**
BAKERSFIELD, CA 93311

Relative:
Higher

Actual:
348 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/14/2011
Global Id: T10000002978
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)
Lead Agency Case Number: Not reported
Latitude: 35.3270066986132
Longitude: -119.248149153564
Case Type: Cleanup Program Site
Case Worker: JYH
Local Agency: Not reported
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:
Site ID: 201844
CERS ID: T10000002978
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: JONG HAN - CENTRAL VALLEY RWQCB (REGION 5F)
Entity Title: Not reported
Affiliation Address: 1685 E. Street
Affiliation City: Fresno
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

9
East
1/2-1
0.588 mi.
3103 ft.

CLOVIS USD - PROPOSED K-6 SCHOOL
SE INTERSECTION OF TEMPERANCE & CLINTON AVENUES
FRESNO, CA 93727

ENVIROSTOR SCH | **S114002227 N/A**

Relative: Higher

Actual: 348 ft.

ENVIROSTOR:

Facility ID:	60001940
Status:	No Further Action
Status Date:	04/17/2014
Site Code:	104722
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	20
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jose Luevano
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Assembly:	23
Senate:	08
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	36.77082
Longitude:	-119.6626
APN:	310-052-21, 31005221
Past Use:	AGRICULTURAL - ROW CROPS, AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic Chlordane DDD DDE DDT Lead Arsenic Chlordane DDD DDE DDT Lead Polychlorinated biphenyls (PCBs
Confirmed COC:	No Contaminants found 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO No Contaminants found 30018-NO
Potential Description:	NMA, SOIL, SOIL, UE
Alias Name:	310-052-21
Alias Type:	APN
Alias Name:	31005221
Alias Type:	APN
Alias Name:	104722
Alias Type:	Project Code (Site Code)
Alias Name:	60001940
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/12/2013
Comments:	EOA signed by both parties.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	01/21/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/03/2014
Comments: PEA Workplan implemented. DTSC PM on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/19/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60001940
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 20
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Luevano
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 104722
Assembly: 23
Senate: 08
Special Program Status: Not reported
Status: No Further Action
Status Date: 04/17/2014
Restricted Use: NO
Funding: School District
Latitude: 36.77082
Longitude: -119.6626
APN: 310-052-21, 31005221
Past Use: AGRICULTURAL - ROW CROPS, AGRICULTURAL - ROW CROPS

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Potential COC: Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Polychlorinated biphenyls (PCBs
Confirmed COC: No Contaminants found, , 30001-NO, 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, No Contaminants found, 30018-NO
Potential Description: NMA, SOIL, SOIL, UE
Alias Name: 310-052-21
Alias Type: APN
Alias Name: 31005221
Alias Type: APN
Alias Name: 104722
Alias Type: Project Code (Site Code)
Alias Name: 60001940
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/12/2013
Comments: EOA signed by both parties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/03/2014
Comments: PEA Workplan implemented. DTSC PM on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/19/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

D10
ESE
1/2-1
0.853 mi.
4506 ft.

Relative: Higher

Actual: 349 ft.

T.H. AGRICULTURE & NUTRITION CO.
7183 E MCKINLEY AVE
FRESNO, CA 93727

Site 1 of 2 in cluster D

Delisted NPL **1000146275**
SEMS **CAD009106220**
RCRA-SQG
US ENG CONTROLS
US INST CONTROL
CPS-SLIC
ROD
PRP
CUPA Listings
CERS

Delisted NPL:
EPA ID: CAD009106220
Site ID: 901128
EPA Region: 9
Federal: No
Deleted Date: 2006-08-21 00:00:00
Latitude: 36.764728
Longitude: -119.660501

Category Details:
NPL Status: Deleted from the Final NPL
Category Description: Depth To Aquifer-> 25 And <= 50 Feet
Category Value: 30

NPL Status: Deleted from the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 500

Site Details:
Site Name: T.H. AGRICULTURE & NUTRITION CO.
Site Status: Deleted
Site Zip: 93727
Site City: FRESNO
Site State: CA
Federal Site: No
Site County: FRESNO
EPA Region: 09
Date Proposed: 10/15/84
Date Deleted: 8/21/2006
Date Finalized: 06/10/86

Substance Details:
NPL Status: Deleted from the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Deleted from the Final NPL
Substance ID: P037
Substance: DIELDRIN

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

CAS #: 60-57-1
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Deleted from the Final NPL
Substance ID: P051
Substance: ENDRIN
CAS #: 72-20-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Deleted from the Final NPL
Substance ID: P059
Substance: HEPTACHLOR
CAS #: 76-44-8
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Deleted from the Final NPL
Substance ID: U028
Substance: BIS(2-ETHYLHEXYL)PHTHALATE
CAS #: 117-81-7
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Deleted from the Final NPL
Substance ID: U129
Substance: LINDANE
CAS #: 58-89-9
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Deleted from the Final NPL
Substance ID: U233
Substance: TP ACID (SILVEX), 2,4,5-
CAS #: 93-72-1
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Deleted from the Final NPL
Substance ID: W012
Substance: PESTICIDES
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

Summary Details:

Conditions at proposal October 15, 1984): T. H. Agriculture and Nutrition Co. operated a pesticide-formulating facility on about 2.5 acres near Fresno, Fresno County, California, from 1962 until 1981. Other companies had formulated pesticides on the site from 1950 to 1962. During the 1950s and l960s, on-site landfills were used for disposal of empty containers, facility trash, and other wastes generated from the pesticide-formulation operations, including pesticide-laden clays from cleaning of equipment. This site was first proposed for listing under the name Thompson-Hayward Chemical Co. Thompson-Hayward Chemical Co. changed its name to T. H. Agriculture and Nutrition Co. in l98l. Sampling conductedby the company and the

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

California Department of Health Services detected pesticides in soil and ground water at the site. A Cleanup and Abatement Order issued by the California Regional Water Quality Control Board has directed the company to excavate contaminated soil and determine the extent of ground water contamination. In response, the company has excavated l4,000 cubic yards of contaminated soil, and has undertaken sampling to characteri e soil contamination, monitor ground water, and characteri e the hydrology beneath the site. Status June 10, 1986): The company has conducted some initial ground water studies on-site and has proposed an on-site ground water extraction and treatment system. The California Department of Health Services has ordered the company to conduct a remedial investigation/feasibility study and to develop an alternative drinking water supply program.

Site Status Details:

NPL Status:	Final
Proposed Date:	10/15/1984
Final Date:	06/10/1986
Deleted Date:	Not reported

Narratives Details:

NPL Name:	T.H. AGRICULTURE & NUTRITION CO.
City:	FRESNO
State:	CA

SEMS:

Site ID:	901128
EPA ID:	CAD009106220
Cong District:	Not reported
FIPS Code:	6019
Latitude:	36.764727999999998
Longitude:	-119.660501
FF:	N
NPL:	Deleted from the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	2004-06-24 00:00:00
Finish Date:	6/24/2004
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

FF:	N
OU:	0
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-04-01 00:00:00
Finish Date:	4/1/1984
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 00:00:00
Finish Date:	10/15/1984
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1986-06-10 00:00:00
Finish Date:	6/10/1986
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1990-09-27 00:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	2
Start Date:	1991-12-20 00:00:00
Finish Date:	12/20/1991
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 00:00:00
Finish Date:	4/1/1984
Qual:	H
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1990-08-01 00:00:00
Finish Date:	8/1/1990
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	FE
Action Name:	5 YEAR
SEQ:	2
Start Date:	2013-09-26 00:00:00
Finish Date:	9/26/2013
Qual:	Not reported
Current Action Lead:	EPA Perf

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	TU
Action Name:	NOID
SEQ:	1
Start Date:	2006-07-11 00:00:00
Finish Date:	7/11/2006
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-08-10 00:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	FE
Action Name:	5 YEAR
SEQ:	1
Start Date:	2007-04-03 00:00:00
Finish Date:	9/30/2008
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	ND
Action Name:	DELETION
SEQ:	1
Start Date:	2006-07-11 00:00:00
Finish Date:	8/21/2006

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	CQ
Action Name:	CLSOUT R
SEQ:	1
Start Date:	2005-09-29 00:00:00
Finish Date:	9/29/2005
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	0
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-04-01 00:00:00
Finish Date:	4/1/1984
Qual:	H
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	1
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	2002-06-28 00:00:00
Finish Date:	9/29/2004
Qual:	FR
Current Action Lead:	St Ovrsght
Region:	9
Site ID:	901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	1
Action Code:	RO
Action Name:	ROD

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

SEQ: 1
Start Date: 1999-06-20 00:00:00
Finish Date: 6/20/1999
Qual: R
Current Action Lead: St Ovrsght

Region: 9
Site ID: 901128
EPA ID: CAD009106220
Site Name: T.H. AGRICULTURE & NUTRITION CO.
NPL: D
FF: N
OU: 0
Action Code: EL
Action Name: PRP CR
SEQ: 1
Start Date: 1985-09-03 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: St Ovrsght

Region: 9
Site ID: 901128
EPA ID: CAD009106220
Site Name: T.H. AGRICULTURE & NUTRITION CO.
NPL: D
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-07-01 00:00:00
Finish Date: 7/1/1980
Qual: Not reported
Current Action Lead: St Perf

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: TH AGRICULTURE & NUTRITION CO INC
Facility address: 7183 E MC KINLEY AVE
FRESNO, CA 93727
EPA ID: CAD009106220
Mailing address: PO BOX 7797
FRESNO, CA 93747
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/29/1980
Site name: TH AGRICULTURE & NUTRITION CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

US ENG CONTROLS:
Action ID: 001
Action Name: RECORD OF DECISION

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Alternate Drinking Water, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Carbon At Tap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Flocculation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Natural Attenuation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Other, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Consolidate
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Impermeable Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/20/1999
Operable Unit: 01
Contaminated Media : Soil
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CAD009106220
Site ID: 0901128
Name: T.H. AGRICULTURE & NUTRITION CO.
Action Name: RECORD OF DECISION
Address: 7183 E MCKINLEY AVE

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

FRESNO, CA 93727
EPA Region: 09
County: FRESNO
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 06/20/1999
Operable Unit: 01
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/12/2010
Global Id: SLT5FQ384331
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: 10280334
Latitude: 36.7648
Longitude: -119.663
Case Type: Cleanup Program Site
Case Worker: DD
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: SLT5FQ038
File Location: DTSC
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:
PRP name: OLIN CORPORATION
SYNGENTA
T.H. AGRICULTURE & NUTRITION CO.

CUPA FRESNO:
Facility ID: FA0268619
Cross Street: TEMPERANCE
APM Number: 31006209
CERS Id: Not reported
SWIS Number: Not reported
GIS Latitude: 36.764155849300003
GIS Longitude: -119.659814201
Program Element: UST REMOVAL/CLOSURE W/1 TANK

Facility ID: FA0268619
Cross Street: TEMPERANCE
APM Number: 31006209
CERS Id: Not reported

T.H. AGRICULTURE & NUTRITION CO. (Continued) **1000146275**

SWIS Number: Not reported
GIS Latitude: 36.764155849300003
GIS Longitude: -119.659814201
Program Element: CONTAMINATED SITE - MISC/DTSC LEAD

CERS TANKS:
Site ID: 210851
CERS ID: SLT5FQ384331
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: JAN ALFSON - CENTRAL VALLEY RWQCB (REGION 5F)
Entity Title: Not reported
Affiliation Address: 1685 E STREET
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

D11 **THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPAN** **ENVIROSTOR** **S105960412**
ESE **7183 EAST MCKINLEY AVENUE** **HIST Cal-Sites** **N/A**
1/2-1 **FRESNO, CA 93727** **DEED**
0.853 mi. **CA BOND EXP. PLAN**
4506 ft. **Site 2 of 2 in cluster D** **Cortese**

Relative: Higher
Actual: 349 ft.

ENVIROSTOR:
Facility ID: 10280334
Status: Certified / Operation & Maintenance
Status Date: 01/12/2006
Site Code: 100146
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 5
NPL: DELISTED
Regulatory Agencies: SMBRP, RWQCB 5F - Central Valley, US EPA, FRESNO COUNTY
Lead Agency: SMBRP
Program Manager: Danny Domingo
Supervisor: Kevin Shaddy
Division Branch: Cleanup San Joaquin
Assembly: 23
Senate: 08
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: REM, DAY, ELD, HOS, LUC, MON, EX, GW, OIL, NOWN, NDAM, FOOD, COV, RES
Funding: Responsible Party
Latitude: 36.76415
Longitude: -119.6598
APN: 310-062-09
Past Use: MANUFACTURING - PESTICIDES, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC: DDD DDE DDT Endrin Toxaphene Chloroform 1,2-Dibromo-3-chloropropane (DBCP 1,2-Dichloroethane (EDC Dieldrin 1,2,3-Trichloropropane
Confirmed COC: DDD DDE DDT Endrin 1,2,3-Trichloropropane Toxaphene Chloroform 1,2-Dibromo-3-chloropropane (DBCP 1,2-Dichloroethane (EDC Dieldrin
Potential Description: AQUI, SOIL, WELL
Alias Name: DEPESTER WESTERN, INC

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Alias Type:	Alternate Name
Alias Name:	OLIN CORPORATION
Alias Type:	Alternate Name
Alias Name:	T H AGRICULTURE & NUTRITION CO, INC.
Alias Type:	Alternate Name
Alias Name:	T H AGRICULTURE AND NUTRITION CO. INC.
Alias Type:	Alternate Name
Alias Name:	T.H. AGRICULTURE & NUTRITION CO, INC.
Alias Type:	Alternate Name
Alias Name:	THAN
Alias Type:	Alternate Name
Alias Name:	THOMPSON HAYWARD AG & NUTRITION COMPANY
Alias Type:	Alternate Name
Alias Name:	THOMPSON HAYWARD CHEMICAL COMPANY
Alias Type:	Alternate Name
Alias Name:	310-062-09
Alias Type:	APN
Alias Name:	CAD009106220
Alias Type:	EPA Identification Number
Alias Name:	110002634828
Alias Type:	EPA (FRS #)
Alias Name:	SLT5FQ384331
Alias Type:	GeoTracker Global ID
Alias Name:	CAD980636161
Alias Type:	HWTS Identification Code
Alias Name:	P11082
Alias Type:	PCode
Alias Name:	100146
Alias Type:	Project Code (Site Code)
Alias Name:	10280334
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/27/2007
Comments:	Inspection Report to included in Final 5-Year Review Report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/24/1997
Comments:	RA -- A REMOVAL ACTION CONSISTING OF THE EXCAVATION, TRANS- PORTATION AND OFFSITE INCINERATION OF APPROXIMATELY 10 CY OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANIC CON- TAMINATED SOIL WAS COMPLETED.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/07/1997
Comments:	RAW A removal action workplan for removal of approximately Ten (10) cubic yards of pesticide contaminated soil was approved. A notice of exemption will be filed in accordance with the California Environmental Quality Act.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	02/20/1997
Comments:	CEQA/NOE -- A Notice of Exemption under CEQA was signed for a small removal action involving ten cubic yards of pesticide contaminated soil.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/05/1991
Comments:	Modified the existing order to reflect the progress the respondent, THAN, had made in complying with the order and to incorporate modifications in the domestic well sampling program and the Remedial Investigation and Feasibility Study (RIFS) and to provide new mechanism in approving or disapproving proposed technical modifications of the RIFS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	02/28/1987
Comments:	ISE Issued to four respondents, supersedes previous Order dated May 28, 1985.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	05/30/1985
Comments:	ISE Determination of Imminent or Substantial Endangerment and Remedial Action Order (I or SE and RAO) to five named respondents on May 28, 1985.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	12/16/1981
Comments:	Facility Identified: Phone Book (AKA: Olin Corp). RWQCB & HWMB/Enforcement handling site investigation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2003
Comments:	RMDL--Final remedial action consisting of construction of a composite clay and vegetated soil cap was completed. The final remedial action also includes monitored natural attenuation of impacted groundwater which has been in place since RAP approval (6/30/1999).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	06/28/2002
Comments:	DES - The final design for site soils was approved. The approved design entails the removal of two on-site structures, the abandonment of several monitoring wells that are no longer needed, and the construction of a cap over the entire 5 acre site property. The cap will be constructed of a geosynthetic clay liner placed over prepared

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

on-site soils which will then be overlayed with 18 inches of clean imported fill. The final surface will be hydroseeded with a low maintenance mix to prevent erosion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/30/1999
Comments: Agricultural chemical formulating, packaging, & warehousing plant. Contaminants include DDT, chloroform, xylene, dieldrin, 1,2-DCA, dinoseb, toxaphene, alpha BHC, beta BHC, gamma BHC, and aldrin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 06/30/1993
Comments: Remedial Investigation/Feasibility Study approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/15/1991
Comments: VAPOR: the removal and treatment of an estimated 6,500 pounds of xylenes and ethylbenzene by soil vapor extraction completed in 1991.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/24/1990
Comments: The provision of an alternative water supply via City of Fresno water line extension and connection of approximately 63 residents

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/1989
Comments: Removal Action (DEMOL): Building demolition. Soil removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/10/1987
Comments: Site Screening Done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1984
Comments: Removal Action (SOIL): Soil removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/23/2005
Comments: DTSC entered into an Operation and Maintenance Agreement with THAN that includes provisions for an Operation, Maintenance and Monitoring Plan.

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: National Priority List Delisting Document
Completed Date: 08/24/2006
Comments: Completion of 30 day Public Comment Period in the National Register. Published in US EPA Environmental News Press release.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 08/20/2007
Comments: Approved Workplan for 5-Year Review

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/24/2007
Comments: Fact Sheet Reviewed, and Revised by DTSC PPS and circulated to Branch Chiefs for approval. Upon approval sent to RP for distribution

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 10/23/2008
Comments: DTSC approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/30/2012
Comments: Single monitoring report, no comments required unless results identify necessary action to follow pursuant to contingency plan in O&M Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 06/03/2013
Comments: approval letter memorializing approval after reviews and revisions completed in february 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/11/2015
Comments: minor revision to be sent, approval of FYR done in letter of 6/11/2015
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Completed Date: 07/15/2013
Comments: Report Submitted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 12/19/2014
Comments: Initial Cost Estimate for O&M-FA, new/revised estimate currently being developed as part of 2nd 5-yr review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 02/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 12/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 08/07/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/11/2015
Comments: Reviewed and approved on as part of the 2nd 5 Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 01/26/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/27/2016
Comments: Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/31/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 09/29/2005
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/12/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/08/1987
Comments: required implementation of Interim Remedial Measures consisting of the provision of an alternative water supply for those parties impacted by groundwater contamination and the complete investigation and remediation of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/30/1999
Comments: Intial Study and Negative Declaration for the Remedial Action Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/29/2005
Comments: The land use controls include preclusion of sensitive uses, protection of cap, and a soil management plan

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Calsite:
Region: SACRAMENTO
Facility ID: 10280334
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: CC
Branch Name: CENTRAL CALIFORNIA

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

File Name:	Not reported
State Senate District:	01011985
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
NPL:	Listed
SIC Code:	28
SIC Name:	MANU - CHEMICALS & ALLIED PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	KSHADDY
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Region Water Control Board Name:	Not reported
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	29
State Senate District Code:	14
Facility ID:	10280334
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12161981
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05301985
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02101987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	DEMOL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	H20

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07241990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	THE EXTENSION OF THE FRESNO CITY WATER SYSTEM TO RESIDENTS IMPACTED BYGW CONTAMINATION. BULK OF WORK DONE 8/89 - 3/90 WITH SOME RESIDUALWORK DONE 7/90.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01051991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	VAPOR
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08151991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	SOIL VAPOR EXTRACTION WITH THERMAL OXIDATION. CUBIC FEET PER MINUTEUNKNOWN.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301999
Est Person-Yrs to complete:	0
Estimated Size:	S
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06282002
Est Person-Yrs to complete:	0.32000
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06302003
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	X
Action Included Fencing:	X
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Proposed Budget:	0
AWP Completion Date:	09302004
Revised Due Date:	04302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	11302034
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NOE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02201997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02071997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12241997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	10
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	EXCAVATION, TRANSPORTATION AND OFF-SITE INCINERATION OF APPROXIMATELY10 CUBIC YARDS OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANICCONTAMINATED SOIL.

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	7183 EAST MCKINLEY AVENUE
Alternate City,St,Zip:	FRESNO, CA 93727

Background Info:

five named respondents on May 28, 1985. This order was superseded by a new I or SE and RAO issued by DTSC to four respondents on January 23, 1987. This new Order was subsequently amended on May 8, 1987 and January 1, 1991.

The 1987 Order was very detailed and required implementation of Interim Remedial Measures consisting of the provision of an alternative water supply for those parties impacted by groundwater contamination and the complete investigation and remediation of the site. This Order, as amended, is still in force.

As part of the investigation of the site, a comprehensive chemical inventory was prepared. The inventory attempted to identify all chemicals handled at the site including but not limited to: active ingredients in pesticide formulation; inert ingredients in pesticide formulations; carrier solvents; laboratory chemicals; and chemical constituents present in trade name products handled at the facility. More than 500 individual chemical compounds were identified in the inventory.

More than 1,400 soil samples were collected during the Remedial Investigation (RI) conducted at the site. These samples were analyzed for up to 215 organic chemicals, 13 priority pollutant metals, and other selected inorganic chemicals. Eighty-five chemicals were identified in one or more of the soil samples collected. These eighty-five chemicals were screened for inclusion in a list of chemicals of concern (COCs) for subsequent evaluation in a baseline risk assessment

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

and for the ultimate identification of remediation goals.
More than 1,800 groundwater samples were collected from groundwater monitoring, domestic and irrigation wells at or near the site during the RI. Up to 196 chemicals were analyzed for in those groundwater samples. Sixty-six organic and inorganic chemicals were detected at least once in the groundwater samples collected.
Between 1984 and 1991, four removal actions (RAs) were conducted at the site. These included: the excavation and disposal of approximately 14,700 cubic yards of contaminated soil and debris in 1984; the demolition of five on-site structures and soil excavation from beneath them resulting in the off-site disposal of 5,100 tons of chemically-affected building debris and 10,000 cubic yards of contaminated soil in 1989; the provision of an alternative water supply via City of Fresno water line extension and connection of approximately 63 residents in 1990; and the removal and treatment of an estimated 6,500 pounds of xylenes and ethylbenzene by soil vapor extraction completed in 1991.
In addition, a small removal action consisting of the excavation and off-site incineration of approximately 10 cubic yards of pesticide contaminated soil from a small drainage system was completed in 1997.
DTSC approved the final RI/FS report for the site in June of 1993.
DTSC approved a final Remedial Action Plan (RAP) for the site in June 1999. The remedy selected in the RAP consist of natural attenuation of the chemicals of concern (COCs) in groundwater, the construction of a cap on-site, administrative controls limiting use of and access to the site, the continued monitoring of groundwater and contingencies for response actions should the monitoring indicate an increase of concentration of COCs in groundwater above prescribed action levels.
The T H Agriculutre & Nutrition, L.L.C. (THAN) site is located in a rural residential area east of the City of Fresno. The site consists of a 5-acre parcel which was utilized by a succession of owners for the formulation, packaging and warehousing of agricultural chemicals between 1951 and 1981. The plant was completely closed in 1983. The 5-acre facility is surrounded on the south, east and west by an additional 20 acres owned by THAN that has historically been planted with almond trees and grape vines.
The THAN site is listed on the U.S. Environmental Protection Agency's National Priority List, But the California Department of Toxic Substances Control (DTSC) has been designated as the lead agency for conducting oversight of the responsible party's remediation activities at the site.
Historically, site facilities consisted of a main brick plant building connected to a wooden warehouse, an office building and various outbuildings and storage areas. A second warehouse (stee was constructed by THAN in 1971. Five of the on-site buildings were demolished in 1989 in accordance with a DTSC approved Removal Action (RA) workplan. Currently there are three primary structures present on-site; the steel warehouse, the office building and a pump house.
DTSC issued a Determination of Imminent or Substantial Endangerment and Remedial Action Order (I or SE and RAO) to

Comments Date: 01231987

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Comments:	Second Determination of Imminent or Substantial Endangerment and
Comments Date:	01231987
Comments:	Remedial Action Order issued by DTSC superseding the first Order.
Comments Date:	02071997
Comments:	RAW A removal action workplan for removal of approximately
Comments Date:	02071997
Comments:	Ten (10) cubic yards of pesticide contaminated soil was
Comments Date:	02071997
Comments:	approved. A notice of exemption will be filed in accordance
Comments Date:	02071997
Comments:	with the California Environmental Quality Act.
Comments Date:	02101987
Comments:	Site Screening Done.
Comments Date:	02201997
Comments:	CEQA/NOE -- A Notice of Exemption under CEQA was signed for a
Comments Date:	02201997
Comments:	small removal action involving ten cubic yards of pesticide
Comments Date:	02201997
Comments:	contaminated soil.
Comments Date:	03041982
Comments:	Questionnaire sent.
Comments Date:	05281985
Comments:	First Determination of Imminent or Substantial Endangerment and
Comments Date:	05281985
Comments:	Remedial Action Order issued by DTSC.
Comments Date:	05301990
Comments:	Removal Action (H20): Bottled water provided. Waterline
Comments Date:	05301990
Comments:	connected.
Comments Date:	06282002
Comments:	DES - The final design for site soils was approved. The approved
Comments Date:	06282002
Comments:	design entails the removal of two on-site structures, the
Comments Date:	06282002
Comments:	abandonment of several monitoring wells that are no longer
Comments Date:	06282002
Comments:	needed, and the construction of a cap over the entire 5 acre site
Comments Date:	06282002
Comments:	property. The cap will be constructed of a geosynthetic clay
Comments Date:	06282002
Comments:	liner placed over prepared on-site soils which will then be
Comments Date:	06282002
Comments:	overlayed with 18 inches of clean imported fill. The final
Comments Date:	06282002
Comments:	surface will be hydroseeded with a low maintenance mix to prevent
Comments Date:	06282002
Comments:	erosion.
Comments Date:	06301989
Comments:	Removal Action (DEMOL): Building demolition. Soil removal.
Comments Date:	06301993
Comments:	Remedial Investigation/Feasibility Study approved.
Comments Date:	06301999
Comments:	A Remedial Action Plan was approved for the site. The RAP
Comments Date:	06301999
Comments:	identifies a soil remedy consisting of a cap along with
Comments Date:	06301999
Comments:	administrative controls (deed restriction, O & M, fencing).

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

Comments Date:	06301999
Comments:	For groundwater a remedy consisting of monitored natural
Comments Date:	06301999
Comments:	attenuation will be utilized. The remedy includes provisions
Comments Date:	06301999
Comments:	for contingent extraction with treatment as necessary of ground-
Comments Date:	06301999
Comments:	water to ensure the protection of public health.
Comments Date:	06301999
Comments:	Not reported
Comments Date:	06301999
Comments:	CEQA -- A Notice of Determination was signed along with the
Comments Date:	06301999
Comments:	approval of a negative declaration associated with the approval
Comments Date:	06301999
Comments:	of a RAP.
Comments Date:	06302003
Comments:	RMDL--Final remedial action consisting of construction of a
Comments Date:	06302003
Comments:	composite clay and vegetated soil cap was completed. The final
Comments Date:	06302003
Comments:	remedial action also includes monitored natural attenuation of
Comments Date:	06302003
Comments:	impacted groundwater which has been in place since RAP approval
Comments Date:	06302003
Comments:	(6/30/1999).
Comments Date:	07151991
Comments:	Removal Action (VAPOR): Soil vapor extraction.
Comments Date:	07191982
Comments:	Questionnaire Received: Currently owned by Thompson-Hayward.
Comments Date:	07251991
Comments:	Agricultural chemical formulating, packaging, & warehousing
Comments Date:	07251991
Comments:	plant. Contaminants include DDT, chloroform, xylene,
Comments Date:	07251991
Comments:	dieldrin, 1,2-DCA, dinoseb, toxaphene, alpha BHC, beta BHC,
Comments Date:	07251991
Comments:	gamma BHC, and aldrin.
Comments Date:	09301984
Comments:	Removal Action (SOIL): Soil removal.
Comments Date:	12161981
Comments:	Facility Identified: Phone Book (AKA: Olin Corp).
Comments Date:	12161981
Comments:	RWQCB & HWMB/Enforcement handling site investigation.
Comments Date:	12211981
Comments:	Abandoned Site Program (ASP) Records Search: Sacto files.
Comments Date:	12241997
Comments:	RA -- A REMOVAL ACTION CONSISTING OF THE EXCAVATION, TRANS-
Comments Date:	12241997
Comments:	PORTATION AND OFFSITE INCINERATION OF APPROXIMATELY 10
Comments Date:	12241997
Comments:	CY OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANIC CON-
Comments Date:	12241997
Comments:	TAMINATED SOIL WAS COMPLETED.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009106220
ID Name:	HWIS IDENTIFICATION CODE

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

ID Value: CAD980636161
ID Name: BEP DATABASE PCODE
ID Value: P11082
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD981616303
ID Name: CALSTARS CODE
ID Value: 100146
Alternate Name: DEPESTER WESTERN, INC
Alternate Name: OLIN CORPORATION
Alternate Name: THOMPSON HAYWARD CHEMICAL COMPANY
Alternate Name: THAN
Alternate Name: THOMPSON HAYWARD AG & NUTRITION COMPANY
Alternate Name: T H AGRICULTURE AND NUTRITION CO. INC.
Alternate Name: T H AGRICULTURE & NUTRITION CO, INC.
Alternate Name: T.H. AGRICULTURE & NUTRITION CO, INC.
Alternate Name: T H AGRICULTURE & NUTRITION, L.L.C.
Alternate Name: Not reported
Special Programs Code: MSCA
Special Programs Name: MULTI-SITE COOPERATIVE AGREEMENT

DEED:
Envirostor ID: 10280334
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/29/2005
File Name: Envirostor Land Use Restrictions

CA BOND EXP. PLAN:
Reponsible Party: NPL SITE CLEANUP WORKPLAN
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc: THAN has, to date, funded all remedial activities at the site. Successive owners at the site included Ciba-Geigy Corporation, Olin Corporation, De Pester Western, Inc. (Nevada), De Pester Western, Inc. (California) and THAN. The status of agreementsbetween THAN and other responsible parties is unknown. THAN has indicated continued interest in funding future RI/FS work. EPA has informed DHS and THAN that a RI/FS work plan would be developed independently by EPA's contractor should THAN violate any condition of the order. The Department has budgeted $600,000 for direct costs associated with the site. If bond monies are used, DHS will undertake appropriate cost recovery actions.
Site Description: The THAN site is located in a rural residential area of 2 to 100 acre parcels. The site comprises 5 acres within 25 acres owned by THAN. From 1951 to 1981, a succession of owners operated a plant at the site for the formulation, packaging and warehousing of a variety of agricultural chemicals. The plant was completely closed in February, 1983. Extensive ground water contamination of the onsite shallow water bearing zone has been documented. Offsite contamination of nearby individual water wellshas also been verified, indicating movement of the plume toward the City of Fresno.
Hazardous Waste Desc: Over 350 toxic and hazardous chemicals and substances have been handled or formulated at the site. Over 20 contaminants have been detected in onsite wells. These contaminants consist of solvents, pesticides and herbicides. Some

THOMPSON HAYWARD AGRICULTURAL AND NUTRITION COMPANY (THAN) (Continued) **S105960412**

	of the chemicals havea demonstrated ability to migrate through soils into ground water.
Threat To Public Health & Env:	The population served by ground water within a three mile radius of the plant is estimated at 30,000 to 35,000 people. There are an estimated 40 privately owned domestic wells within a one-half mile radius of the plant and nine community water supply wells within 3 miles downgradient of the site. Detectable levels of 1,2-dibromo-3-chloropropane, dieldrin, chloroform, heptachlor, alpha benzene hexachloride (BHC) and gamma BHC have been found in an increasing number of privately owned wells sincemonitoring began in 1981. The Fresno area has been designated by EPA as having a sole-source aquifer for drinking water supply. The site poses a potential public threat to drinking water supplies.
Site Activity Status:	The RWQCB and DHS have been working with THAN to accomplish site remediation. DHS adopted a determination of imminent and substantial endangerment and a remedial action order in May, 1985 that required THAN to address characterization and remediation of the site in accordance with EPA guidance documents (RI/FS format). The order also required development of an IRM for ground water. Both DHS and the RWQCB have been reviewing and commenting on the various reports submitted by THAN per the conditions of the order. The THAN site is listed on EPA's NPL; EPA has been involved in an advisory capacity. DHS reissued a Director's Order in February, 1987 that specified a monitoring well drilling program to characterize the ground water contaminant plume. The new order was amended in April, 1987. THAN is complying with the order and installed the required monitoring wells. Additionally, THAN has offered to fund connections of all impacted residences to the Fresno metropolitan water system. DHS iscurrently working with all involved agencies on implementation of this proposal. THAN has proposed demolition and removal of all onsite buildings previously involved with operations relating to the processing of ag-chemicals to occur late 1988 or early 1989. The Department has prepared all necessary environmental (CEQA) documents related to the demolition proposal.

CORTESE:

Region:	CORTESE
Envirostor Id:	10280334
Site/Facility Type:	FEDERAL SUPERFUND - DELISTED
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	01/12/2006
Site Code:	100146
Latitude:	36.764156
Longitude:	-119.65984
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRESNO	S122495065	FOWLER-MCKINLEY ELEMENTARY SCHOOL	NE CORNER OF FOWLER AVE. & MCK	93727	ENVIROSTOR, SCH
FRESNO	S122495058	SHIELDS-LOCAN ELEMENTARY SCHOOL	NORTHEAST OF SHIELDS AVE. & LO	93737	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 26

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/21/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/21/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 48

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 46

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 87

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018
Date Data Arrived at EDR: 03/17/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 107

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA SAN FRANCISCO CO

Cupa facilities

Date of Government Version: 04/20/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: DRYCLEAN SOUTH COAST

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/16/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 45

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 25

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 97

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 42

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/19/2018
Number of Days to Update: 43
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/14/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 04/13/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/25/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 24

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 14

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/25/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 56

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 05/02/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 44

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/12/2018
Date Data Arrived at EDR: 07/12/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 39

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 44

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 43

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/02/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 72

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 28
Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 13
Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30
Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 59
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/16/2018
Date Data Arrived at EDR: 07/18/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 37

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 63

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 13

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/22/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/31/2018
Number of Days to Update: 68

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/30/2018
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 28

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/30/2018
Date Data Arrived at EDR: 06/01/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 05/22/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/02/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 41

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 42

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/18/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/18/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 31

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/07/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/14/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 17
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 59

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 16

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/16/2018
Date Data Arrived at EDR: 05/22/2018
Date Made Active in Reports: 07/19/2018
Number of Days to Update: 58

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 40

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/19/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/21/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/03/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 45

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/21/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 33

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/22/2018
Date Made Active in Reports: 04/17/2018
Number of Days to Update: 26

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 41

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 29

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 04/26/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 28
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/20/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 9
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 31
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix H

Krazan & ASSOCIATES, INC.

SITE DEVELOPMENT ENGINEERS

William H. Vick, Ph.D., REA

Environmental Project Manager

AREAS OF EXPERTISE

Phase I Environmental Site Assessments
Environmental Analytical Chemistry
Pollutant Fate and Effects
Site Characterization and Remediation
Physical Characterization of Construction Materials
Quality Assurance/Quality Control Programs

EDUCATION AND CERTIFICATIONS

Bachelor of Science in Molecular Biology
University of Texas - Dallas
Doctor of Philosophy in Environmental Sciences
University of Texas – Dallas
California Environmental Protection Agency
Department of Toxic Substances Control
Registered Environmental Assessor I No. 30165
Asbestos Building Inspector, Certification No. 3370
NICET Certified Construction Materials Testing
CalTrans Certified Construction Materials Testing

PROFESSIONAL AFFILIATIONS

Member, American Society for Testing Materials

RELEVANT PROFESSIONAL EXPERIENCE

2002 to Present

Senior Technical Staff, Krazan & Associates, Inc.
Environmental project manager responsible for design, conduct, and management of site investigations, including Phase I Environmental Site Assessments using state-of-the-art research methods, and surface and subsurface contaminant characterization. Additional responsibilities include direction and management of construction materials testing laboratory, including data review, compliance evaluation, and quality assurance/quality control programs.

1981 to 1987

Principal Investigator, Science Applications, Inc.
Responsible for the design, conduct, and management of environmental research programs for government clients. In this capacity, primary responsibilities included design of multidisciplinary research programs in response to environmental issues of national scope, technical and financial management, design and implementation of project-specific quality assurance/quality control programs, statistical data evaluation/interpretation and report preparation. Representative research programs include development of an analytical chemistry procedure for ultra trace-level analysis of dioxin, investigation of the chronic toxicity of crude

oil to selected marine species, an evaluation of physical encapsulation techniques for remediation of dioxin contaminated soils, and participation in the remedial investigation/feasibility study of the Stringfellow NPL Superfund hazardous waste site.

1979 to 1981

Graduate Research Assistant, University of Texas - Dallas
Responsible for the design and conduct of an EPA-funded research program to assess the effectiveness of activated carbon for removal of trace-level organic pollutants from industrial wastewater. Conducted on-site, pilot-scale technology evaluation, characterized pollutant breakthrough profiles, and evaluated system monitoring techniques. Responsible for QA/QC program and for all data analysis and interpretation.

1977 to 1979

Environmental Chemistry Analyst, Texas Instruments, Inc.
Responsible for analysis of environmental samples for trace-level organic contaminants using mass spectrometry and gas chromatography. As senior analyst on evening shift, responsible for review, interpretation, and management of all data generated.

Krazan & ASSOCIATES, INC.

SITE DEVELOPMENT ENGINEERS

Art Farkas, R.E.A.

Vice President
Environmental Division

AREAS OF EXPERTISE

Project Management and Oversight
Senior Quality Control Review
Staff Development
Information Management
Marketing, Public Relations and Publicity

EDUCATION AND ACCOMPLISHMENTS

California Environmental Protection Agency
Department of Toxic Substances Control
Registered Environmental Assessor I No. 07818
Bachelor of Electronic Engineering Technology,
University of Dayton, Ohio
CEQA Training: University of California Davis Extension
NEPA Training: U.S. Department of Housing and Urban Development Region 9, San Francisco

PROFESSIONAL EXPERIENCE

February 1998 to Present

Vice President, Krazan & Associates, Inc., Environmental Division
CEQA and NEPA project management specialist. Project Manager and senior quality control reviewer for Phase I and Phase II Environmental Site Assessments. Activities include division oversight, business development, regional coordination of technical services and delivery of efficient integrated site development engineering services in conjunction with the Geotechnical and Construction Testing and Inspection Divisions of the firm

Dec. 1994 to Feb. 1998

Executive Director, Downtown Association of Fresno
Responsibilities included management of business association for Central Business District of Fresno; Director of the Fresno Main Street Program; project operations and promotions management; policy formation, budgeting; marketing, public relations; publicity, fundraising and public speaking; management of 18-member Board of Directors for non-profit organization.

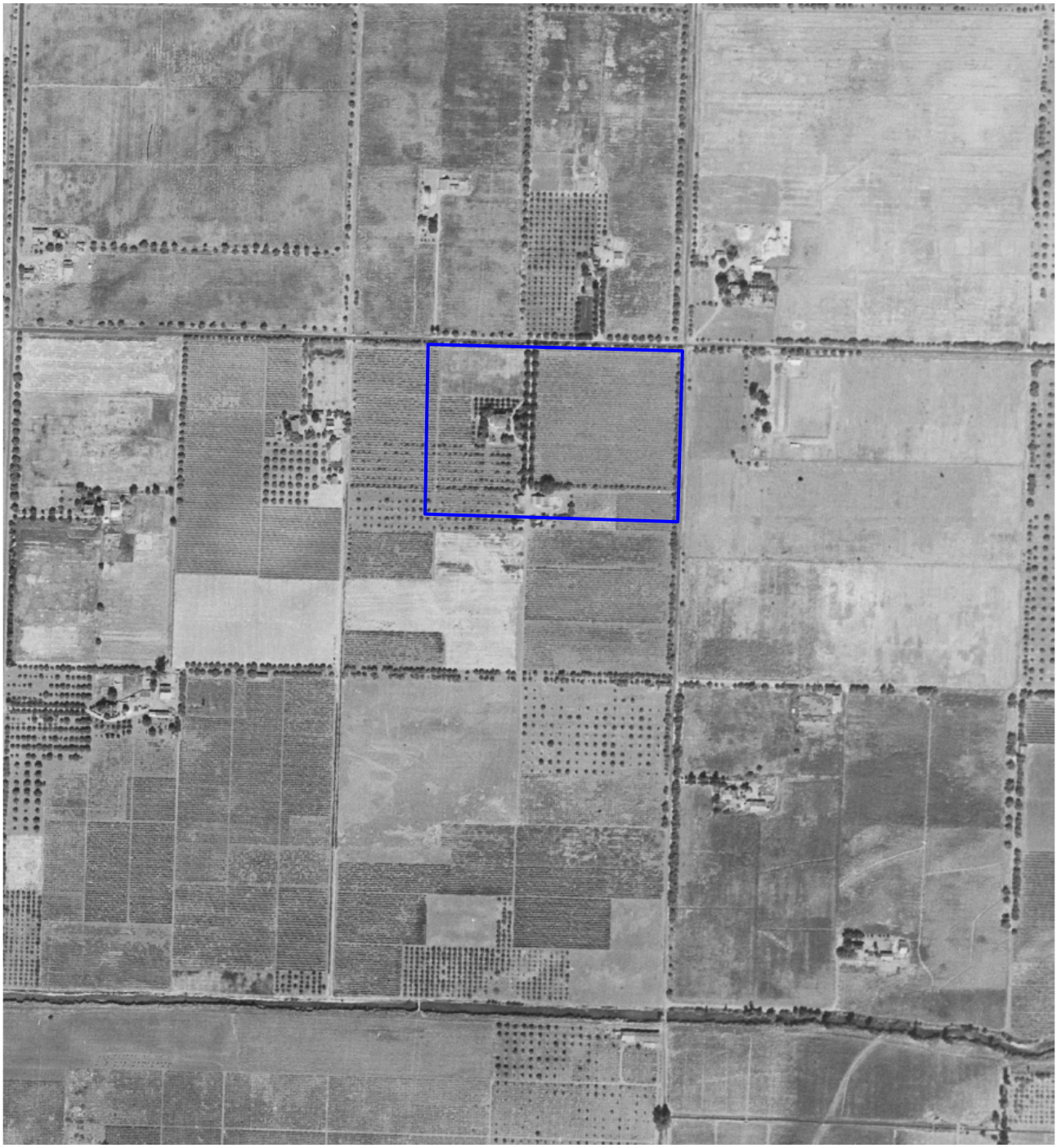
Apr. 1974 to Dec. 1994

Operations Manager/Program Director/Air Personality: Radio Broadcasting

1974 - 1980 KFIG	1981 - 1991 KKDJ
1980 - 1981 KIOY	1991 - 1994 KTHT

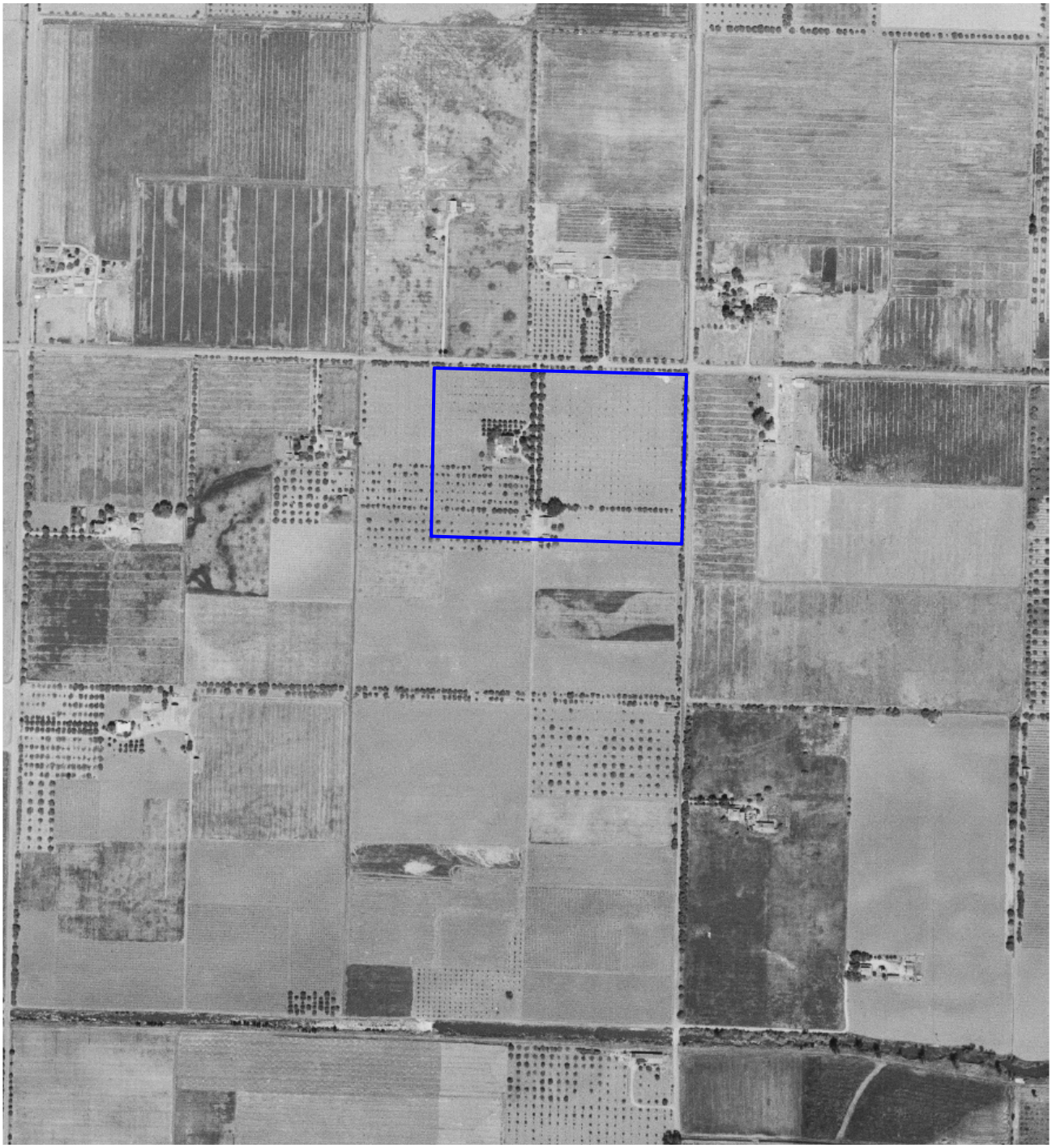
Responsibilities included operations management of staff and systems; program direction; on-air performance; production' promotions' public affairs and marketing.

Appendix F



= **Subject Site Boundary (Approximate)**

1937 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** October 2018	Krazan
ROCHA PROPERTY **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Drawn By:** BV	**Approved by:** BV	**SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Project No. 014-18149	**Source:** EDR	



= Subject Site Boundary (Approximate)

1946 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= Subject Site Boundary (Approximate)

1950 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
ROCHA PROPERTY **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Drawn By:** BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1957 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
ROCHA PROPERTY **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Drawn By:** BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1962 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1967 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** October 2018	Krazan
ROCHA PROPERTY **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Drawn By:** BV	**Approved by:** BV	**SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1973 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= Subject Site Boundary (Approximate)

1979 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
ROCHA PROPERTY **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Drawn By:** BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1984 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

1987 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



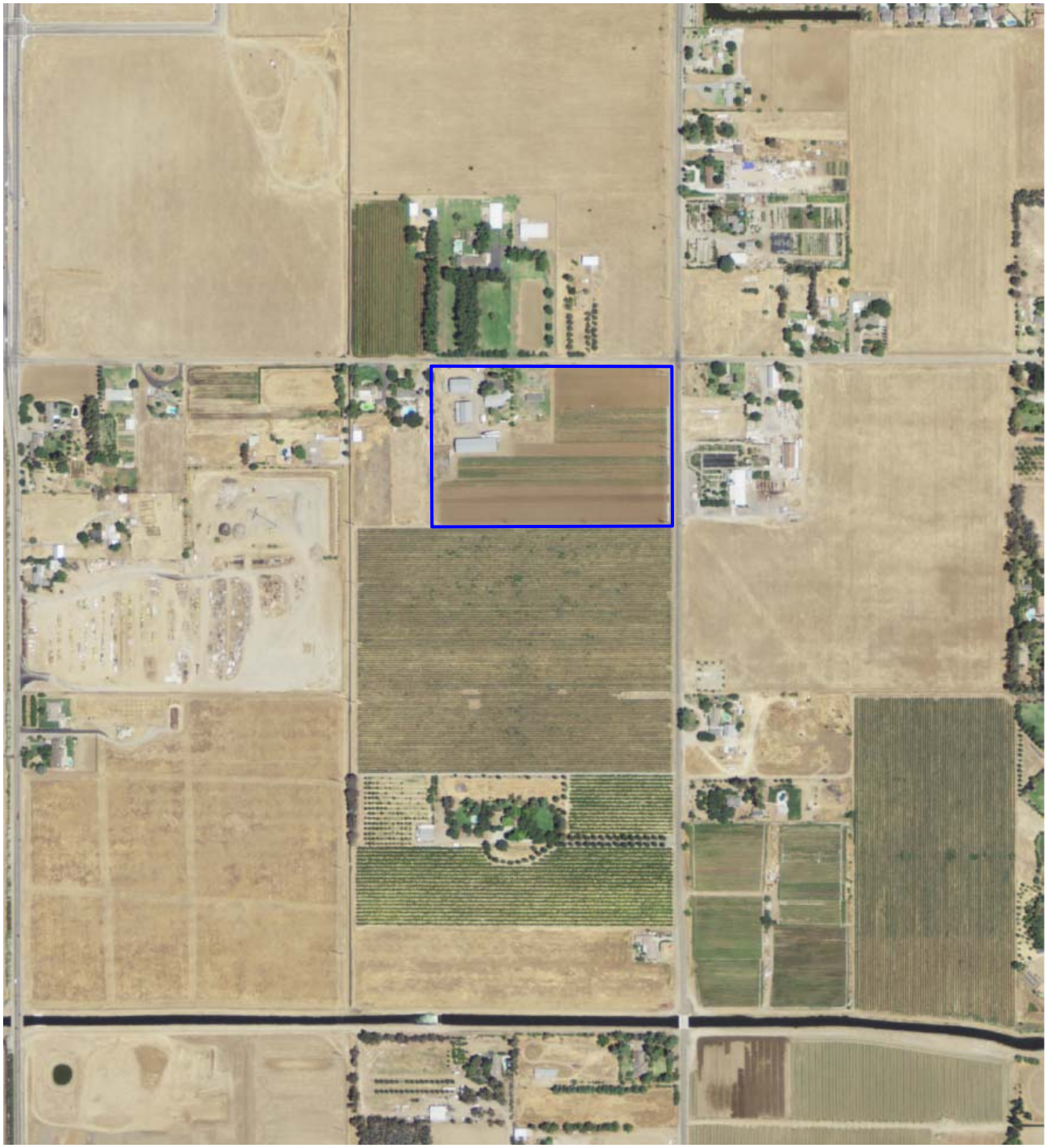
= Subject Site Boundary (Approximate)

1998 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

2006 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= **Subject Site Boundary (Approximate)**

2012 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



= Subject Site Boundary (Approximate)

2018 AERIAL PHOTOGRAPH **ROCHA PROPERTY** **6351 E. CLINTON AVENUE** **APN 310-041-20** **FRESNO, CALIFORNIA 93727**	**Scale:** 1" = 500'	**Date:** October 2018	Krazan **SITE DEVELOPMENT ENGINEERS** ***Offices Serving the Western United States***
	Drawn By: BV	**Approved by:** BV	
	Project No. 014-18149	**Source:** EDR	



2021 AERIAL PHOTOGRAPH	**Scale:** 1" = 500'	**Date:** November 2021	Krazan **SITE DEVELOPMENT ENGINEERS** ***With Offices Serving the Western United States***
ROCHA PROPERTY **6351 AND 6361 EAST CLINTON AVENUE** **FRESNO, CALIFORNIA 93727**	**Drawn By:** KS	**Approved by:** KS	
	Project No. 014-21164	**Source:** Google Earth	

Appendix G

Rocha Property

SWC Clinton Avenue and Armstrong Avenue

Fresno, CA 93727

Inquiry Number: 6711411.3

October 19, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/19/21

Site Name:

Rocha Property
SWC Clinton Avenue and Arms
Fresno, CA 93727
EDR Inquiry # 6711411.3

Client Name:

Krazan & Associates, Inc.
215 West Dakota
Clovis, CA 93612
Contact: Laurie K Blakeman

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Krazan & Associates, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 3C28-441F-9648

PO # 014-21164

Project Rocha Property

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 3C28-441F-9648

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Krazan & Associates, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2021 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Appendix H

PAGE 317 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
ANTHONY J. ROCHA
6351 E. CLINTON AVE. FRESNO CA 93727

II FACILITY

	MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
ROCHA FARM 6351 E. CLINTON AVE. FRESNO CA 93727 CROSS STREET :	6351 E. CLINTON AVE. FRESNO CA 93727	(209) 291-3721	FARMING 2

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: ROCHA, ANTHONY (209) 291-3721 NIGHT: SAME ( ) -

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000023424001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 1,800
E. REPAIRS : UNKN IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : RUBBER
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

PAGE 318 STATE WATER RESOURCES CONTROL BOARD 06/01/88

HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR FRESNO COUNTY

CONTAINER TYPES: 1,2,3,4,5

(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

********** OWNER ASSIGNED CONTAINER NUMBER: 2 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000023424002 *********

IV DESCRIPTION

A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: CURRIE BROS. /1974
C. YEAR INSTALLED : 1974
D. CAPACITY (GALLONS) : 1,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: REGULAR

IS CONTAINER LOCATED ON A FARM : YES

V CONTAINER CONSTRUCTION

A. THICKNESS: B. VAULTING: UNKNOWN C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : TAR TAR OR ASPHT

VI PIPING

A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : UNKN IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION

STOCK INVENTORY

VIII CHEMICAL COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER

12032 REGULAR MOTOR VEHICLE FUEL

Appendix I

Rocha Property
SWC Clinton Avenue and Armstrong Avenue
Fresno, CA 93727

Inquiry Number: 6711411.2s
October 19, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	55
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-10
Physical Setting Source Map Findings	A-12
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

SWC CLINTON AVENUE AND ARMSTRONG AVENUE
FRESNO, CA 93727

COORDINATES

Latitude (North):	36.7711530 - 36° 46' 16.15''
Longitude (West):	119.6748550 - 119° 40' 29.47''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	261260.0
UTM Y (Meters):	4072621.0
Elevation:	344 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5603160 CLOVIS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140618
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
SWC CLINTON AVENUE AND ARMSTRONG AVENUE
FRESNO, CA 93727

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ROCHA FARM	6351 E CLINTON AVE	SWEEPS UST, CA FID UST	Higher	1 ft.
A2	ROCHA FARM	6351 E CLINTON AVE	HIST UST	Higher	1 ft.
3	CITY OF FRESNO WELL	2220 N ARMSTRONG AVE	CUPA Listings	Lower	491, 0.093, SSE
B4	STEVEN DITTO PROPERT	2594 N ARMSTRONG	CUPA Listings	Higher	547, 0.104, NNE
B5	DULEY'S LANDSCAPING	2594 N ARMSTRONG AVE	RCRA NonGen / NLR	Higher	547, 0.104, NNE
B6	JD ENTERPRISES	2614 N ARMSTRONG	CUPA Listings	Higher	761, 0.144, NNE
C7	RANCH #25	2187 N ARMSTRONG AVE	SWEEPS UST, HIST UST, CA FID UST	Lower	1314, 0.249, SSE
C8	RANCH #25	2187 N ARMSTRONG AVE	HIST UST	Lower	1314, 0.249, SSE
9	CLOVIS USD - PROPOSE	SE INTERSECTION OF T	ENVIROSTOR, SCH	Higher	3100, 0.587, East
D10	T H AGRICULTURE & NU	7183 EAST MCKINLEY A	ENVIROSTOR, HIST Cal-Sites, DEED, CA BOND EXP....	Higher	4503, 0.853, ESE
D11	TH AGRICULTURE & NUT	7183 E MC KINLEY AVE	Delisted NPL, SEMS, RCRA-SQG, US ENG CONTROLS, US...	Higher	4503, 0.853, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent NPL

RESPONSE State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists

LUST Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
UST Active UST Facilities
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing
VCP Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT Waste Management Unit Database
SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register
SCH School Property Evaluation Program
CDL Clandestine Drug Labs
CERS HAZ WASTE CERS HAZ WASTE
Toxic Pits Toxic Pits Cleanup Act Sites

US CDL ..... National Clandestine Laboratory Register
PFAS ..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS ..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
FINDS ..... Facility Index System/Facility Registry System

DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
ECHO ---- Enforcement & Compliance History Information
UXO ---- Unexploded Ordnance Sites
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
Cortese ---- "Cortese" Hazardous Waste & Substances Sites List
DRYCLEANERS ---- Cleaner Facilities
EMI ---- Emissions Inventory Data
ENF ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HAZNET ---- Facility and Manifest Data
ICE ---- ICE
HIST CORTESE ---- Hazardous Waste & Substance Site List
HWP ---- EnviroStor Permitted Facilities Listing
HWT ---- Registered Hazardous Waste Transporter Database
MINES ---- Mines Site Location Listing
MWMP ---- Medical Waste Management Program Listing
NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
MINES MRDS ---- Mineral Resources Data System
HWTS ---- Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal Delisted NPL site list

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 deleted from the NPL where no further response is appropriate.

A review of the Delisted NPL list, as provided by EDR, and dated 07/29/2021 has revealed that there is 1 Delisted NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TH AGRICULTURE & NUT	***7183 E MC KINLEY AVE***	***ESE 1/2 - 1 (0.853 mi.)***	***D11***	***41***
EPA ID:: CAD009106220				
Site ID:: 901128				

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/22/2021 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLOVIS USD - PROPOSE	***SE INTERSECTION OF T***	***E 1/2 - 1 (0.587 mi.)***	***9***	***16***
Facility Id: 60001940				
Status: No Further Action				
T H AGRICULTURE & NU	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D10***	***19***
Facility Id: 10280334				
Status: Certified / Operation & Maintenance				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
T H AGRICULTURE & NU	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D10***	***19***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROCHA FARM	***6351 E CLINTON AVE***	***0 - 1/8 (0.000 mi.)***	***A1***	***9***
Status: A				
Tank Status: A				
Comp Number: 23424				

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C7***	***14***
Status: A				
Tank Status: A				
Comp Number: 32783				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROCHA FARM	6351 E CLINTON AVE	0 - 1/8 (0.000 mi.)	A2	10
Facility Id: 00000023424				

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C7***	***14***
RANCH #25	2187 N ARMSTRONG AVE	SSE 1/8 - 1/4 (0.249 mi.)	C8	16

Facility Id: 00000032783

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROCHA FARM Facility Id: 10005850 Status: A	***6351 E CLINTON AVE***	***0 - 1/8 (0.000 mi.)***	***A1***	***9***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RANCH #25 Facility Id: 10006413 Status: A	***2187 N ARMSTRONG AVE***	***SSE 1/8 - 1/4 (0.249 mi.)***	***C7***	***14***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DULEY'S LANDSCAPING EPA ID:: CAL000381955	2594 N ARMSTRONG AVE	NNE 0 - 1/8 (0.104 mi.)	B5	11

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 07/29/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TH AGRICULTURE & NUT EPA ID:: CAD009106220	***7183 E MC KINLEY AVE***	***ESE 1/2 - 1 (0.853 mi.)***	***D11***	***41***

EXECUTIVE SUMMARY

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
T H AGRICULTURE & NU	***7183 EAST MCKINLEY A***	***ESE 1/2 - 1 (0.853 mi.)***	***D10***	***19***

CUPA Listings: A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 3 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STEVEN DITTO PROPERT	2594 N ARMSTRONG	NNE 0 - 1/8 (0.104 mi.)	B4	11
Database: CUPA FRESNO, Date of Government Version: 04/09/2021				
Facility Id: FA0270541				
JD ENTERPRISES	2614 N ARMSTRONG	NNE 1/8 - 1/4 (0.144 mi.)	B6	14
Database: CUPA FRESNO, Date of Government Version: 04/09/2021				
Facility Id: FA0271445				

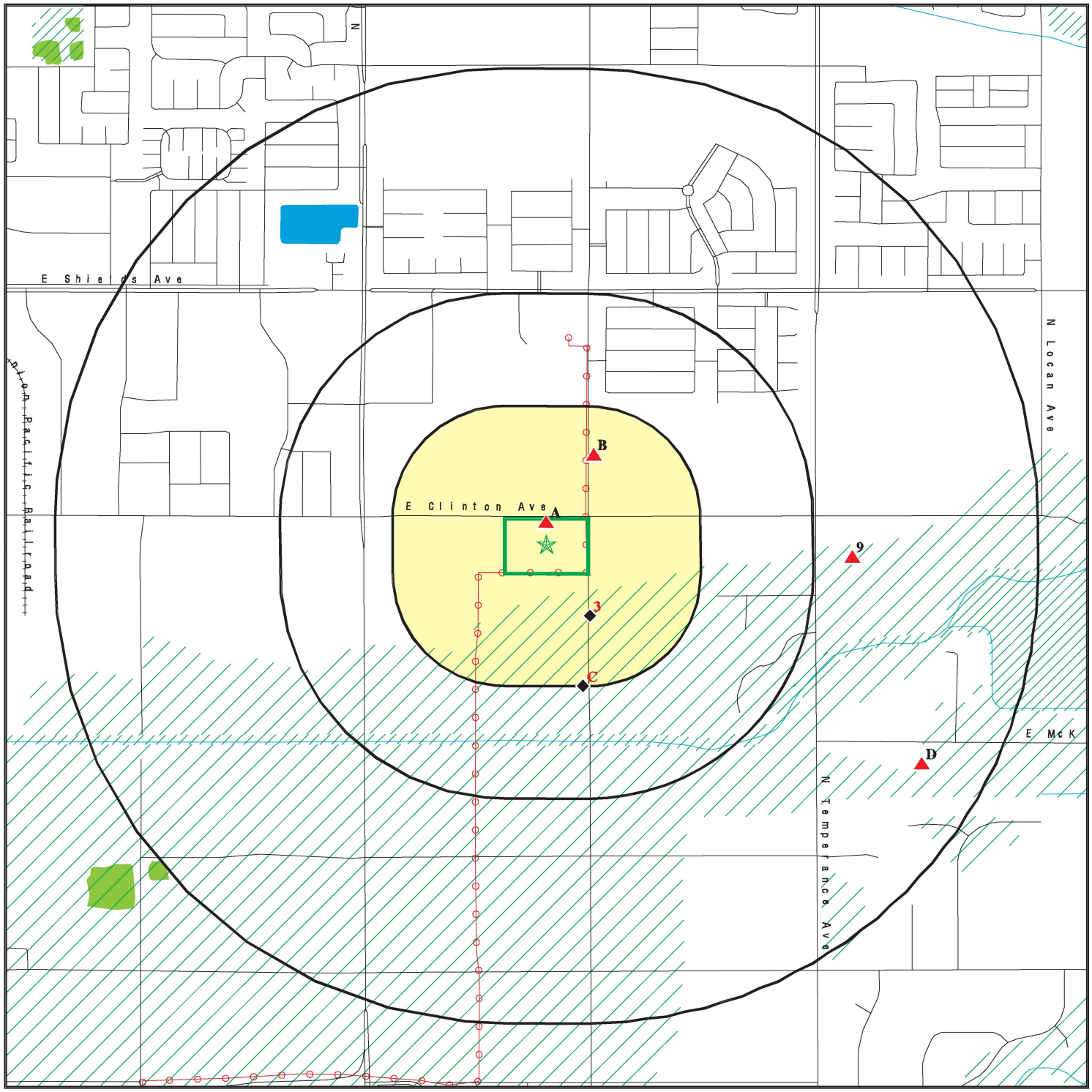
Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF FRESNO WELL	2220 N ARMSTRONG AVE	SSE 0 - 1/8 (0.093 mi.)	3	11
Database: CUPA FRESNO, Date of Government Version: 04/09/2021				
Facility Id: FA0283561				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
FOWLER-MCKINLEY ELEMENTARY SCHOOL	ENVIROSTOR, SCH
PROPOSED TEMPERANCE ELEMENTARY SCH	ENVIROSTOR, SCH

OVERVIEW MAP - 6711411.2S



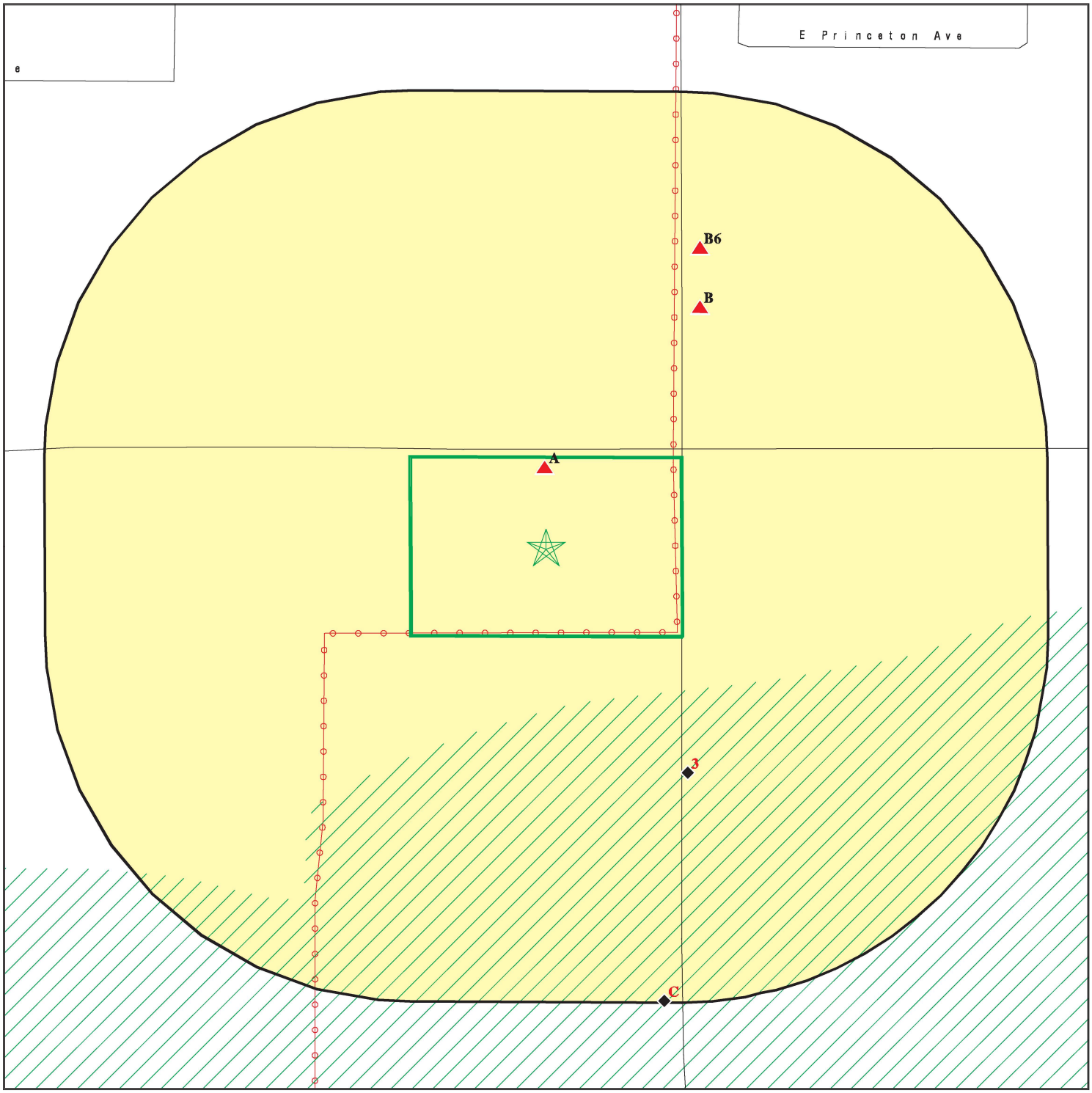
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Rocha Property	CLIENT:	Krazan & Associates, Inc.
ADDRESS:	SWC Clinton Avenue and Armstrong Avenue Fresno CA 93727	CONTACT:	Laurie K Blakeman
LAT/LONG:	36.771153 / 119.674855	INQUIRY #:	6711411.2s
		DATE:	October 19, 2021 8:54 pm

Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 6711411.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Rocha Property	CLIENT:	Krazan & Associates, Inc.
ADDRESS:	SWC Clinton Avenue and Armstrong Avenue Fresno CA 93727	CONTACT:	Laurie K Blakeman
LAT/LONG:	36.771153 / 119.674855	INQUIRY #:	6711411.2s
		DATE:	October 19, 2021 8:57 pm

Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	1	NR	1
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	1	NR	NR	NR	2
HIST UST	0.250		1	2	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		1	1	NR	NR	NR	2
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		2	1	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	6	5	0	6	0	17

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **ROCHA FARM** **SWEEPS UST** **S101629539**
6351 E CLINTON AVE **CA FID UST** **N/A**
< 1/8 **FRESNO, CA 93727**
1 ft.

Site 1 of 2 in cluster A

Relative: Higher

Actual: 344 ft.

SWEEPS UST:

Name:	ROCHA FARM
Address:	6351 E CLINTON AVE
City:	FRESNO
Status:	Active
Comp Number:	23424
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	10-000-023424-000001
Tank Status:	A
Capacity:	1800
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	2

Name:	ROCHA FARM
Address:	6351 E CLINTON AVE
City:	FRESNO
Status:	Active
Comp Number:	23424
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	10-000-023424-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	10005850
Regulated By:	UTNKA
Regulated ID:	00023424
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2092913721
Mail To:	Not reported
Mailing Address:	6351 E CLINTON AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FRESNO 93727
Contact:	Not reported

ROCHA FARM (Continued) **S101629539**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

A2 **ROCHA FARM** **HIST UST** **U001592983**
6351 E CLINTON AVE **N/A**
< 1/8 **FRESNO, CA 93727**
1 ft.

Site 2 of 2 in cluster A

Relative: HIST UST:
Higher

Actual: Name: ROCHA FARM
344 ft. Address: 6351 E CLINTON AVE
City,State,Zip: FRESNO, CA 93727
File Number: 0002380E
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002380E.pdf
Region: STATE
Facility ID: 00000023424
Facility Type: Other
Other Type: FARMING
Contact Name: Not reported
Telephone: 2092913721
Owner Name: ANTHONY J. ROCHA
Owner Address: 6351 E. CLINTON AVE.
Owner City,St,Zip: FRESNO, CA 93727
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: 1974
Tank Capacity: 00001800
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1974
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

3
SSE
< 1/8
0.093 mi.
491 ft.

CITY OF FRESNO WELL 347
2220 N ARMSTRONG AVE
FRESNO, CA 93727

CUPA Listings **S116348293**
N/A

Relative:
Lower

Actual:
343 ft.

CUPA FRESNO:

Name:	CITY OF FRESNO WELL 347
Address:	2220 N ARMSTRONG AVE
City,State,Zip:	FRESNO, CA 93727
Region:	FRESNO
Cross Street:	CLINTON
Facility ID:	FA0283561
APM Number:	31004126
Program Element:	HAZARDOUS MATERIALS HANDLER - WELL SITE

B4
NNE
< 1/8
0.104 mi.
547 ft.

STEVEN DITTO PROPERTY
2594 N ARMSTRONG
FRESNO, CA 93727

Site 1 of 3 in cluster B

CUPA Listings **S104867165**
N/A

Relative:
Higher

Actual:
347 ft.

CUPA FRESNO:

Name:	STEVEN DITTO PROPERTY
Address:	2594 N ARMSTRONG
City,State,Zip:	FRESNO, CA 93727
Region:	FRESNO
Cross Street:	Not reported
Facility ID:	FA0270541
APM Number:	31025013
Program Element:	SUSPECTED UST FACILITY/UNCONFIRMED

Name:	STEVEN DITTO PROPERTY
Address:	2594 N ARMSTRONG
City,State,Zip:	FRESNO, CA 93727
Region:	FRESNO
Cross Street:	Not reported
Facility ID:	FA0270541
APM Number:	31025013
Program Element:	WASTE TIRE FACILITY

B5
NNE
< 1/8
0.104 mi.
547 ft.

DULEY'S LANDSCAPING INC
2594 N ARMSTRONG AVE
FRESNO, CA 93727

Site 2 of 3 in cluster B

RCRA NonGen / NLR **1024837145**
CAL000381955

Relative:
Higher

Actual:
347 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20130125
Handler Name:	DULEY'S LANDSCAPING INC
Handler Address:	2594 N ARMSTRONG AVE
Handler City,State,Zip:	FRESNO, CA 93727-1401
EPA ID:	CAL000381955
Contact Name:	TIM JOHNSON
Contact Address:	2594 N ARMSTRONG AVE
Contact City,State,Zip:	FRESNO, CA 93727
Contact Telephone:	559-352-2637
Contact Fax:	559-855-3315

DULEY'S LANDSCAPING INC (Continued) **1024837145**

Contact Email:	TIMJ@DULEYSLANDSCAPE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	28876 TOPAZ RD
Mailing City,State,Zip:	TOLLHOUSE, CA 93667-9712
Owner Name:	DULEY'S LANDSCAPING INC
Owner Type:	Other
Operator Name:	TIM JOHNSON
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

DULEY'S LANDSCAPING INC (Continued) **1024837145**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DULEY'S LANDSCAPING INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	28876 TOPAZ RD
Owner/Operator City,State,Zip:	TOLLHOUSE, CA 93667-9712
Owner/Operator Telephone:	559-855-5090
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	TIM JOHNSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2594 N ARMSTRONG AVE
Owner/Operator City,State,Zip:	FRESNO, CA 93727
Owner/Operator Telephone:	559-352-2637
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20130125
Handler Name: DULEY'S LANDSCAPING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

DULEY'S LANDSCAPING INC (Continued) **1024837145**

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B6 **JD ENTERPRISES** **CUPA Listings** **S100864868**
NNE **2614 N ARMSTRONG** **N/A**
1/8-1/4 **FRESNO, CA 93727**
0.144 mi.
761 ft. **Site 3 of 3 in cluster B**

Relative: Higher
Actual: 347 ft.

CUPA FRESNO:
Name: JD ENTERPRISES
Address: 2614 N ARMSTRONG
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0271445
APM Number: 31025014
Program Element: HAZ MAT DISCLOSURE/CLOSED SITE

Name: JD ENTERPRISES
Address: 2614 N ARMSTRONG
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: Not reported
Facility ID: FA0271445
APM Number: 31025014
Program Element: HAZARDOUS WASTE GENERATOR (SQG)

C7 **RANCH #25** **SWEEPS UST** **S101621156**
SSE **2187 N ARMSTRONG AVE** **HIST UST** **N/A**
1/8-1/4 **FRESNO, CA 93616** **CA FID UST**
0.249 mi.
1314 ft. **Site 1 of 2 in cluster C**

Relative: Lower
Actual: 343 ft.

SWEEPS UST:
Name: RANCH #25
Address: 2187 N ARMSTRONG AVE
City: FRESNO
Status: Active
Comp Number: 32783
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 970009
SWRCB Tank Id: 10-000-032783-000001

RANCH #25 (Continued) **S101621156**

Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 1

HIST UST:
Name: RANCH 25
Address: 2187 N ARMSTRONG AVENUE
City,State,Zip: FRESNO, CA 93616
File Number: 00024365
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024365.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 10006413
Regulated By: UTNKA
Regulated ID: 00032783
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2094451574
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FRESNO 93616
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

C8
SSE
1/8-1/4
0.249 mi.
1314 ft.

RANCH #25
2187 N ARMSTRONG AVE
FRESNO, CA 93616

Site 2 of 2 in cluster C

HIST UST **U001587818**
N/A

Relative:
Lower

Actual:
343 ft.

HIST UST:

Name:	RANCH #25
Address:	2187 N ARMSTRONG AVE
City,State,Zip:	FRESNO, CA 93616
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000032783
Facility Type:	Other
Other Type:	FARM
Contact Name:	PAUL WILLIAMSON
Telephone:	2094451574
Owner Name:	H. P. METZLER AND SONS
Owner Address:	5286 SOUTH DEL REY AVENUE
Owner City,St,Zip:	DEL REY, CA 93616
Total Tanks:	0001
Tank Num:	001
Container Num:	970009
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Visual

9
East
1/2-1
0.587 mi.
3100 ft.

CLOVIS USD - PROPOSED K-6 SCHOOL
SE INTERSECTION OF TEMPERANCE & CLINTON AVENUES
FRESNO, CA 93727

ENVIROSTOR SCH **S114002227**
N/A

Relative:
Higher

Actual:
348 ft.

ENVIROSTOR:

Name:	CLOVIS USD - PROPOSED K-6 SCHOOL
Address:	SE INTERSECTION OF TEMPERANCE & CLINTON AVENUES
City,State,Zip:	FRESNO, CA 93727
Facility ID:	60001940
Status:	No Further Action
Status Date:	04/17/2014
Site Code:	104722
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	20
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jose Luevano
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Assembly:	23
Senate:	08
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Funding: School District
Latitude: 36.77082
Longitude: -119.6626
APN: 310-052-21, 31005221
Past Use: AGRICULTURAL - ROW CROPS, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Chlordane DDD DDE DDT Lead Arsenic Chlordane DDD DDE DDT Lead Polychlorinated biphenyls (PCBs
Confirmed COC: No Contaminants found 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO No Contaminants found 30018-NO
Potential Description: NMA, SOIL, SOIL, UE
Alias Name: 310-052-21
Alias Type: APN
Alias Name: 31005221
Alias Type: APN
Alias Name: 104722
Alias Type: Project Code (Site Code)
Alias Name: 60001940
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/03/2014
Comments: PEA Workplan implemented. DTSC PM on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/12/2013
Comments: EOA signed by both parties.

Future Area Name: Not reported
Future Sub Area Name: Not reported

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	CLOVIS USD - PROPOSED K-6 SCHOOL
Address:	SE INTERSECTION OF TEMPERANCE & CLINTON AVENUES
City,State,Zip:	FRESNO, CA 93727
Facility ID:	60001940
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	20
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jose Luevano
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Site Code:	104722
Assembly:	23
Senate:	08
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/17/2014
Restricted Use:	NO
Funding:	School District
Latitude:	36.77082
Longitude:	-119.6626
APN:	310-052-21, 31005221
Past Use:	AGRICULTURAL - ROW CROPS, AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Arsenic, Arsenic, Chlordane, DDD, DDE, DDT, Lead, Polychlorinated biphenyls (PCBs
Confirmed COC:	No Contaminants found, , 30001-NO, 30001-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, No Contaminants found, 30018-NO
Potential Description:	NMA, SOIL, SOIL, UE
Alias Name:	310-052-21
Alias Type:	APN
Alias Name:	31005221
Alias Type:	APN
Alias Name:	104722
Alias Type:	Project Code (Site Code)
Alias Name:	60001940
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/19/2014
Comments:	Not reported

CLOVIS USD - PROPOSED K-6 SCHOOL (Continued) **S114002227**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/03/2014
Comments: PEA Workplan implemented. DTSC PM on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 11/12/2013
Comments: EOA signed by both parties.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

D10 **T H AGRICULTURE & NUTRITION, L.L.C.** **ENVIROSTOR** **S105960412**
ESE **7183 EAST MCKINLEY AVENUE** **HIST Cal-Sites** **N/A**
1/2-1 **FRESNO, CA 93727** **DEED**
0.853 mi. **CA BOND EXP. PLAN**
4503 ft. **Site 1 of 2 in cluster D** **Cortese**

Relative: Higher
Actual: 349 ft.

ENVIROSTOR:
Name: T H AGRICULTURE & NUTRITION, L.L.C.
Address: 7183 EAST MCKINLEY AVENUE
City,State,Zip: FRESNO, CA 93727
Facility ID: 10280334
Status: Certified / Operation & Maintenance
Status Date: 01/12/2006
Site Code: 100146
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 5
NPL: DELISTED

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Regulatory Agencies: SMBRP, RWQCB 5F - Central Valley, US EPA, FRESNO COUNTY
Lead Agency: SMBRP
Program Manager: Danny Domingo
Supervisor: Joseph Tapia
Division Branch: Engineering & Special Projects
Assembly: 23
Senate: 08
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: REM, DAY, ELD, HOS, LUC, MON, EX, GW, OIL, NOWN, NDAM, FOOD, COV, RES
Funding: Responsible Party
Latitude: 36.76415
Longitude: -119.6598
APN: 310-062-09
Past Use: MANUFACTURING - PESTICIDES, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC: DDD DDE DDT Endrin Toxaphene Chloroform 1,2-Dibromo-3-chloropropane (DBCP 1,2-Dichloroethane (EDC Dieldrin 1,2,3-Trichloropropane
Confirmed COC: DDD DDE DDT Endrin 1,2,3-Trichloropropane Toxaphene Chloroform 1,2-Dibromo-3-chloropropane (DBCP 1,2-Dichloroethane (EDC Dieldrin
Potential Description: AQUI, SOIL, WELL
Alias Name: DEPESTER WESTERN, INC
Alias Type: Alternate Name
Alias Name: OLIN CORPORATION
Alias Type: Alternate Name
Alias Name: T H AGRICULTURE & NUTRITION CO, INC.
Alias Type: Alternate Name
Alias Name: T H AGRICULTURE AND NUTRITION CO. INC.
Alias Type: Alternate Name
Alias Name: T.H. AGRICULTURE & NUTRITION CO, INC.
Alias Type: Alternate Name
Alias Name: THAN
Alias Type: Alternate Name
Alias Name: THOMPSON HAYWARD AG & NUTRITION COMPANY
Alias Type: Alternate Name
Alias Name: THOMPSON HAYWARD CHEMICAL COMPANY
Alias Type: Alternate Name
Alias Name: 310-062-09
Alias Type: APN
Alias Name: CAD009106220
Alias Type: EPA Identification Number
Alias Name: 110002634828
Alias Type: EPA (FRS #)
Alias Name: SLT5FQ384331
Alias Type: GeoTracker Global ID
Alias Name: CAD980636161
Alias Type: HWTS Identification Code
Alias Name: P11082
Alias Type: PCode
Alias Name: 100146
Alias Type: Project Code (Site Code)
Alias Name: 10280334
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/20/1997

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Comments:	CEQA/NOE -- A Notice of Exemption under CEQA was signed for a small removal action involving ten cubic yards of pesticide contaminated soil.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	01/05/1991
Comments:	Modified the existing order to reflect the progress the respondent, THAN, had made in complying with the order and to incorporate modifications in the domestic well sampling program and the Remedial Investigation and Feasibility Study (RIFS) and to provide new mechanism in approving or disapproving proposed technical modifications of the RIFS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	02/28/1987
Comments:	ISE Issued to four respondents, supersedes previous Order dated May 28, 1985.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	05/30/1985
Comments:	ISE Determination of Imminent or Substantial Endangerment and Remedial Action Order (I or SE and RAO) to five named respondents on May 28, 1985.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	12/16/1981
Comments:	Facility Identified: Phone Book (AKA: Olin Corp). RWQCB & HWMB/Enforcement handling site investigation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/30/2003
Comments:	RMDL--Final remedial action consisting of construction of a composite clay and vegetated soil cap was completed. The final remedial action also includes monitored natural attenuation of impacted groundwater which has been in place since RAP approval (6/30/1999).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	06/28/2002
Comments:	DES - The final design for site soils was approved. The approved design entails the removal of two on-site structures, the abandonment of several monitoring wells that are no longer needed, and the construction of a cap over the entire 5 acre site property. The cap will be constructed of a geosynthetic clay liner placed over prepared on-site soils which will then be overlayed with 18 inches of clean imported fill. The final surface will be hydroseeded with a low

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

maintenance mix to prevent erosion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/30/1999
Comments: Agricultural chemical formulating, packaging, & warehousing plant. Contaminants include DDT, chloroform, xylene, dieldrin, 1,2-DCA, dinoseb, toxaphene, alpha BHC, beta BHC, gamma BHC, and aldrin.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 06/30/1993
Comments: Remedial Investigation/Feasibility Study approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/15/1991
Comments: VAPOR: the removal and treatment of an estimated 6,500 pounds of xylenes and ethylbenzene by soil vapor extraction completed in 1991.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/24/1990
Comments: The provision of an alternative water supply via City of Fresno water line extension and connection of approximately 63 residents

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/1989
Comments: Removal Action (DEMOL): Building demolition. Soil removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/10/1987
Comments: Site Screening Done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1984
Comments: Removal Action (SOIL): Soil removal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 09/23/2005
Comments: DTSC entered into an Operation and Maintenance Agreement with THAN that includes provisions for an Operation, Maintenance and Monitoring Plan.

Completed Area Name: PROJECT WIDE

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Completed Sub Area Name: Not reported
Completed Document Type: National Priority List Delisting Document
Completed Date: 08/24/2006
Comments: Completion of 30 day Public Comment Period in the National Register. Published in US EPA Environmental News Press release.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 08/20/2007
Comments: Approved Workplan for 5-Year Review

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/24/2007
Comments: Fact Sheet Reviewed, and Revised by DTSC PPS and circulated to Branch Chiefs for approval. Upon approval sent to RP for distribution

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 10/23/2008
Comments: DTSC approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2012
Comments: Single monitoring report, no comments required unless results identify necessary action to follow pursuant to contingency plan in O&M Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 06/03/2013
Comments: approval letter memorializing approval after reviews and revisions completed in february 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/11/2015
Comments: minor revision to be sent, approval of FYR done in letter of 6/11/2015
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/15/2013

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Comments: Report Submitted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 12/19/2014
Comments: Initial Cost Estimate for O&M-FA, new/revised estimate currently being developed as part of 2nd 5-yr review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 02/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 12/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 08/07/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/11/2015
Comments: Reviewed and approved on as part of the 2nd 5 Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/07/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Workplan
Completed Date: 01/26/2018
Comments: Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/27/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/31/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/16/2019
Comments: Approval letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/05/2019
Comments: approval letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/13/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/24/1997
Comments: RA -- A REMOVAL ACTION CONSISTING OF THE EXCAVATION, TRANS- PORTATION AND OFFSITE INCINERATION OF APPROXIMATELY 10 CY OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANIC CON- TAMINATED SOIL WAS COMPLETED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/07/1997
Comments: RAW A removal action workplan for removal of approximately Ten (10) cubic yards of pesticide contaminated soil was approved. A notice of exemption will be filed in accordance with the California Environmental Quality Act.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/12/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/08/1987

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Comments:	required implementation of Interim Remedial Measures consisting of the provision of an alternative water supply for those parties impacted by groundwater contamination and the complete investigation and remediation of the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	06/30/1999
Comments:	Intial Study and Negative Declaration for the Remedial Action Plan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	09/29/2005
Comments:	The land use controls include preclusion of sensitive uses, protection of cap, and a soil management plan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/27/2007
Comments:	Inspection Report to included in Final 5-Year Review Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	09/29/2005
Comments:	Completed
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Calsite:

Name:	T H AGRICULTURE & NUTRITION, L.L.C.
Address:	7183 EAST MCKINLEY AVENUE
City:	FRESNO
Region:	SACRAMENTO
Facility ID:	10280334
Facility Type:	NPRP
Type:	NPL SITE, RP-FUNDED
Branch:	CC
Branch Name:	CENTRAL CALIFORNIA
File Name:	Not reported
State Senate District:	01011985
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
NPL:	Listed
SIC Code:	28

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

SIC Name:	MANU - CHEMICALS & ALLIED PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	KSHADDY
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Region Water Control Board Name:	Not reported
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	29
State Senate District Code:	14
Facility ID:	10280334
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12161981
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05301985
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02101987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	DEMOL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	H20
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07241990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	THE EXTENSION OF THE FRESNO CITY WATER SYSTEM TO RESIDENTS IMPACTED BYGW CONTAMINATION. BULK OF WORK DONE 8/89 - 3/90 WITH SOME RESIDUALWORK DONE 7/90.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01051991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	VAPOR
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08151991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Removal Action Certification:	N
Activity Comments:	SOIL VAPOR EXTRACTION WITH THERMAL OXIDATION. CUBIC FEET PER MINUTEUNKNOWN.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301999
Est Person-Yrs to complete:	0
Estimated Size:	S
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	DES

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06282002
Est Person-Yrs to complete:	0.32000
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06302003
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	X
Action Included Fencing:	X
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	09302004
Revised Due Date:	04302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	11302034
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NOE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02201997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02071997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12241997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	10
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	EXCAVATION, TRANSPORTATION AND OFF-SITE INCINERATION OF APPROXIMATELY10 CUBIC YARDS OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANICCONTAMINATED SOIL.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	10280334
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	7183 EAST MCKINLEY AVENUE
Alternate City,St,Zip:	FRESNO, CA 93727

Background Info:

five named respondents on May 28, 1985. This order was superseded by a new I or SE and RAO issued by DTSC to four respondents on January 23, 1987. This new Order was subsequently amended on May 8, 1987 and January 1, 1991.

The 1987 Order was very detailed and required implementation of Interim Remedial Measures consisting of the provision of an alternative water supply for those parties impacted by groundwater contamination and the complete investigation and remediation of the site. This Order, as amended, is still in force.

As part of the investigation of the site, a comprehensive chemical inventory was prepared. The inventory attempted to identify all chemicals handled at the site including but not limited to: active ingredients in pesticide formulation; inert ingredients in pesticide formulations; carrier solvents; laboratory chemicals; and chemical constituents present in trade name products handled at the facility. More than 500 individual chemical compounds were identified in the inventory.

More than 1,400 soil samples were collected during the Remedial Investigation (RI) conducted at the site. These samples were analyzed for up to 215 organic chemicals, 13 priority pollutant metals, and other selected inorganic chemicals. Eighty-five chemicals were identified in one or more of the soil samples collected. These eighty-five chemicals were screened for inclusion in a list of chemicals of concern (COCs) for subsequent evaluation in a baseline risk assessment and for the ultimate identification of remediation goals.

More than 1,800 groundwater samples were collected from groundwater monitoring, domestic and irrigation wells at or near the site during the RI. Up to 196 chemicals were analyzed for in those groundwater samples. Sixty-six organic and inorganic chemicals were detected at least once in the groundwater samples collected.

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Between 1984 and 1991, four removal actions (RAs) were conducted at the site. These included: the excavation and disposal of approximately 14,700 cubic yards of contaminated soil and debris in 1984; the demolition of five on-site structures and soil excavation from beneath them resulting in the off-site disposal of 5,100 tons of chemically-affected building debris and 10,000 cubic yards of contaminated soil in 1989; the provision of an alternative water supply via City of Fresno water line extension and connection of approximately 63 residents in 1990; and the removal and treatment of an estimated 6,500 pounds of xylenes and ethylbenzene by soil vapor extraction completed in 1991.
In addition, a small removal action consisting of the excavation and off-site incineration of approximately 10 cubic yards of pesticide contaminated soil from a small drainage system was completed in 1997.
DTSC approved the final RI/FS report for the site in June of 1993.
DTSC approved a final Remedial Action Plan (RAP) for the site in June 1999. The remedy selected in the RAP consist of natural attenuation of the chemicals of concern (COCs) in groundwater, the construction of a cap on-site, administrative controls limiting use of and access to the site, the continued monitoring of groundwater and contingencies for response actions should the monitoring indicate an increase of concentration of COCs in groundwater above prescribed action levels.
The T H Agriculutre & Nutrition, L.L.C. (THAN) site is located in a rural residential area east of the City of Fresno. The site consists of a 5-acre parcel which was utilized by a succession of owners for the formulation, packaging and warehousing of agricultural chemicals between 1951 and 1981. The plant was completely closed in 1983. The 5-acre facility is surrounded on the south, east and west by an additional 20 acres owned by THAN that has historically been planted with almond trees and grape vines.
The THAN site is listed on the U.S. Environmental Protection Agency's National Priority List, But the California Department of Toxic Substances Control (DTSC) has been designated as the lead agency for conducting oversight of the responsible party's remediation activities at the site.
Historically, site facilities consisted of a main brick plant building connected to a wooden warehouse, an office building and various outbuildings and storage areas. A second warehouse (stee was constructed by THAN in 1971. Five of the on-site buildings were demolished in 1989 in accordance with a DTSC approved Removal Action (RA) workplan. Currently there are three primary structures present on-site; the steel warehouse, the office building and a pump house.
DTSC issued a Determination of Imminent or Substantial Endangerment and Remedial Action Order (I or SE and RAO) to

Comments Date: 01231987
Comments: Second Determination of Imminent or Substantial Endangerment and
Comments Date: 01231987
Comments: Remedial Action Order issued by DTSC superseding the first Order.
Comments Date: 02071997
Comments: RAW A removal action workplan for removal of approximately
Comments Date: 02071997
Comments: Ten (10) cubic yards of pesticide contaminated soil was

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Comments Date:	02071997
Comments:	approved. A notice of exemption will be filed in accordance
Comments Date:	02071997
Comments:	with the California Environmental Quality Act.
Comments Date:	02101987
Comments:	Site Screening Done.
Comments Date:	02201997
Comments:	CEQA/NOE -- A Notice of Exemption under CEQA was signed for a
Comments Date:	02201997
Comments:	small removal action involving ten cubic yards of pesticide
Comments Date:	02201997
Comments:	contaminated soil.
Comments Date:	03041982
Comments:	Questionnaire sent.
Comments Date:	05281985
Comments:	First Determination of Imminent or Substantial Endangerment and
Comments Date:	05281985
Comments:	Remedial Action Order issued by DTSC.
Comments Date:	05301990
Comments:	Removal Action (H20): Bottled water provided. Waterline
Comments Date:	05301990
Comments:	connected.
Comments Date:	06282002
Comments:	DES - The final design for site soils was approved. The approved
Comments Date:	06282002
Comments:	design entails the removal of two on-site structures, the
Comments Date:	06282002
Comments:	abandonment of several monitoring wells that are no longer
Comments Date:	06282002
Comments:	needed, and the construction of a cap over the entire 5 acre site
Comments Date:	06282002
Comments:	property. The cap will be constructed of a geosynthetic clay
Comments Date:	06282002
Comments:	liner placed over prepared on-site soils which will then be
Comments Date:	06282002
Comments:	overlayed with 18 inches of clean imported fill. The final
Comments Date:	06282002
Comments:	surface will be hydroseeded with a low maintenance mix to prevent
Comments Date:	06282002
Comments:	erosion.
Comments Date:	06301989
Comments:	Removal Action (DEMOL): Building demolition. Soil removal.
Comments Date:	06301993
Comments:	Remedial Investigation/Feasibility Study approved.
Comments Date:	06301999
Comments:	A Remedial Action Plan was approved for the site. The RAP
Comments Date:	06301999
Comments:	identifies a soil remedy consisting of a cap along with
Comments Date:	06301999
Comments:	administrative controls (deed restriction, O & M, fencing).
Comments Date:	06301999
Comments:	For groundwater a remedy consisting of monitored natural
Comments Date:	06301999
Comments:	attenuation will be utilized. The remedy includes provisions
Comments Date:	06301999
Comments:	for contingent extraction with treatment as necessary of ground-
Comments Date:	06301999

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Comments:	water to ensure the protection of public health.
Comments Date:	06301999
Comments:	Not reported
Comments Date:	06301999
Comments:	CEQA -- A Notice of Determination was signed along with the
Comments Date:	06301999
Comments:	approval of a negative declaration associated with the approval
Comments Date:	06301999
Comments:	of a RAP.
Comments Date:	06302003
Comments:	RMDL--Final remedial action consisting of construction of a
Comments Date:	06302003
Comments:	composite clay and vegetated soil cap was completed. The final
Comments Date:	06302003
Comments:	remedial action also includes monitored natural attenuation of
Comments Date:	06302003
Comments:	impacted groundwater which has been in place since RAP approval
Comments Date:	06302003
Comments:	(6/30/1999).
Comments Date:	07151991
Comments:	Removal Action (VAPOR): Soil vapor extraction.
Comments Date:	07191982
Comments:	Questionnaire Received: Currently owned by Thompson-Hayward.
Comments Date:	07251991
Comments:	Agricultural chemical formulating, packaging, & warehousing
Comments Date:	07251991
Comments:	plant. Contaminants include DDT, chloroform, xylene,
Comments Date:	07251991
Comments:	dieldrin, 1,2-DCA, dinoseb, toxaphene, alpha BHC, beta BHC,
Comments Date:	07251991
Comments:	gamma BHC, and aldrin.
Comments Date:	09301984
Comments:	Removal Action (SOIL): Soil removal.
Comments Date:	12161981
Comments:	Facility Identified: Phone Book (AKA: Olin Corp).
Comments Date:	12161981
Comments:	RWQCB & HWMB/Enforcement handling site investigation.
Comments Date:	12211981
Comments:	Abandoned Site Program (ASP) Records Search: Sacto files.
Comments Date:	12241997
Comments:	RA -- A REMOVAL ACTION CONSISTING OF THE EXCAVATION, TRANS-
Comments Date:	12241997
Comments:	PORTATION AND OFFSITE INCINERATION OF APPROXIMATELY 10
Comments Date:	12241997
Comments:	CY OF ORGANOCHLORINE PESTICIDE AND VOLATILE ORGANIC CON-
Comments Date:	12241997
Comments:	TAMINATED SOIL WAS COMPLETED.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009106220
ID Name:	HWIS IDENTIFICATION CODE
ID Value:	CAD980636161
ID Name:	BEP DATABASE PCODE
ID Value:	P11082
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD981616303
ID Name:	CALSTARS CODE
ID Value:	100146

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

Alternate Name: DEPESTER WESTERN, INC
Alternate Name: OLIN CORPORATION
Alternate Name: THOMPSON HAYWARD CHEMICAL COMPANY
Alternate Name: THAN
Alternate Name: THOMPSON HAYWARD AG & NUTRITION COMPANY
Alternate Name: T H AGRICULTURE AND NUTRITION CO. INC.
Alternate Name: T H AGRICULTURE & NUTRITION CO, INC.
Alternate Name: T.H. AGRICULTURE & NUTRITION CO, INC.
Alternate Name: T H AGRICULTURE & NUTRITION, L.L.C.
Alternate Name: Not reported
Special Programs Code: MSCA
Special Programs Name: MULTI-SITE COOPERATIVE AGREEMENT

DEED:
Name: T H AGRICULTURE & NUTRITION, L.L.C.
Address: 7183 EAST MCKINLEY AVENUE
City,State,Zip: FRESNO, CA 93727
Envirostor ID: 10280334
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/29/2005
File Name: Envirostor Land Use Restrictions

CA BOND EXP. PLAN:
Reponsible Party: NPL SITE CLEANUP WORKPLAN
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc: THAN has, to date, funded all remedial activities at the site. Successive owners at the site included Ciba-Geigy Corporation, Olin Corporation, De Pester Western, Inc. (Nevada), De Pester Western, Inc. (California) and THAN. The status of agreementsbetween THAN and other responsible parties is unknown. THAN has indicated continued interest in funding future RI/FS work. EPA has informed DHS and THAN that a RI/FS work plan would be developed independently by EPA's contractor should THAN violate any condition of the order. The Department has budgeted $600,000 for direct costs associated with the site. If bond monies are used, DHS will undertake appropriate cost recovery actions.
Site Description: The THAN site is located in a rural residential area of 2 to 100 acre parcels. The site comprises 5 acres within 25 acres owned by THAN. From 1951 to 1981, a succession of owners operated a plant at the site for the formulation, packaging and warehousing of a variety of agricultural chemicals. The plant was completely closed in February, 1983. Extensive ground water contamination of the onsite shallow water bearing zone has been documented. Offsite contamination of nearby individual water wellshas also been verified, indicating movement of the plume toward the City of Fresno.
Hazardous Waste Desc: Over 350 toxic and hazardous chemicals and substances have been handled or formulated at the site. Over 20 contaminants have been detected in onsite wells. These contaminants consist of solvents, pesticides and herbicides. Some of the chemicals havea demonstrated ability to migrate through soils into ground water.
Threat To Public Health & Env: The population served by ground water within a three mile radius of the plant is estimated at 30,000 to 35,000 people. There are an estimated 40 privately

T H AGRICULTURE & NUTRITION, L.L.C. (Continued) **S105960412**

owned domestic wells within a one-half mile radius of the plant and nine community water supply wells within 3 miles downgradient of the site. Detectable levels of 1,2-dibromo-3-chloropropane, dieldrin, chloroform, heptachlor, alpha benzene hexachloride (BHC) and gamma BHC have been found in an increasing number of privately owned wells sincemonitoring began in 1981. The Fresno area has been designated by EPA as having a sole-source aquifer for drinking water supply. The site poses a potential public threat to drinking water supplies.

Site Activity Status: The RWQCB and DHS have been working with THAN to accomplish site remediation. DHS adopted a determination of imminent and substantial endangerment and a remedial action order in May, 1985 that required THAN to address characterization and remediation of the site in accordance with EPA guidance documents (RI/FS format). The order also required development of an IRM for ground water. Both DHS and the RWQCB have been reviewing and commenting on the various reports submitted by THAN per the conditions of the order. The THAN site is listed on EPA's NPL; EPA has been involved in an advisory capacity. DHS reissued a Director's Order in February, 1987 that specified a monitoring well drilling program to characterize the ground water contaminant plume. The new order was amended in April, 1987. THAN is complying with the order and installed the required monitoring wells. Additionally, THAN has offered to fund connections of all impacted residences to the Fresno metropolitan water system. DHS iscurrently working with all involved agencies on implementation of this proposal. THAN has proposed demolition and removal of all onsite buildings previously involved with operations relating to the processing of ag-chemicals to occur late 1988 or early 1989. The Department has prepared all necessary environmental (CEQA) documents related to the demolition proposal.

CORTESE:

Name:	T H AGRICULTURE & NUTRITION, L.L.C.
Address:	7183 EAST MCKINLEY AVENUE
City,State,Zip:	FRESNO, CA 93727
Region:	CORTESE
Envirostor Id:	10280334
Global ID:	Not reported
Site/Facility Type:	FEDERAL SUPERFUND - DELISTED
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	01/12/2006
Site Code:	100146
Latitude:	36.764156
Longitude:	-119.65984
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

D11
ESE
1/2-1
0.853 mi.
4503 ft.

Relative:
Higher

Actual:
349 ft.

TH AGRICULTURE & NUTRITION CO INC
7183 E MC KINLEY AVE
FRESNO, CA 93727

Site 2 of 2 in cluster D

Delisted NPL **1000146275**
SEMS **CAD009106220**
RCRA-SQG
US ENG CONTROLS
US INST CONTROLS
CPS-SLIC
ROD
PRP
CUPA Listings
CERS

Delisted NPL:

EPA Region:	9
EPA ID:	CAD009106220
Site ID:	901128
Name:	T.H. AGRICULTURE & NUTRITION CO.
Address:	7183 E MCKINLEY AVE
City,State,Zip:	FRESNO, CA 93727
Federal Description:	N
Latitude:	36.764728
Longitude:	-119.660501
Deleted Date:	2006-08-21 00:00:00

SEMS:

Site ID:	0901128
EPA ID:	CAD009106220
Name:	T.H. AGRICULTURE & NUTRITION CO.
Address:	7183 E MCKINLEY AVE
Address 2:	Not reported
City,State,Zip:	FRESNO, CA 93727
Cong District:	19,22
FIPS Code:	06019
Latitude:	36.764728
Longitude:	-119.660501
FF:	N
NPL:	Deleted from the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1990-09-27 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

FF:	N
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1986-06-10 04:00:00
Finish Date:	6/10/1986 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	CQ
Action Name:	CLSOUT R
SEQ:	1
Start Date:	2005-09-29 04:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	1
Start Date:	2007-04-03 04:00:00
Finish Date:	9/30/2008 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	ND
Action Name:	DELETION
SEQ:	1
Start Date:	2006-07-11 04:00:00
Finish Date:	8/21/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-08-10 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	TU
Action Name:	NOID
SEQ:	1
Start Date:	2006-07-11 04:00:00
Finish Date:	7/11/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	2
Start Date:	2013-09-26 05:00:00
Finish Date:	9/26/2013 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	2004-06-24 04:00:00
Finish Date:	6/24/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1990-08-01 04:00:00
Finish Date:	8/1/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	3
Start Date:	2017-11-29 05:00:00
Finish Date:	9/26/2018 5:00:00 AM

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 05:00:00
Finish Date:	10/15/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	2
Start Date:	1991-12-20 05:00:00
Finish Date:	12/20/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0901128
EPA ID:	CAD009106220
Site Name:	T.H. AGRICULTURE & NUTRITION CO.
NPL:	D
FF:	N
OU:	00
Action Code:	EL
Action Name:	PRP CR

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

SEQ: 1
Start Date: 1985-09-03 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: St Ovrsght

Region: 09
Site ID: 0901128
EPA ID: CAD009106220
Site Name: T.H. AGRICULTURE & NUTRITION CO.
NPL: D
FF: N
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 1999-06-20 04:00:00
Finish Date: 6/20/1999 4:00:00 AM
Qual: R
Current Action Lead: St Ovrsght

Region: 09
Site ID: 0901128
EPA ID: CAD009106220
Site Name: T.H. AGRICULTURE & NUTRITION CO.
NPL: D
FF: N
OU: 01
Action Code: BF
Action Name: PRP RA
SEQ: 1
Start Date: 2002-06-28 04:00:00
Finish Date: 9/29/2004 4:00:00 AM
Qual: FR
Current Action Lead: St Ovrsght

Region: 09
Site ID: 0901128
EPA ID: CAD009106220
Site Name: T.H. AGRICULTURE & NUTRITION CO.
NPL: D
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-07-01 04:00:00
Finish Date: 7/1/1980 4:00:00 AM
Qual: Not reported
Current Action Lead: St Perf

RCRA-SQG:
Date Form Received by Agency: 19960901
Handler Name: TH AGRICULTURE & NUTRITION CO INC
Handler Address: 7183 E MC KINLEY AVE
Handler City,State,Zip: FRESNO, CA 93727

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

EPA ID:	CAD009106220
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	5
Mailing Address:	PO BOX 7797
Mailing City,State,Zip:	FRESNO, CA 93747
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name:	TH AGRICULTURE & NUTRITION CO INC
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800729
Handler Name: TH AGRICULTURE & NUTRITION CO INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 32532
NAICS Description: PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

SIte:
Name: T.H. AGRICULTURE & NUTRITION CO.
Address: 7183 E MCKINLEY AVE
Address 2: Not reported
City,State,Zip: FRESNO, CA 93727
Event Code: Not reported
Action Taken Date: 06/20/1999
EPA ID: CAD009106220
Action Name: Record of Decision
Action ID: 1
Operable Unit: 01
Contaminated Media: Soil
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1999
NPL Status: Deleted from the Final NPL
Superfund Alternative Agreement: N
Latitude: 36.764728
Longitude: -119.660501

Media:
EPA ID: CAD009106220
Contaminated Media: Soil
Action ID: 1

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728
Longitude:	-119.660501

EPA ID:	CAD009106220
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1999
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	N
Fiscal Year:	1999
NPL Status:	Deleted from the Final NPL
Superfund Alternative Agreement:	N
Latitude:	36.764728

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Longitude: -119.660501

EPA ID: CAD009106220
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1999
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1999
NPL Status: Deleted from the Final NPL
Superfund Alternative Agreement: N
Latitude: 36.764728
Longitude: -119.660501

EPA ID: CAD009106220
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1999
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1999
NPL Status: Deleted from the Final NPL
Superfund Alternative Agreement: N
Latitude: 36.764728
Longitude: -119.660501

US INST CONTROLS:
Name: T.H. AGRICULTURE & NUTRITION CO.
Address: 7183 E MCKINLEY AVE
Address 2: Not reported
City,State,Zip: FRESNO, CA 93727
EPA ID: CAD009106220
Action Name: Record of Decision
Action ID: 1
Operable Unit: 01
Actual Date: 06/20/1999
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: N
Fiscal Year: 1999
NPL Status: Deleted from the Final NPL
Superfund Alternative Agreement: N
Latitude: 36.764728

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Longitude: -119.660501

CPS-SLIC:

Name:	THAN
Address:	7183 E MCKINLEY AVE
City,State,Zip:	FRESNO, CA 93727-9707
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	05/12/2010
Global Id:	SLT5FQ384331
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	10280334
Latitude:	36.7648
Longitude:	-119.663
Case Type:	Cleanup Program Site
Case Worker:	DD
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	SLT5FQ038
File Location:	DTSC
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Regulatory oversight of the Site is provided by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). The Site was deleted from the National Priorities List (NPL) by the US. Environmental Protection Agency (EPA) in 2006 [EPA, 2006]. DTSC continues to provide regulatory oversight for maintenance of the site cap and for submittal of annual groundwater monitoring reports.

Click here to access the California GeoTracker records for this facility:

ROD:

Name:	T.H. AGRICULTURE & NUTRITION CO.
Address:	7183 E MCKINLEY AVE
City,State,Zip:	FRESNO, CA 93727
EPA ID:	CAD009106220
RG:	9
Site ID:	901128
Action:	GOVT ROD for PRP Remedy
Operable Unit Number:	ENTIRE SITE
SEQ ID:	1
Action Completion:	1999-06-20 00:00:00
NPL Status:	Deleted
Non NPL Status:	Not reported

PRP:

PRP Name:
NORTH AMERICAN PHILIPS CORP.
OLIN CORPORATION
SYNGENTA
SYNGENTA AG
T.H. AGRICULTURE & NUTRITION CO.

CUPA FRESNO:

Name:	TH AGRICULTURE & NUTRITION
Address:	7183 E MCKINLEY AVE
City,State,Zip:	FRESNO, CA 93727

TH AGRICULTURE & NUTRITION CO INC (Continued) **1000146275**

Region: FRESNO
Cross Street: TEMPERANCE
Facility ID: FA0268619
APM Number: 31006209
Program Element: UST REMOVAL/CLOSURE W/1 TANK

Name: TH AGRICULTURE & NUTRITION
Address: 7183 E MCKINLEY AVE
City,State,Zip: FRESNO, CA 93727
Region: FRESNO
Cross Street: TEMPERANCE
Facility ID: FA0268619
APM Number: 31006209
Program Element: CONTAMINATED SITE - MISC/DTSC LEAD

CERS:
Name: THAN
Address: 7183 E MCKINLEY AVE
City,State,Zip: FRESNO, CA 93727-9707
Site ID: 210851
CERS ID: SLT5FQ384331
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: JAN ALFSON - CENTRAL VALLEY RWQCB (REGION 5F)
Entity Title: Not reported
Affiliation Address: 1685 E STREET
Affiliation City: FRESNO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: T H AGRICULTURE & NUTRITION
Address: 7183 EAST MCKINLEY AVENUE
City,State,Zip: FRESNO, CA 93727-9707
Site ID: 497492
CERS ID: 110002634828
CERS Description: US EPA Air Emission Inventory System (EIS)

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRESNO	S123785057	FOWLER-MCKINLEY ELEMENTARY SCHOOL	NORTHEAST CORNER OF FOWLER AVE	93727	ENVIROSTOR, SCH
FRESNO	S126143205	PROPOSED TEMPERANCE ELEMENTARY SCH	WEST SIDE OF TEMPERANCE AVENUE	93727	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 61

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/20/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/30/2021
Number of Days to Update: 87
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/13/2021
Number of Days to Update: 88
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/14/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/14/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/19/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 85

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/26/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/05/2021
Number of Days to Update: 78
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78
Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/13/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82
Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/12/2021
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/22/2021
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 08/05/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 07/20/2021
Date Data Arrived at EDR: 07/20/2021
Date Made Active in Reports: 10/11/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 07/23/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 77

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/09/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 56

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 6

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/08/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/09/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/14/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2021
Next Scheduled EDR Contact: 11/28/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/14/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/14/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/14/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 80

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/20/2021
Date Data Arrived at EDR: 07/20/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ROCHA PROPERTY
SWC CLINTON AVENUE AND ARMSTRONG AVENUE
FRESNO, CA 93727

TARGET PROPERTY COORDINATES

Latitude (North):	36.771153 - 36° 46' 16.15''
Longitude (West):	119.674855 - 119° 40' 29.48''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	261260.0
UTM Y (Meters):	4072621.0
Elevation:	344 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5603160 CLOVIS, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

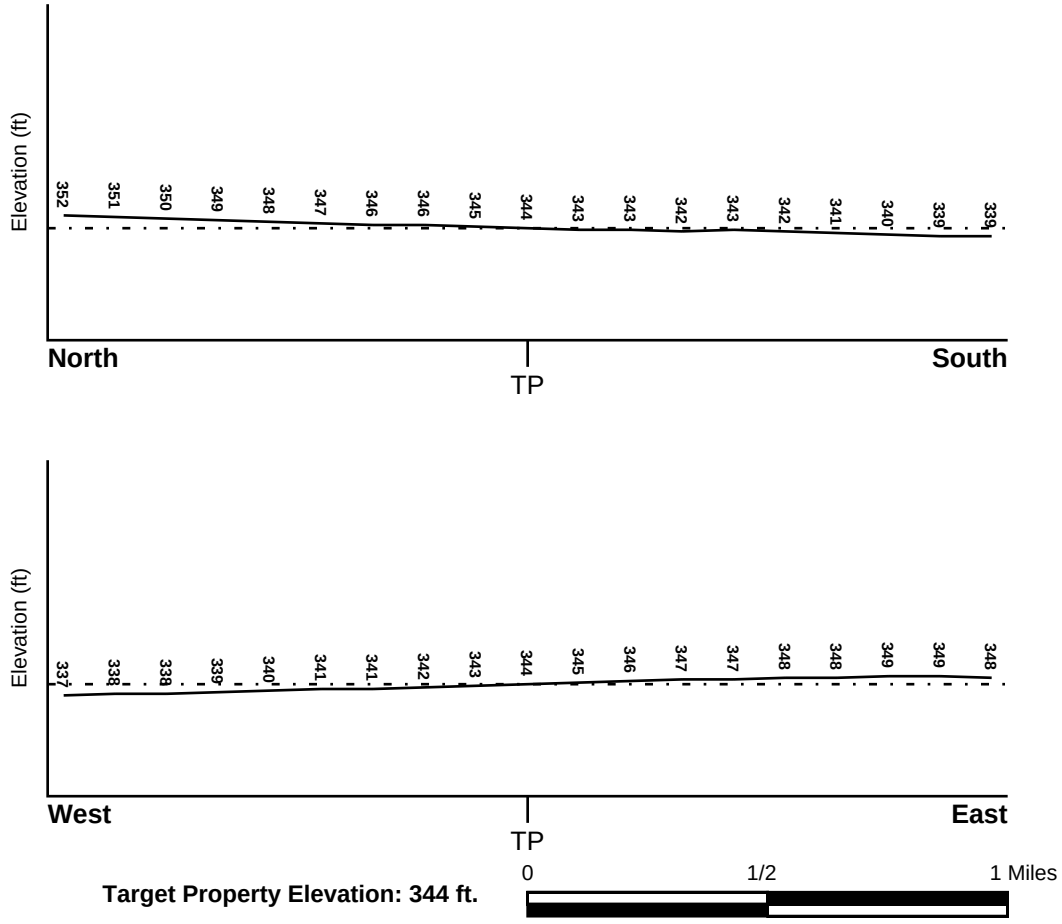
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 344 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06019C1595H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06019C1590H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CLOVIS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

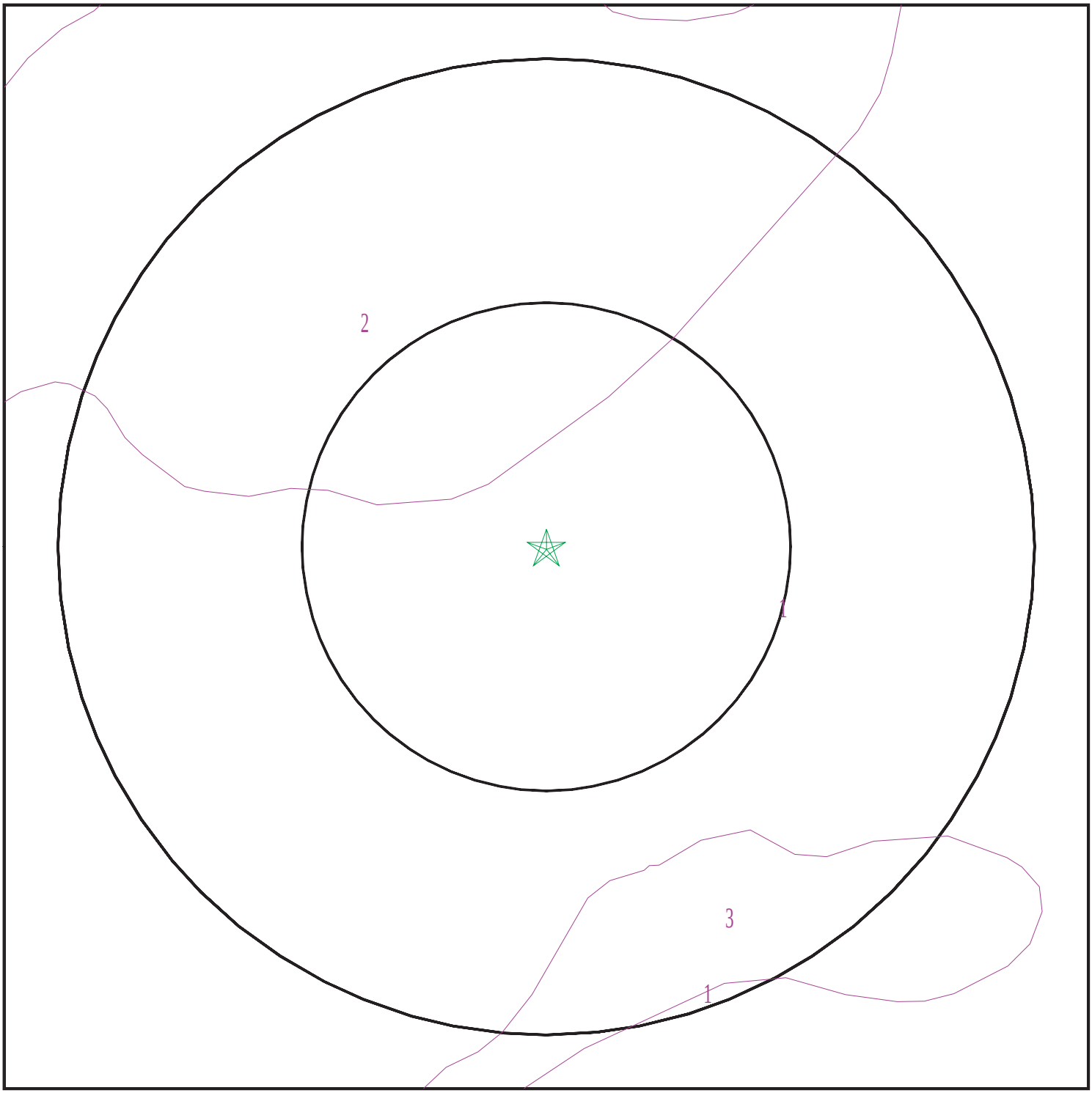
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6711411.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Rocha Property	CLIENT:	Krazan & Associates, Inc.
ADDRESS:	SWC Clinton Avenue and Armstrong Avenue Fresno CA 93727	CONTACT:	Laurie K Blakeman
LAT/LONG:	36.771153 / 119.674855	INQUIRY #:	6711411.2s
		DATE:	October 19, 2021 8:58 pm

Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	24 inches	38 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	38 inches	59 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	24 inches	40 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:
4	40 inches	53 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1 Min: 0.1	Max: Min:

Soil Map ID: 3

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	38 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
3	38 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000177437	1/4 - 1/2 Mile SE
A11	USGS40000177486	1/2 - 1 Mile West
13	USGS40000177477	1/2 - 1 Mile West
15	USGS40000177651	1/2 - 1 Mile North
16	USGS40000177378	1/2 - 1 Mile SE
E30	USGS40000177334	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

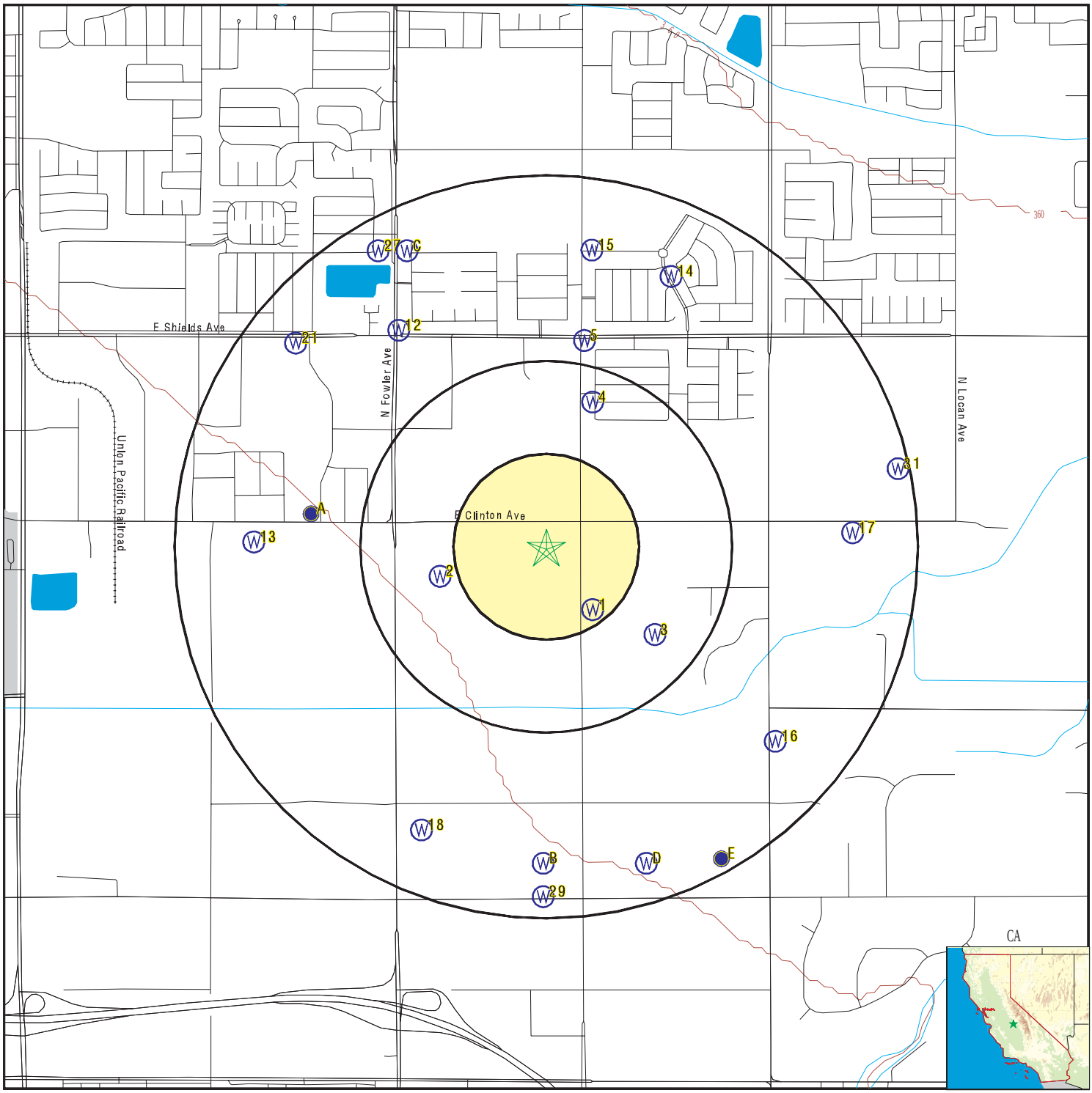
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADDW0000021730	1/8 - 1/4 Mile SE
2	CADWR9000030351	1/4 - 1/2 Mile WSW
4	CADDW0000016066	1/4 - 1/2 Mile NNE
5	CADWR9000030507	1/2 - 1 Mile North
A6	CALLNL000001148	1/2 - 1 Mile West
A7	11823	1/2 - 1 Mile West
A8	CADDW0000016423	1/2 - 1 Mile West
A9	CADDW0000014542	1/2 - 1 Mile West
A10	CAUSGSN00005702	1/2 - 1 Mile West
12	CADWR9000030511	1/2 - 1 Mile NW
14	CADPR0000003927	1/2 - 1 Mile NNE
17	CADWR9000030383	1/2 - 1 Mile East
18	CAEDF0000029692	1/2 - 1 Mile SSW
B19	CADWR0000038126	1/2 - 1 Mile South
B20	CADWR0000022680	1/2 - 1 Mile South
21	CADWR9000030501	1/2 - 1 Mile NW
C22	CAPFAS000001554	1/2 - 1 Mile NNW
C23	CADDW0000014146	1/2 - 1 Mile NNW
D24	CADWR0000027318	1/2 - 1 Mile SSE
D25	CADWR0000024029	1/2 - 1 Mile SSE
D26	CADWR0000020242	1/2 - 1 Mile SSE
27	CADWR9000030550	1/2 - 1 Mile NNW
E28	CADWR9000030217	1/2 - 1 Mile SSE
29	CADWR9000030209	1/2 - 1 Mile South
31	CADPR0000003193	1/2 - 1 Mile ENE
E32	CADWR0000022883	1/2 - 1 Mile SSE
E33	CADWR0000012242	1/2 - 1 Mile SSE
E34	CADWR0000007207	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 6711411.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Rocha Property	CLIENT:	Krazan & Associates, Inc.
ADDRESS:	SWC Clinton Avenue and Armstrong Avenue Fresno CA 93727	CONTACT:	Laurie K Blakeman
LAT/LONG:	36.771153 / 119.674855	INQUIRY #:	6711411.2s
		DATE:	October 19, 2021 8:58 pm

Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SE
1/8 - 1/4 Mile
Higher

CA WELLS **CADDW0000021730**

2
WSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000030351**

State Well #:	13S21E27M001M	Station ID:	14124
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

3
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000177437**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	013S021E27Q001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19610118	Well Depth:	92
Well Depth Units:	ft	Well Hole Depth:	196
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-10-21
Feet below surface:	28.91	Feet to sea level:	Not Reported
Note:	Not Reported		

4
NNE
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000016066**

5
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030507**

State Well #:	13S21E27C001M	Station ID:	34095
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A6
West
1/2 - 1 Mile
Lower

CA WELLS **CALLNL000001148**

Well ID:	101410	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	13S/21E-28H01 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Helium-4	Results:	.000000206847
Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Krypton	Results:	.0000000760114
Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Neon	Results:	.000000233952
Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Xenon	Results:	.000000010394
Units:	cm3STP/g	Date:	04/10/2003
Chemical:	Tritium (Hydrogen 3)	Results:	10.62
Units:	pCi/L	Date:	05/15/2003
Chemical:	Helium-3/Helium-4	Results:	.000000923131
Units:	atom ratio	Date:	04/10/2003
Chemical:	Argon	Results:	.000342302
Units:	cm3STP/g	Date:	04/10/2003

A7
West
1/2 - 1 Mile
Lower

CA WELLS **11823**

Seq:	11823	Prim sta c:	13S/21E-28H01 M
Frds no:	1010007235	County:	10
District:	11	User id:	AGE
System no:	1010007	Water type:	G
Source nam:	WELL 101	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	364622.0	Longitude:	1194105.0
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1010007	System nam:	Fresno, City Of
Hqname:	Not Reported	Address:	2326 FRESNO STREET

City:	FRESNO	State:	CA
Zip:	93721	Zip ext:	2988
Pop serv:	390350	Connection:	99005
Area serve:	CITY OF FRESNO		

A8
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000016423**

A9
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000014542**

A10
West
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00005702**

A11
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000177486**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	013S021E28H001M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19810603	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	520
Well Hole Depth Units:	ft		

12
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030511**

State Well #:	13S21E22N001M	Station ID:	34092
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

13
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000177477**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	013S021E28K001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19611122	Well Depth:	108
Well Depth Units:	ft	Well Hole Depth:	133
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-10-21
Feet below surface:	43.42	Feet to sea level:	Not Reported
Note:	Not Reported		

14
NNE **CA WELLS** **CADPR0000003927**
1/2 - 1 Mile
Higher

15
North **FED USGS** **USGS40000177651**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	013S021E22L001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560215	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	125
Well Hole Depth Units:	ft		

16
SE **FED USGS** **USGS40000177378**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	013S021E34A001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-10-21
Feet below surface:	27.33	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

17
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030383**

State Well #:	13S21E26L001M	Station ID:	14123
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

18
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000029692**

B19
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000038126**

B20
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000022680**

21
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030501**

State Well #:	13S21E28B001M	Station ID:	34096
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C22
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000001554**

C23
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000014146**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D24
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000027318**

D25
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024029**

D26
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020242**

27
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030550**

State Well #:	13S21E21R001M	Station ID:	34091
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

E28
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000030217**

State Well #:	13S21E34H002M	Station ID:	14129
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

29
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000030209**

State Well #:	13S21E34L001M	Station ID:	14130
Well Name:	Not Reported	Basin Name:	Kings
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E30
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000177334**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	013S021E34H001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1960	Well Depth:	156
Well Depth Units:	ft	Well Hole Depth:	156
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-10-21
Feet below surface:	28.13	Feet to sea level:	Not Reported
Note:	Not Reported		

31
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000003193**

E32
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000022883**

E33
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000012242**

E34
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000007207**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93727	20	0

Federal EPA Radon Zone for FRESNO County: 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 level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 93727

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.433 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix F

January 6, 2021 Project No. 014-21164

Mr. Brandon De Young
De Young Properties
677 West Palmdon Drive #208
Fresno, California 93704
cbd@deyoungproperties.com

RE: Report of Findings
Phase II Limited Site Assessment
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727

Dear Mr. De Young:

Pursuant to your request, Krazan & Associates, Inc. (Krazan) has conducted a Phase II Limited Site Assessment (LSA) at the referenced property (subject site). The work was based on the findings provided in Krazan's November 1, 2021 *Phase I Environmental Site Assessment (ESA)* prepared for De Young Properties (client). The work was conducted in connection with a proposed residential development and not at the request of a regulatory agency. Figure 1 is a vicinity map of the subject site.

BACKGROUND

During the course of the referenced Phase I ESA, Krazan identified no evidence of controlled recognized environmental conditions (CRECs) or historical RECs (HRECs) in conjunction with the subject site as defined by ASTM E 1527-13. However, the following evidence of recognized environmental conditions (RECs) and potential areas of concern (PAOCs) were identified in connection with the subject site:

RECs

According to the State Water Resources Control Board record dated June 1, 1988, one 1,800-gallon diesel fuel UST and one 1,000-gallon gasoline UST were installed at the subject site address in 1974. Mr. Anthony Rocha, the son of the owner of the subject site, confirmed that two fuel USTs were previously located approximately 40 feet to the east of the southern-most pole barn in the central-western portion of the subject site. Mr. Rocha, familiar with the subject site for 30+ years, indicated that the fuel dispensers associated with these two USTs were located directly above the USTs and that the fuel USTs were removed in the late-1980s. Mr. Rocha stated that there is no documentation related to the removal of the USTs and he indicated that no soil samples were collected beneath the USTs for analysis.

Krazan recommended that a Phase II Limited Subsurface Assessment (LSA) be conducted in the central-western portion of the subject site at the reported/inferred location of the former diesel fuel and gasoline USTs and fuel dispensers to assess the presence or absence of subsurface soil impacts from petroleum hydrocarbon constituents, including a soil gas survey.

A steel-plate covered subsurface mechanics pit was observed in the central southern portion of the on-site shop/storage building which was covered with stored materials. Due to access limitations, Krazan's assessor was not able to ascertain the overall structural integrity of the mechanic's pit or if cracks could be seen on the surface. Consequently, the condition of the mechanic's pit floor, overall structural integrity or evidence of a release of hazardous materials could not be ascertained. Therefore, the condition of the subsurface surrounding the mechanic's pit in regards to potential releases of historical automobile repair and servicing constituents of concern is unknown.

Krazan recommended that the condition of the mechanic's pit be assessed by an environmental professional by conducting a Phase II LSA with the collection and analysis of samples in the area surrounding the mechanic's pit to assess impacts from historical use of this area or automobile or farm implement repair and servicing.

During Krazan's October 21, 2021 site reconnaissance, significant surface staining and/or discolored surface soil was observed at three locations within the northwestern portion of the subject site. At each of these locations, apparent hazardous materials surface impacts and/or potential subsurface hazardous materials impacts were noted.

Krazan recommended that the impacted soil adjacent to the hazardous materials storage area be characterized by sampling and analysis, removed, placed in drums, and properly disposed off-site.

PAOCs

Krazan's review of an aerial photograph of the subject site taken in 1937 indicates that the central portion of the subject site was occupied by a rural residence, including a dwelling and at least one small outbuilding in a location consistent with the existing residential dwelling, and the central-southern portion of the subject site was occupied by three structures which may have been a second residential area or were outbuildings associated with the dwelling located in the central portion of the subject site. The remainder of the subject site appears to have been utilized for agricultural purposes in 1937. The three structures located in the central-southern portion of the subject site were present through 1962; however, all of these structures had been removed from the subject site prior to 1967. Historical uses of the subject site prior to 1937 were not reasonably ascertainable utilizing the standard historical references consulted during the referenced Phase I ESA, and it is therefore unknown how long the rural residential/barn/outbuilding structures were located on the subject site prior to 1937.

The status of the structures historically located in the central-southern portion of the subject site relative to the potential presence of USTs may exist based on the absence of any regulatory, municipality, and/or interview data, or other evidence indicating their presence or location. Since the central-southern portion of the subject site has been cultivated with various crops since at least 1967, the possibility exists that subsurface features such as USTs would have been discovered at the time of cultivation; however, there was no available data to support this presumption. Consequently, despite an absence of data suggesting their presence, the presence or absence of USTs associated with on-site structures in a historical agricultural setting on the subject site prior to the current owner's familiarity with the subject site is unknown.

Krazan recommended that a Phase II limited subsurface survey be conducted in the inferred area of the former on-site structures previously located in the central-southern portion of the subject site to assess the presence or absence of subsurface metallic anomalies characteristic of USTs or other subsurface features of concern.

PURPOSE

The purpose of the Phase II LSA was to assess constituents of potential concern (COPCs) in soil and soil gas associated with former USTs; assess the potential for USTs and/or subsurface metallic anomalies associated with USTs or related fuel dispensing features in the vicinity of the former on-site structures; assess COPCs in soil associated with hazardous material storage area surface staining; and assess COPCs in soil associated with the mechanics pit.

SCOPE OF WORK

Pre-Field Activities

Krazan prepared a site-specific health and safety plan (HASP). Krazan's Site Safety standard operating procedures were followed, which included Level D personal protective equipment. Underground service alert (USA) North, was contacted for marking of utilities. USA North marked to property boundaries as a matter of policy, and did not mark privately held property.

Field Activities

Krazan standard operating procedures (SOPs) were implemented for sample collection, sample equipment decontamination, sample storage, transport, hold times, and chain-of-custody documentation.

Potential USTs

A Limited Subsurface Survey (LSS) was be conducted on the subject property using ground penetrating radar and electromagnetic equipment in the inferred areas of the former on-site structure and to clear soil boring locations of potential subsurface utilities. Anomalies were exposed using hand tools. Figure 2 illustrates the approximate extent of the LSS.

Former USTs

Using a GeoProbe direct-push drill rig, two (2) soil borings (B1 and B2) were completed in the vicinity of the former USTs. Soil borings associated with the former USTs were drilled to a maximum depth of 15 feet bgs. Soil samples were collected at 10 and 15 feet below ground surface (bgs) from each soil boring associated with the former USTs. Figure 3 illustrates the approximate sample locations.

Soil samples associated with the former USTs were collected in laboratory approved containers. Soil samples collected at 15 feet bs were analyzed by a State-approved laboratory for the following COPCs:

- Total petroleum hydrocarbons - carbon chain (TPH-cc) by EPA Method 8015B;
- Volatile organic compounds (VOCs) by EPA Method 8260B/5035; and,
- Total Lead by EPA Method 6010B.

Two (2) soil gas probes (SG1 and SG2) were installed and sampled using field procedures consistent with the Advisory – Active Soil Gas Investigations published in July 2015 by the DTSC and the Los Angeles and San Francisco Regional Water Quality Control Boards at the former USTs. The approximately 1.5-inch-diameter soil gas probes/borings were completed to a depth of 5.5 feet bgs in the vicinity of the reported UST. The soil gas probe/borings were advanced using a solid metal rod hammered to the desired depth. Soil gas probes were constructed with 1/4-inch outside diameter Teflon tubing connected to a porous

gas probe tip and end cap. The probe tip was placed in the middle of a one-foot-thick sand pack. Approximately one (1) foot of granular dry bentonite was placed on top of the sand pack and the remainder of the soil gas well was backfilled with hydrated bentonite. The soil gas borings/probes were allowed to equilibrate for a minimum of two (2) hours prior to purging and sampling. A leak test was conducted prior to purging and sampling of each soil gas well. Using a Magnehelic® gauge, the sample-train was held under a vacuum of at least 100 inches of water for a minimum of one minute without significant loss of vacuum. Following a successful leak test, a minimum of three (3) purge volumes of soil gas were purged using a Sensidyne® Gilian BDXII pump set at approximately 150 milliliters per minute (mL/min). Well volumes were calculated using the length and inside diameter of the tubing and the soil boring diameter and the height of the sand pack and dry bentonite (both at approximately one-foot). Default parameters of sand and dry bentonite porosity were used. Following the purging at each soil gas well, the gas wells were sampled using laboratory supplied equipment. Each soil gas sample was collected using a manifold set at 150 mL/min to draw the soil gas into a one-liter Summa canister. A tracer gas, dichloroethane (1,1-DFA), was used to ensure ambient air did not infiltrate the soil gas sample. The Teflon tubing was removed following the soil gas sample collection activities.

Two (2) soil gas samples were analyzed by a State-approved laboratory for the following COPCs:

- VOCs by EPA Method TO-15.

Hazardous Materials Storage Area Staining

Asphalt and concrete were cored using GeoProbe equipment to expose soils at soil borings B3, B4 and B5. Soil borings B3 and B4 were drilled inside a wooden storage building located at the northwest corner of the northern pole barn. This area appeared to be utilized for the storage of agricultural chemicals. Soil boring B5 was drilled under the canopy-covered northwest corner of the shop/storage building. This area exhibited heavy hydrocarbon staining on the concrete surface. Soil borings B3, B4 and B5 were drilled to a maximum depth of three (3) feet bgs. Soil samples were collected between six (6)-inches and one (1) foot bgs and 2.5 feet and three (3) feet bgs from each soil boring.

The four (4) soil samples associated with the stained areas inside the wooden storage building were collected in laboratory-approved containers and analyzed by a State-approved laboratory for the following COPCs:

- CAM 17 metals by EPA Methods 6010B/7471A; and,
- Organochlorine pesticides (OCPs) by EPA Method 8081A.

The two (2) soil samples associated with the canopy-covered stained area were collected in laboratory-approved containers and analyzed by a State-approved laboratory for the following COPCs:

- TPH-cc by EPA Method 8015B;
- VOCs by EPA Method 8260B/5035;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C; and,
- CAM 17 metals by EPA Methods 6010B/7471A.

Post-Field Activities

Following completion of the field and laboratory investigation activities, Krazan prepared this Report of Findings (Report).

APPLICABLE REGULATORY AGENCY REFERENCES

Krazan's evaluation of the results and findings associated with the soil and soil gas sampling included referencing the Revised January/July 2019 San Francisco Regional Water Quality Control Board's (SFRWQCB) ESLs referenced in the technical document titled, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. According to the RWQCB's 2007 document, ESLs are considered to be conservative. Under most circumstances and within limits described by the SFRWQCB, the presence of a chemical in soil or soil gas at concentrations below the corresponding ESL (Residential Exposure or Commercial/Industrial Exposure) for the respective constituent can be assumed not to pose a significant, long-term (chronic) threat to human health and the environment.

REPORT OF FINDINGS

Potential USTs

The LSS identified one (1) anomaly located in the south-central portion of the site. Shallow pot-hole excavations within the anomaly did not reveal evidence of a UST.

Former USTs

Soils encountered/collected during the assessment of the former UST were course-grained sands and silty sands. Soils were loose to medium-dense, moist with no physical evidence of impacts from COPCs.

As shown on Table 1, total petroleum hydrocarbons in the gasoline (TPH-g), diesel (TPH-d) or motor-oil (TPH-mo) range and total lead were not detected at or above the laboratory's reporting limits (RLs) in soil collected from soil borings B1 and B2 at 15 feet bgs.

As shown on Table 2, VOCs were not detected at or above the laboratory's reporting limits (RLs) in soil collected from soil borings B1 and B2 at 15 feet bgs. The RL for the VOC 1,2-Dibromo-3-chloropropane set between 0.0050 milligrams per kilogram (mg/kg) and 0.0079 mg/kg is above its corresponding residential cancer risk ESL set at 0.0044 mg/kg. Based on discussion with the laboratory, this VOC was not detected at or above the laboratory's method detection limit (MDL) set between 0.00045 mg/kg and 0.00070 mg/kg, which is below its corresponding ESLs.

As shown on Table 3, eight (8) VOCs were detected in soil gas above the laboratory MDLs. No other VOCs in soil gas were detected at or above the laboratory's MDLs. These detected concentrations of VOCs in soil gas are below their corresponding residential ESLs, where established.

Mechanics Pit

As discussed previously in this report, due to the inaccessibility of the mechanics pit, the proposed assessment of this feature was not conducted.

Hazardous Materials Storage Area Staining

Soils encounter/collected during the assessment of the stained areas were course-grained sands and silty sands. Soils were loose and dry with no physical evidence of impacts from COPCs.

Wooden Storage Building Soil Borings B3 and B4

As shown on Table 4, dichlorodiphenyldichloroethylene (4,4-DDE) was detected above the laboratory's RL of 0.0050 milligrams per kilogram (mg/kg) in soil samples B3-0.5 and B4-0.5 at 0.0096 mg/kg and 0.015 mg/kg, respectively. These detected concentrations are below their corresponding ESL of 1.8 mg/kg. No other OCPs analyzed were detected at or above the laboratory's RLs.

As shown on Table 5, eight (8) of the CAM-17 metals were detected at or above the laboratory's RLs. These detected concentrations are below their corresponding residential ESLs, where established. The RLs for arsenic and thallium set at 5.0 mg/kg are above their corresponding ESLs set between 0.067 mg/kg to 2.0 mg/kg for arsenic and 0.78 mg/kg and 3.5 mg/kg for thallium.

Canopy-Covered Stained Area Soil Boring B5

As shown on Table 1, TPH-g, TPH-d or TPH-mo and total lead were not detected at or above the laboratory's RLs in soil collected from soil boring B5.

As shown on Table 2, VOCs were not detected at or above the laboratory's RLs in soil collected from soil boring B5. The RLs for the VOC 1,2-Dibromo-3-chloropropane set between 0.0045 mg/kg and 0.0056 mg/kg is above its corresponding residential cancer risk ESL set at 0.0044 mg/kg. Based on discussion with the laboratory, this VOC was not detected at or above the laboratory's MDL set between 0.00041 mg/kg and 0.00050 mg/kg, which is below its corresponding ESLs.

As shown on Table 5, eight (8) of the CAM-17 metals were detected at or above the laboratory's RLs. These detected concentrations are below their corresponding residential ESLs, where established. The RLs for arsenic and thallium set at 5.0 mg/kg are above their corresponding ESLs set between 0.067 mg/kg to 2.0 mg/kg for arsenic and 0.78 mg/kg and 3.5 mg/kg for thallium.

As shown on Table 6, SVOCs were not detected at or above the laboratory's RLs. Due to matrix interference, soil sample B5-0.5 were diluted by a factor of 10. The dilution raised the RLs for 13 of the 71 SVOCs above their corresponding ESLs, where established. Additionally, soil sample B5-2.5, which did not require dilution, also has four (4) SVOCs with RLs above their corresponding ESLs, where established.

Krazan reviewed the laboratory MDLs for these 13 SVOCs with RLs above their corresponding ESLs for the diluted soil sample B5-0.5. Nine (9) of the 13 SVOCs have MDLs below their corresponding ESLs. Four (4) SVOCs; benzo(a)pyrene (MDL of 0.38 mg/kg), bis(2-chloroethyl)ether (MDL of 0.45 mg/kg), dibenz(a,h)anthracene (MDL of 0.40 mg/kg), and hexachlorobenzene (MDL of 0.55 mg/kg) have MDLs above their corresponding ESLs for the residential cancer scenario which are set at 0.11 mg/kg, 0.10 mg/kg, 0.11 mg/kg, and 0.18 mg/kg, respectively.

The four (4) SVOCs with RLs above their corresponding ESLs associated with soil sample B5-2.5 (which was not diluted) are benzo(a)pyrene (MDL of 0.038 mg/kg), bis(2-chloroethyl)ether (MDL of 0.045 mg/kg), dibenz(a,h)anthracene (MDL of 0.040 mg/kg), and hexachlorobenzene (MDL of 0.055 mg/kg). These non-diluted MDLs are below their corresponding ESLs for the residential cancer scenario which are set at 0.11 mg/kg, 0.10 mg/kg, 0.11 mg/kg, and 0.18 mg/kg, respectively.

Discussion of Arsenic and Thallium

The laboratory RLs for arsenic and thallium are set at 5.0 mg/kg, which are above their corresponding ESLs as discussed above. Based on the referenced study, the California Department of Toxic Substances Control (DTSC) considers natural background concentrations in California for arsenic and thallium at 12,7 mg/kg and 25.0 mg/kg, respectively.[1] Therefore, the potential presence of arsenic and thallium below 5.0 mg/kg in subject site soils would not appear to represent an environmental concern for the subject site.

CONCLUSIONS AND RECOMMENDATIONS

The LSS did not reveal evidence of USTs or related subsurface metallic features of concern. Additionally, based on the laboratory analytical reports for the soil and soil gas samples collected and analyzed, there was no evidence of significant impacts from COPCs in the locations assessed when compared to established ESLs. No further assessment appears to be warranted.

Based on communications during Krazan's Phase I ESA with the property owner in regards to the mechanics pit, it was reported that the mechanics pit was seldomly used. The potential for significant impacts from COPCs to subsurface soils below the concrete-lined mechanics pit appears low. Krazan recommends that once this feature has been removed at a minimum a visual assessment of the surface soils in the vicinity of the mechanics pit should be conducted.

LIMITATIONS

The findings of this report were based upon the results of our field investigation and reported client excavation information, along with the interpretation of subsurface conditions associated with the limited subsurface survey. Therefore, the data are accurate only to the degree implied by review of the data obtained and by professional interpretation.

This subsurface investigation of the subject site has been limited in scope. This type of assessment is undertaken with the calculated risk that the presence, full nature, and extent of contamination would not be revealed by methods employed. Therefore, no warranty is given; either expressed or implied that hazardous material contamination or buried structures, which would not have been disclosed through this investigation, do not exist at the subject site. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used. Matters related to reporting to regulators of subsurface conditions revealed by this investigation are the responsibility of the property owner and, if guidance is desired, legal counsel should be consulted.

The limited subsurface survey equipment is considered a state-of-the-art technology that is effective within certain limitations for the investigation of buried features such as septic tanks, fuel bunkers, USTs, and/or piping in areas accessible at the time of the investigation. In uncommon or atypical cases where bunkers or tanks are buried at depths greater than two (2) feet bgs and/or which may be covered by layers of pavement cumulatively in excess of two to four inches in thickness, rock, gravel or aggregate layers, dense (clayey) soils, or other surface or subsurface metallic objects (such as motor vehicles, fencing, piping, conduit or rebar) that can interfere with the electrical transmission/reception of the equipment, the equipment's technical capabilities can be exceeded to a degree where the presence of a UST or other metallic feature could not be detected. No guarantee is made or implied that the subsurface survey will detect suspected

[1] Hunter, P. et Al., *Inorganic Chemicals in Ground Water and Soil: Background Concentrations at California Air Forces Bases*, dated March 10, 2005.

metallic features under uncommon or atypical circumstances as described above, or that the discovery of underground piping or conduit commonly found underlying commercial properties in and of itself is evidence of the presence of USTs. It should be understood that the location of subsurface objects and utilities is dependent upon the recognition of physical phenomena at the ground surface. These phenomena can be magnetic fields or electromagnetic waves that give rise to a surface expression which in turn is interpreted as representative of subsurface objects. These waves, however, may be attenuated and/or distorted by a number of factors including soil moisture, corrosion, and proximity to other surface and subsurface facilities. The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. We do not warrant that such data cannot be superseded by future geotechnical, environmental, or technical developments.

The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. We do not warrant that such data cannot be superseded by future geotechnical, environmental, or technical developments. This assessment and report were authorized by and prepared for the exclusive use of our Client. Unauthorized use of or reliance on the information contained in this report without the expressed written consent of Krazan & Associates, Inc. is strictly prohibited.

CLOSING

We appreciate the opportunity to be of service. If you have any questions regarding this report or if we can be of further assistance, please feel free to contact the undersigned at 559-348-2200.



Respectfully Submitted,
KRAZAN & ASSOCIATES, INC.

Mark D. Edwards, PG 7714, HG 1072
Project Manager

Jason R. Paul, PG 7557
Regional Environmental Manager

MDE/JRP/mlt

Attachments:
Table 1 –Soil Sample Results, Total Petroleum Hydrocarbons and Total Lead
Table 2 –Soil Sample Results, Volatile Organic Compounds
Table 3 –Soil Gas Sample Results, Detected Volatile Organic Compounds
Table 4 –Soil Sample Results, Organochlorine Pesticides
Table 5 –Soil Sample Results, California Metals - 17
Table 6 –Soil Sample Results, Semi-Volatile Organic Compounds
Figure 1 – Vicinity Map
Figure 2 – Limited Subsurface Survey Map
Figure 3 – Sample Location Map
Appendix A – Purge Calculation Sheet
Appendix B – Laboratory Analytical Reports

TABLE 1
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sample Results
Total Petroleum Hydrocarbons and Total Lead
(Concentrations are expressed in milligrams per kilogram [mg/kg], unless otherwise noted)

Sample No.	TPH-g	TPH-d	TPH-mo	Total Lead
B1-15	*< 10*	*< 10*	*< 10*	*< 3.0*
B2-15	*< 10*	*< 10*	*< 10*	*< 3.0*
B3-0.5	na	na	na	3.2
B3-2.5	na	na	na	*< 3.0*
B4-0.5	na	na	na	*< 3.0*
B4-2.5	na	na	na	*< 3.0*
B5-0.5	*< 10*	*< 10*	*< 10*	7.8
B5-2.5	*< 10*	*< 10*	*< 10*	*< 3.0*
ESLs[1]	(430)	(260)	(12,000)	82 (80)
ESLs[2]	(1,800)	(1,100)	(54,000)	2,700 (160)

na Not analyzed
TPH-g Total Petroleum Hydrocarbons, Gasoline-Range Hydrocarbons
TPH-mo Total Petroleum Hydrocarbons, Motor Oil-Range Hydrocarbons
TPH-d Total Petroleum Hydrocarbons, Diesel Fuel-Range Hydrocarbons
ESLs[1] Residential Shallow Soil Exposure (California Regional Water Quality Control Board, San Francisco Bay Region –January/July 2019, Table S-1)
ESLs[2] Any Land Use/Any Depth Soil Exposure: Construction Worker (January/July 2019, Table S-1)
35 (260) Numbers without parentheses are cancer screening levels. Number with parentheses are non-cancer screening levels.
Note Reporting limits shown in italics when constituents not detected at or above the laboratory reporting limits.

TABLE 2
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
Volatile Organic Compounds
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte Sample No.	B1-15	B2-15	B3-0.5	B3-2.5	B4-0.5	B4-2.5	B5-0.5	B5-2.5	ESLs[1]	ESLs[2]
Bromobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Bromochloromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Bromodichloromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.29 (1,600)	28 (7,100)
Bromoform	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	18 (1,600)	1,200 (7,100)
Bromomethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(6.9)	(29)
n-Butylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
sec-Butylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
tert-Butylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Carbon tetrachloride	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.62 (5.3)	53 (220)
Chlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(270)	(1,200)
Chloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(14,000)	(59,000)
Chloroform	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.32 (200)	34 (860)
Chloromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
2-Chlorotoluene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
4-Chlorotoluene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Dibromochloromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	8.3 (1,600)	290 (7,100)
1,2-Dibromo-3-chloropropane	***< 0.0079***	***< 0.0050***	na	na	na	na	***< 0.0045***	***< 0.0056***	0.0044 (4.8)	1.1 (20)
1,2-Dibromoethane (EDB)	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.036 (7.2)	3.3 (30)
Dibromomethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,2-Dichlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(1,800)	(7,800)
1,3-Dichlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,4-Dichlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	2.6 (3,400)	280 (15,000)
Dichlorodifluoromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,1-Dichloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	3.6 (16,000)	370 (71,000)
1,2-Dichloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.47 (32)	45 (130)
1,1-Dichloroethene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(83)	(350)
cis-1,2-Dichloroethene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(19)	(78)
trans-1,2-Dichloroethene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(130)	(570)
1,2-Dichloropropane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	1.0 (16)	99 (66)
1,3-Dichloropropane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.57 (72)	5.3 (300)
2,2-Dichloropropane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,1-Dichloropropene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
cis-1,3-Dichloropropene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
trans-1,3-Dichloropropene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Hexachlorobutadiene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	1.2 (78)	100 (350)
Isopropylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
p-Isopropyltoluene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Methylene chloride	*< 0.016*	*< 0.010*	na	na	na	na	*< 0.0090*	*< 0.011*	1.9 (310)	490 (1,400)
Naphthalene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	3.8 (130)	400 (500)
n-Propylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Styrene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(5,700)	(25,000)
1,1,2,2-Tetrachloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.61 (1,600)	49 (7,100)
1,1,1,2-Tetrachloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	2.0 (2,300)	190 (11,000)

TABLE 2 (Continued)
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
Volatile Organic Compounds
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte / Sample No.	B1-15	B2-15	B3-0.5	B3-2.5	B4-0.5	B4-2.5	B5-0.5	B5-2.5	ESLs[1]	ESLs[2]
Tetrachloroethene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.59 (82)	33 (350)
1,2,3-Trichlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,2,4-Trichlorobenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,1,2-Trichloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	1.2 (1.5)	110 (6.3)
1,1,1-Trichloroethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(1,700)	(7,200)
Trichloroethene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.95 (4.2)	130 (18)
Trichlorofluoromethane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,2,3-Trichloropropane	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.023 (4.9)	0.83 (20)
1,3,5-Trimethylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
1,2,4-Trimethylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---
Vinyl chloride	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.0083 (70)	3.4 (300)
Benzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	0.33 (11)	33 (45)
Toluene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(1,100)	(4,700)
Ethylbenzene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	5.9 (3,400)	540 (15,000)
m,p-Xylene	*< 0.0079*	*< 0.0050*	na	na	na	na	*< 0.0045*	*< 0.0056*	(580)	(2,400)
o-Xylene	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(580)	(2,400)
Acetone	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	(61,000)	(270,000)
Methyl ethyl ketone	*< 0.0079*	*< 0.0050*	na	na	na	na	*< 0.0045*	*< 0.0056*	(27,000)	(120,000)
Methyl isobutyl ketone	*< 0.0079*	*< 0.0050*	na	na	na	na	*< 0.0045*	*< 0.0056*	(34,000)	(140,000)
2-Hexanone (MBK)	*< 0.0039*	*< 0.0025*	na	na	na	na	*< 0.0023*	*< 0.0028*	---	---

na Not analyzed
--- Screening levels not established
ESLs[1] Residential Shallow Soil Exposure (California Regional Water Quality Control Board, San Francisco Bay Region –January/July 2019, Table S-1)
ESLs[2] Any Land Use/Any Depth Soil Exposure: Construction Worker (January/July 2019, Table S-1)
Bold Indicates laboratory reporting limit is set above regulatory screening levels
35 (260*) Numbers without parentheses are cancer screening levels. Number with parentheses are non-cancer screening levels.
Note: Reporting limits shown in italics when constituents not detected at or above the laboratory reporting limits.

TABLE 3
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Gas Sample Results
Detected Volatile Organic Compounds
(Concentrations are expressed in micrograms per meter cubed [µg/m3])

Sample No. Analyte*	SG1	SG2	ESLs
Acetone	27	29	1.1E+06
Isopropyl alcohol	*2.7* J	*4.1* J	---
Styrene	17	*< 4.3*	31,000
1,2,4-Trimethylbenzene	*1.6* J	*2.1* J	---
2-Butanone (MEK)	*3.5* J	*4.2* J	1.7E+05
Benzene	*2.7* J	*< 3.3*	3.2
Toluene	6.3	*3.7* J	10,000
m,p-Xylene	*4.6* J	*5.5* J	3,500
1,1-Difluoroethane (Tracer)	*< 27*	*< 27*	---

--- Not established
ESLs Subslab/Soil Gas Vapor Intrusion Human Health Risk Screening Levels (Volatile Chemicals Only) – Residential Exposure (San Francisco Bay Regional Water Quality Control Board, January/July 2019), Table SG-1.
35 (260) Numbers without parentheses are cancer screening levels. Number with parentheses are non-cancer screening levels.
J Flag Indicates the detection was above the method detection limit and below the laboratory reporting limit.
Note Reporting limits shown in italics when constituents not detected at or above the laboratory reporting limits.

TABLE 4
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
Organochlorine Pesticides
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte / Sample No.	B1-15	B2-15	B3-0.5	B3-2.5	B4-0.5	B4-2.5	B5-0.5	B5-2.5	ESLs[1]	ESLs[2]
alpha-BHC	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
gamma-BHC (Lindane)	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.55 (21)	16 (74)
beta-BHC	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
delta-BHC	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
Heptachlor	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.12 (35)	3.7 (120)
Aldrin	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.035 (2.1)	1.0 (7.4)
Heptachlor epoxide	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.062 (0.91)	1.9 (3.2)
gamma-Chlordane	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.48 (36)	14 (130)
alpha-Chlordane	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.48 (36)	14 (130)
Endosulfan I	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	4(20)	(1,500)
4,4-DDE	na	na	0.0096	*< 0.0050*	0.015	*< 0.0050*	na	na	1.8	57
Dieldrin	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	0.037 (3.5)	1.1 (12)
Endrin	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	(21)	(74)
4,4-DDD	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	2.7	81
Endosulfane II	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	(420)	(1,500)
4,4-DDT	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	1.9 (37)	57 (140)
Endrin aldehyde	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
Endosulfan sulfate	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
Methoxchlor	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	(350)	(1,200)
Endrin ketone	na	na	*< 0.0050*	*< 0.0050*	*< 0.0050*	*< 0.0050*	na	na	---	---
Toxaphene	na	na	*< 0.020*	*< 0.020*	*< 0.020*	*< 0.020*	na	na	0.51	14

na	Not analyzed
---	Screening levels not established
ESLs[1]	Residential Shallow Soil Exposure (California Regional Water Quality Control Board, San Francisco Bay Region –January/July 2019, Table S-1)
ESLs[2]	Any Land Use/Any Depth Soil Exposure: Construction Worker (January/July 2019, Table S-1)
Bold	Indicates laboratory reporting limit is set above regulatory screening levels
35 (260*)	Numbers without parentheses are cancer screening levels. Number with parentheses are non-cancer screening levels.
Note:	Reporting limits shown in italics when constituents not detected at or above the laboratory reporting limits.

TABLE 5
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
California Metals - 17
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte / **Sample No.**	**B1-15**	**B2-15**	**B3-0.5**	**B3-2.5**	**B4-0.5**	**B4-2.5**	**B5-0.5**	**B5-2.5**	**ESLs[1]**	**ESLs[2]**
Antimony	na	na	*< 3.0*	*< 3.0*	*< 3.0*	*< 3.0*	*< 3.0*	*< 3.0*	(11)	(50)
Silver	na	na	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	(390)	(1,800)
Arsenic	na	na	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	0.067 (0.26)	2.0 (0.98)
Barium	na	na	87	71	100	90	55	89	(15,000)	(3,000)
Beryllium	na	na	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	1,600 (16)	180 (27)
Cadmium	na	na	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	*< 2.0*	910 (78)	110 (51)
Chromium	na	na	18	19	22	22	12	19	---	---
Cobalt	na	na	8.1	7.8	9.8	9.0	5.4	9.3	420 (23)	49 (28)
Copper	na	na	9.5	8.6	11	10	86	10	(3,100)	(14,000)
Lead	*< 3.0*	*< 3.0*	3.2	*< 3.0*	*< 3.0*	*< 3.0*	7.8	*< 3.0*	82 (80)	2,700 (160)
Molybdenum	na	na	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	(390)	(1,800)
Nickel	na	na	32	31	38	39	14	33	15,000 (820)	1,700 (86)
Selenium	na	na	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	(390)	(1,700)
Thallium	na	na	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	***< 5.0***	(0.78)	(3.5)
Vanadium	na	na	26	28	33	31	20	27	(390)	(470)
Zinc	na	na	21	19	25	22	23	21	(23,000)	(110,000)
Mercury	na	na	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	*< 0.10*	(13)	(44)

---	Screening Level Not Established
ESLs[1]	Commercial Shallow Soil Exposure (California Regional Water Quality Control Board, San Francisco Bay Region –January/July 2019, Table S-1)
ESLs[2]	Any Land Use/Any Depth Soil Exposure: Construction Worker (January/July 2019, Table S-1)
35 (260)	Numbers without Parentheses are Cancer Screening Levels. Number with Parentheses are Non-Cancer Screening Levels.
Note	Reporting Limits Shown in Italics
Bold	Indicates laboratory reporting limit is set above regulatory screening levels

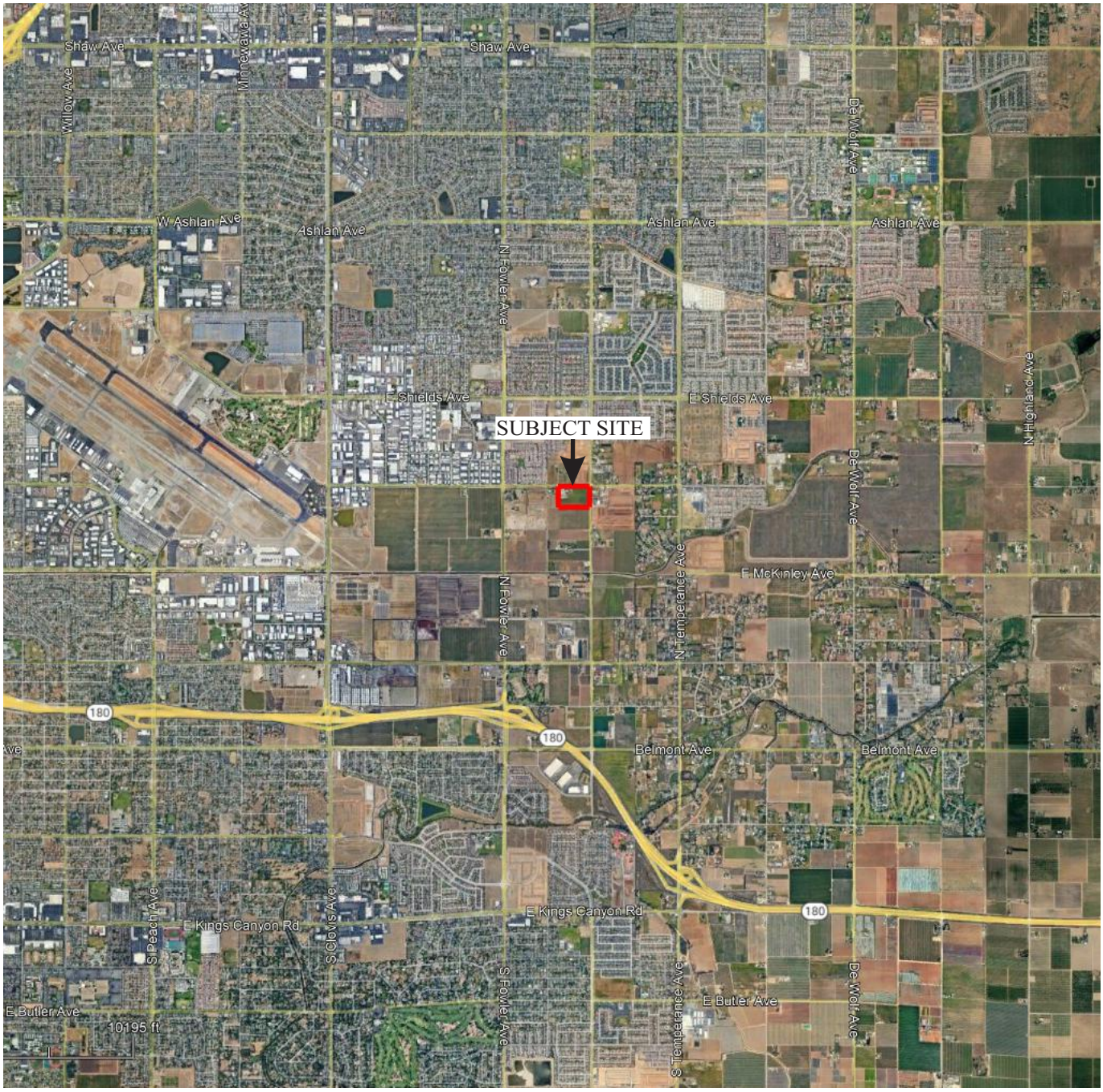
TABLE 6
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
Semi-Volatile Organic Compounds
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte / Sample No.	B1-15	B2-15	B3-0.5	B3-2.5	B4-0.5	B4-2.5	B5-0.5	B5-2.5	ESLs[1]	ESLs[2]
Carbazole	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Phenol	na	na	na	na	na	na	*< 10*	*< 0.30*	(23,000)	(98,000)
Aniline	na	na	na	na	na	na	*< 3.0*	*< 1.0*	---	---
2-Chlorophenol	na	na	na	na	na	na	*< 1.0*	*< 1.0*	---	---
1,4-Dichlorobenzene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	2.6 (34,000)	280 (15,000)
N-Nitrosodi-n-propylamine	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
1,2,4-Trichlorobenzene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	24 (59)	850 (240)
4-Chloro-3-methylphenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
2-Methylnaphthalene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
1-Methylnaphthalene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(240)	(670)
Acenaphthene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(3,600)	(10,000)
4-Nitrophenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
2,4-Dinitrotoluene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	2.2 (160)	79 (710)
Pentachlorophenol	na	na	na	na	na	na	***< 10***	*< 1.0*	1.0 (250)	20 (560)
Pyrene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(1,800)	(5,000)
Acenaphthylene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Anthracene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(18,000)	(50,000)
Benzo (a) anthracene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	1.1	110
Benzo (b) fluoranthene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	1.1	110
Benzo (k) fluoranthene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	11	910
Benzo (g,h,i) perylene	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
Benzo (a) pyrene	na	na	na	na	na	na	***< 3.0***	***< 0.30***	0.11 (18)	11 (10)
Benzyl alcohol	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Bis(2-chloroethoxy)methane	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Bis(2-chloroethyl)ether	na	na	na	na	na	na	***< 3.0***	***< 0.30***	0.10	6.4
Bis(2-chloroisopropyl)ether	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Bis(2-ethylhexyl)phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	39 (1,300)	950 (3,800)
4-Bromophenyl phenyl ether	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Butyl benzyl phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
4-Chloroaniline	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2-Chloronaphthalene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Chrysene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Dibenz (a,h) anthracene	na	na	na	na	na	na	***< 3.0***	***< 0.30***	0.11	11
Dibenzofuran	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Di-n-butyl phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
1,2-Dichlorobenzene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(1,800)	(7,800)
1,3-Dichlorobenzene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2,4-Dichlorophenol	na	na	na	na	na	na	*< 10*	*< 1.0*	(230)	(1,100)
Diethyl phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(51,000)	(150,000)
2,4-Dimethylphenol	na	na	na	na	na	na	*< 10*	*< 1.0*	(1,600)	(7,100)
Dimethyl phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---

TABLE 6 (continued)
Rocha Property
6351 and 6361 East Clinton Avenue
Fresno, California 93727
December 2, 2021 Soil Sampling Results
Semi-Volatile Organic Compounds
(Concentrations are expressed in milligrams per kilogram [mg/kg])

Analyte / Sample No.	B1-15	B2-15	B3-0.5	B3-2.5	B4-0.5	B4-2.5	B5-0.5	B5-2.5	ESLs[1]	ESLs[2]
4,6-Dinitro-2-methylphenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
2,4-Dinitrophenol	na	na	na	na	na	na	*< 10*	*< 1.0*	(160)	(710)
2,6-Dinitrotoluene	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
Di-n-octyl phthalate	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Fluoranthene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(2,400)	(6,700)
Fluorene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	(2,400)	(6,700)
Hexachlorobenzene	na	na	na	na	na	na	***< 15***	***< 1.5***	0.18 (56)	7.7 (200)
Hexachlorobutadiene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	1.2 (78)	100 (350)
Hexachlorocyclopentadiene	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
Hexachloroethane	na	na	na	na	na	na	***< 3.0***	*< 0.30*	1.8 (38)	130 (120)
Indeno (1,2,3-cd) pyrene	na	na	na	na	na	na	***< 3.0***	*< 0.30*	1.1	110
Isophorone	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2-Methylphenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
4-Methylphenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
Naphthalene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	3.8 (130)	400 (500)
2-Nitroaniline	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
3-Nitroaniline	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
4-Nitroaniline	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Nitrobenzene	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
2-Nitrophenol	na	na	na	na	na	na	*< 10*	*< 1.0*	---	---
N-Nitrosodimethylamine	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
N-Nitrosodiphenylamine	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2,3,5,6-Tetrachlorophenol	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2,3,4,6-Tetrachlorophenol	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Phenanthrene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
Azobenzene	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2,4,5-Trichlorophenol	na	na	na	na	na	na	*< 10*	*< 1.0*	(7,800)	(35,000)
Pyridine	na	na	na	na	na	na	*< 3.0*	*< 0.30*	---	---
2,4,6-Trichlorophenol	na	na	na	na	na	na	***< 10***	*< 1.0*	9.9 (78)	350 (350)

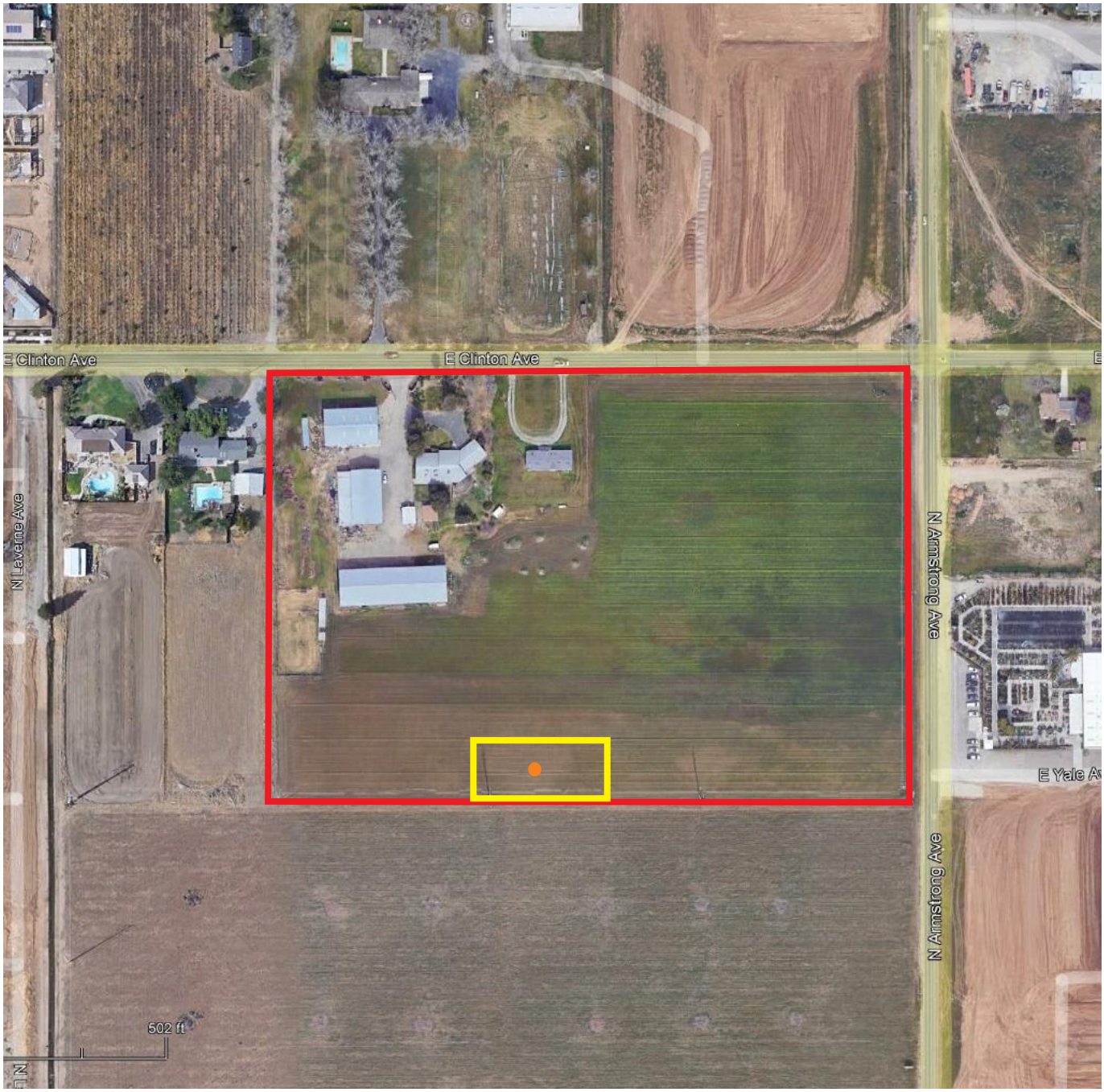
na Not analyzed
--- Screening levels not established
ESLs[1] Residential Shallow Soil Exposure (California Regional Water Quality Control Board, San Francisco Bay Region –January/July 2019, Table S-1)
ESLs[2] Any Land Use/Any Depth Soil Exposure: Construction Worker (January/July 2019, Table S-1)
Bold Indicates laboratory reporting limit is set above regulatory screening levels
35 (260*) Numbers without parentheses are cancer screening levels. Number with parentheses are non-cancer screening levels.
Note: Reporting limits shown in italics when constituents not detected at or above the laboratory reporting limits.



VICINITY MAP	Scale: NTS	Date: January 2022
ROCHA PROPERTY 6351 & 6361 E. CLINTON AVE. FRESNO, CALIFORNIA 93727	Drawn By: MDE	Approved By: MDE
	Project No. 014-21164	Figure: 1

Krazan

SITE DEVELOPMENT ENGINEERS
With Offices Serving the Western United States



EXPLANATION

- Subject Site
- Approximate Extent of Limited Subsurface Survey
- Approximate Location of Subsurface Anomaly

EXTENT OF LIMITED SUBSURFACE SURVEY	Scale: NTS	Date: January 2022	Krazan
ROCHA PROPERTY 6351 & 6361 E. CLINTON AVE. FRESNO, CALIFORNIA 93727	Drawn By: MDE	Approved By: MDE	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western United States*
	Project No. 014-21164	Figure: 2	



EXPLANATION

- Subject Site
- Approximate Location of Soil Boring
- Approximate Location of Soil Gas Sample

SAMPLE LOCATION MAP	Scale: NTS	Date: January 2022	Krazan
ROCHA PROPERTY 6351 & 6361 E. CLINTON AVE. FRESNO, CALIFORNIA 93727	Drawn By: MDE	Approved By: MDE	SITE DEVELOPMENT ENGINEERS *With Offices Serving the Western United States*
	Project No. 014-21164	Figure: 3	

Appendix A

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

Project Name:	Rocha Property 014-21164
Project Address:	E. Clinton Ave.
	Fresno CA

3 Purge Volumes	Purging Time
399 cc	2.66 min.

Form Completed By: Mark Edwards

Well Construction Inputs	
Depth of Probe (ft.)	5
Tubing Type	1/4'' Teflon
Boring Diameter (in.)	1
Sand Pack Height (ft.)	1
Dry Bentonite Height (ft.)	1

Purging Rate (cc/min)	150

Default Parameters	
Above Ground Tubing (ft.)	1
Sand Porosity	35%
Bentonite Porosity	30%

Former Soil Gas Advisory Calculations

Purge Number	Purge Volume	Purging Time
1	133 cc	53 sec.
3	399 cc	2.66 min.
7	931 cc	6.21 min.
10	1330 cc	8.86 min.

Tubing Vol.	Sand Pack Vol.	Dry Bent. Vol.
32.6 cc	54.1 cc	46.3 cc

** Purging times greater than one minute are notated in fractions of a minute (e.g. 7.20 min. = 7 min. & 12 sec.)

Appendix B

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 December 2021

Mark D. Edwards
Krazan, Clovis
215 West Dakota Avenue
Clovis, CA 93612

RE: Rocha Property

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-15	T213694-01	Soil	12/02/21 10:10	12/03/21 11:40
B2-15	T213694-02	Soil	12/02/21 10:25	12/03/21 11:40
B3-0.5	T213694-03	Soil	12/02/21 10:57	12/03/21 11:40
B3-2.5	T213694-04	Soil	12/02/21 11:00	12/03/21 11:40
B4-0.5	T213694-05	Soil	12/02/21 11:06	12/03/21 11:40
B4-2.5	T213694-06	Soil	12/02/21 11:09	12/03/21 11:40
B5-0.5	T213694-07	Soil	12/02/21 11:26	12/03/21 11:40
B5-2.5	T213694-08	Soil	12/02/21 11:29	12/03/21 11:40

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

DETECTIONS SUMMARY

Sample ID: B1-15 **Laboratory ID:** T213694-01

No Results Detected

Sample ID: B2-15 **Laboratory ID:** T213694-02

No Results Detected

Sample ID: B3-0.5 **Laboratory ID:** T213694-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**87**	1.0	mg/kg	EPA 6010b	
Chromium	**18**	2.0	mg/kg	EPA 6010b	
Cobalt	**8.1**	2.0	mg/kg	EPA 6010b	
Copper	**9.5**	1.0	mg/kg	EPA 6010b	
Lead	**3.2**	3.0	mg/kg	EPA 6010b	
Nickel	**32**	2.0	mg/kg	EPA 6010b	
Vanadium	**26**	5.0	mg/kg	EPA 6010b	
Zinc	**21**	1.0	mg/kg	EPA 6010b	
4,4′-DDE	**0.0096**	0.0050	mg/kg	EPA 8081A	

Sample ID: B3-2.5 **Laboratory ID:** T213694-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**71**	1.0	mg/kg	EPA 6010b	
Chromium	**19**	2.0	mg/kg	EPA 6010b	
Cobalt	**7.8**	2.0	mg/kg	EPA 6010b	
Copper	**8.6**	1.0	mg/kg	EPA 6010b	
Nickel	**31**	2.0	mg/kg	EPA 6010b	
Vanadium	**28**	5.0	mg/kg	EPA 6010b	
Zinc	**19**	1.0	mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Sample ID: B4-0.5 **Laboratory ID:** T213694-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**100**	1.0	mg/kg	EPA 6010b	
Chromium	**22**	2.0	mg/kg	EPA 6010b	
Cobalt	**9.8**	2.0	mg/kg	EPA 6010b	
Copper	**11**	1.0	mg/kg	EPA 6010b	
Nickel	**38**	2.0	mg/kg	EPA 6010b	
Vanadium	**33**	5.0	mg/kg	EPA 6010b	
Zinc	**25**	1.0	mg/kg	EPA 6010b	
4,4´-DDE	**0.015**	0.0050	mg/kg	EPA 8081A	

Sample ID: B4-2.5 **Laboratory ID:** T213694-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**90**	1.0	mg/kg	EPA 6010b	
Chromium	**22**	2.0	mg/kg	EPA 6010b	
Cobalt	**9.0**	2.0	mg/kg	EPA 6010b	
Copper	**10**	1.0	mg/kg	EPA 6010b	
Nickel	**39**	2.0	mg/kg	EPA 6010b	
Vanadium	**31**	5.0	mg/kg	EPA 6010b	
Zinc	**22**	1.0	mg/kg	EPA 6010b	

Sample ID: B5-0.5 **Laboratory ID:** T213694-07

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**55**	1.0	mg/kg	EPA 6010b	
Chromium	**12**	2.0	mg/kg	EPA 6010b	
Cobalt	**5.4**	2.0	mg/kg	EPA 6010b	
Copper	**86**	1.0	mg/kg	EPA 6010b	
Lead	**7.8**	3.0	mg/kg	EPA 6010b	
Nickel	**14**	2.0	mg/kg	EPA 6010b	
Vanadium	**20**	5.0	mg/kg	EPA 6010b	
Zinc	**23**	1.0	mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Sample ID: B5-2.5 **Laboratory ID:** T213694-08

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**89**	1.0	mg/kg	EPA 6010b	
Chromium	**19**	2.0	mg/kg	EPA 6010b	
Cobalt	**9.3**	2.0	mg/kg	EPA 6010b	
Copper	**10**	1.0	mg/kg	EPA 6010b	
Nickel	**33**	2.0	mg/kg	EPA 6010b	
Vanadium	**27**	5.0	mg/kg	EPA 6010b	
Zinc	**21**	1.0	mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B1-15

T213694-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	1120737	12/07/21	12/09/21	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*92.5 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Lead	ND	3.00	mg/kg	1	1120731	12/07/21	12/09/21	EPA 6010b	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0039	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Bromochloromethane	ND	0.0039	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0039	"	"	"	"	"	"	
Bromoform	ND	0.0039	"	"	"	"	"	"	
Bromomethane	ND	0.0039	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0039	"	"	"	"	"	"	
Chlorobenzene	ND	0.0039	"	"	"	"	"	"	
Chloroethane	ND	0.0039	"	"	"	"	"	"	
Chloroform	ND	0.0039	"	"	"	"	"	"	
Chloromethane	ND	0.0039	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0079	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0039	"	"	"	"	"	"	
Dibromomethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0039	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B1-15

T213694-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	0.0039	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
1,2-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0039	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0039	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0039	"	"	"	"	"	"	
Methylene chloride	ND	0.016	"	"	"	"	"	"	
Naphthalene	ND	0.0039	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0039	"	"	"	"	"	"	
Styrene	ND	0.0039	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
Trichloroethene	ND	0.0039	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
Vinyl chloride	ND	0.0039	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B1-15

T213694-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.0039	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Toluene	ND	0.0039	"	"	"	"	"	"	
Ethylbenzene	ND	0.0039	"	"	"	"	"	"	
m,p-Xylene	ND	0.0079	"	"	"	"	"	"	
o-Xylene	ND	0.0039	"	"	"	"	"	"	
Acetone	ND	0.0039	"	"	"	"	"	"	
Methyl ethyl ketone	ND	0.0079	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.0079	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.0039	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*	*76.1-127*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.1 %*	*85.9-114*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*77.8-142*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B2-15

T213694-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	1120737	12/07/21	12/09/21	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*110 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Lead	ND	3.00	mg/kg	1	1120731	12/07/21	12/09/21	EPA 6010b	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0025	mg/kg	1	1120305	12/03/21	12/07/21	EPA 8260B/5035	
Bromochloromethane	ND	0.0025	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0025	"	"	"	"	"	"	
Bromoform	ND	0.0025	"	"	"	"	"	"	
Bromomethane	ND	0.0025	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0025	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0025	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0025	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0025	"	"	"	"	"	"	
Chlorobenzene	ND	0.0025	"	"	"	"	"	"	
Chloroethane	ND	0.0025	"	"	"	"	"	"	
Chloroform	ND	0.0025	"	"	"	"	"	"	
Chloromethane	ND	0.0025	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0025	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0025	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0025	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0025	"	"	"	"	"	"	
Dibromomethane	ND	0.0025	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0025	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0025	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0025	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0025	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B2-15

T213694-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	0.0025	mg/kg	1	1120305	12/03/21	12/07/21	EPA 8260B/5035	
1,2-Dichloroethane	ND	0.0025	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0025	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0025	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0025	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0025	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0025	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0025	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0025	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0025	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0025	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0025	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0025	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0025	"	"	"	"	"	"	
Methylene chloride	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.0025	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0025	"	"	"	"	"	"	
Styrene	ND	0.0025	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0025	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0025	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0025	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0025	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0025	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0025	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0025	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0025	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0025	"	"	"	"	"	"	
Vinyl chloride	ND	0.0025	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B2-15

T213694-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0025	mg/kg	1	1120305	12/03/21	12/07/21	EPA 8260B/5035	
Toluene	ND	0.0025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0025	"	"	"	"	"	"	
m,p-Xylene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0025	"	"	"	"	"	"	
Acetone	ND	0.0025	"	"	"	"	"	"	
Methyl ethyl ketone	ND	0.0050	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.0050	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.0025	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*	*76.1-127*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*85.9-114*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*77.8-142*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B3-0.5

T213694-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**87**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/10/21	"	
Cadmium	ND	2.0	"	"	"	"	12/10/21	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**8.1**	2.0	"	"	"	"	"	"	
Copper	**9.5**	1.0	"	"	"	"	"	"	
Lead	**3.2**	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**32**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**26**	5.0	"	"	"	"	"	"	
Zinc	**21**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4´-DDE	**0.0096**	0.0050	"	"	"	"	"	"	
Dieldrin	ND	0.0050	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B3-0.5

T213694-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
Endrin	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
4,4´-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4´-DDT	ND	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	ND	0.020	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*76.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*71.7 %*		*35-140*	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B3-2.5

T213694-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**71**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/10/21	"	
Cadmium	ND	2.0	"	"	"	"	12/10/21	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**7.8**	2.0	"	"	"	"	"	"	
Copper	**8.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**31**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**28**	5.0	"	"	"	"	"	"	
Zinc	**19**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4´-DDE	ND	0.0050	"	"	"	"	"	"	
Dieldrin	ND	0.0050	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B3-2.5

T213694-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
Endrin	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
4,4´-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4´-DDT	ND	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	ND	0.020	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*79.2 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*67.1 %*		*35-140*	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B4-0.5

T213694-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**100**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**9.8**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**38**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**33**	5.0	"	"	"	"	"	"	
Zinc	**25**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4´-DDE	**0.015**	0.0050	"	"	"	"	"	"	
Dieldrin	ND	0.0050	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B4-0.5

T213694-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
Endrin	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
4,4´-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4´-DDT	ND	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	ND	0.020	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*78.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*74.4 %*		*35-140*	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B4-2.5

T213694-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**90**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**9.0**	2.0	"	"	"	"	"	"	
Copper	**10**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**39**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**31**	5.0	"	"	"	"	"	"	
Zinc	**22**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
gamma-BHC (Lindane)	ND	0.0050	"	"	"	"	"	"	
beta-BHC	ND	0.0050	"	"	"	"	"	"	
delta-BHC	ND	0.0050	"	"	"	"	"	"	
Heptachlor	ND	0.0050	"	"	"	"	"	"	
Aldrin	ND	0.0050	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0050	"	"	"	"	"	"	
gamma-Chlordane	ND	0.0050	"	"	"	"	"	"	
alpha-Chlordane	ND	0.0050	"	"	"	"	"	"	
Endosulfan I	ND	0.0050	"	"	"	"	"	"	
4,4´-DDE	ND	0.0050	"	"	"	"	"	"	
Dieldrin	ND	0.0050	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B4-2.5

T213694-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
Endrin	ND	0.0050	mg/kg	1	1120725	12/07/21	12/09/21	EPA 8081A	
4,4´-DDD	ND	0.0050	"	"	"	"	"	"	
Endosulfan II	ND	0.0050	"	"	"	"	"	"	
4,4´-DDT	ND	0.0050	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0050	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0050	"	"	"	"	"	"	
Methoxychlor	ND	0.0050	"	"	"	"	"	"	
Endrin ketone	ND	0.0050	"	"	"	"	"	"	
Toxaphene	ND	0.020	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*78.1 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*70.6 %*		*35-140*	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	1120737	12/07/21	12/09/21	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*105 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/10/21	"	
Arsenic	ND	5.0	"	"	"	"	12/10/21	"	
Barium	**55**	1.0	"	"	"	"	12/10/21	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/10/21	"	
Chromium	**12**	2.0	"	"	"	"	12/10/21	"	
Cobalt	**5.4**	2.0	"	"	"	"	12/10/21	"	
Copper	**86**	1.0	"	"	"	"	12/10/21	"	
Lead	**7.8**	3.0	"	"	"	"	12/10/21	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**14**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**20**	5.0	"	"	"	"	12/10/21	"	
Zinc	**23**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	0.0023	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Bromochloromethane	ND	0.0023	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0023	"	"	"	"	"	"	
Bromoform	ND	0.0023	"	"	"	"	"	"	
Bromomethane	ND	0.0023	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0023	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0023	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0023	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0023	"	"	"	"	"	"	
Chlorobenzene	ND	0.0023	"	"	"	"	"	"	
Chloroethane	ND	0.0023	"	"	"	"	"	"	
Chloroform	ND	0.0023	"	"	"	"	"	"	
Chloromethane	ND	0.0023	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0023	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0023	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0023	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0023	"	"	"	"	"	"	
Dibromomethane	ND	0.0023	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0023	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0023	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0023	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0023	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0023	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0023	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0023	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0023	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0023	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0023	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0023	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0023	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	0.0023	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0023	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0023	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0023	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0023	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0023	"	"	"	"	"	"	
Methylene chloride	ND	0.0090	"	"	"	"	"	"	
Naphthalene	ND	0.0023	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0023	"	"	"	"	"	"	
Styrene	ND	0.0023	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0023	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0023	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0023	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0023	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0023	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0023	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0023	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0023	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0023	"	"	"	"	"	"	
Vinyl chloride	ND	0.0023	"	"	"	"	"	"	
Benzene	ND	0.0023	"	"	"	"	"	"	
Toluene	ND	0.0023	"	"	"	"	"	"	
Ethylbenzene	ND	0.0023	"	"	"	"	"	"	
m,p-Xylene	ND	0.0045	"	"	"	"	"	"	
o-Xylene	ND	0.0023	"	"	"	"	"	"	
Acetone	ND	0.0023	"	"	"	"	"	"	
Methyl ethyl ketone	ND	0.0045	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.0045	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
2-Hexanone (MBK)	ND	0.0023	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Surrogate: Toluene-d8		*100 %*	*76.1-127*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*85.9-114*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*77.8-142*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	3.0	mg/kg	10	1120739	12/07/21	12/09/21	EPA 8270C	R-07
Phenol	ND	10	"	"	"	"	"	"	R-07
Aniline	ND	3.0	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	10	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	3.0	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	3.0	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	3.0	"	"	"	"	"	"	R-07
Acenaphthene	ND	3.0	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	10	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	3.0	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	10	"	"	"	"	"	"	R-07
Pyrene	ND	3.0	"	"	"	"	"	"	R-07
Acenaphthylene	ND	3.0	"	"	"	"	"	"	R-07
Anthracene	ND	3.0	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	3.0	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	3.0	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	3.0	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	10	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	3.0	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	3.0	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	3.0	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	3.0	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	3.0	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bis(2-ethylhexyl)phthalate	ND	3.0	mg/kg	10	1120739	12/07/21	12/09/21	EPA 8270C	R-07
4-Bromophenyl phenyl ether	ND	3.0	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	3.0	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	3.0	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	3.0	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	3.0	"	"	"	"	"	"	R-07
Chrysene	ND	3.0	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	3.0	"	"	"	"	"	"	R-07
Dibenzofuran	ND	3.0	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	3.0	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	3.0	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	10	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	3.0	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	10	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	3.0	"	"	"	"	"	"	R-07
Fluoranthene	ND	3.0	"	"	"	"	"	"	R-07
Fluorene	ND	3.0	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	15	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	10	"	"	"	"	"	"	R-07
Hexachloroethane	ND	3.0	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	3.0	"	"	"	"	"	"	R-07
Isophorone	ND	3.0	"	"	"	"	"	"	R-07
2-Methylphenol	ND	10	"	"	"	"	"	"	R-07
4-Methylphenol	ND	10	"	"	"	"	"	"	R-07
Naphthalene	ND	3.0	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	3.0	"	"	"	"	"	"	R-07

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-0.5

T213694-07 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3-Nitroaniline	ND	3.0	mg/kg	10	1120739	12/07/21	12/09/21	EPA 8270C	R-07
4-Nitroaniline	ND	3.0	"	"	"	"	"	"	R-07
Nitrobenzene	ND	10	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	10	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	3.0	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	3.0	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	3.0	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	3.0	"	"	"	"	"	"	R-07
Phenanthrene	ND	3.0	"	"	"	"	"	"	R-07
Azobenzene	ND	3.0	"	"	"	"	"	"	R-07
Pyridine	ND	3.0	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*103 %*	*15-121*		"	"	"	"	*R-07*
Surrogate: Phenol-d6		*111 %*	*24-113*		"	"	"	"	*R-07*
Surrogate: Nitrobenzene-d5		*106 %*	*21.3-119*		"	"	"	"	*R-07*
Surrogate: 2-Fluorobiphenyl		*97.4 %*	*32.4-102*		"	"	"	"	*R-07*
Surrogate: 2,4,6-Tribromophenol		*79.5 %*	*18.1-105*		"	"	"	"	*R-07*
Surrogate: Terphenyl-dl4		*119 %*	*29.1-130*		"	"	"	"	*R-07*

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	1120737	12/07/21	12/09/21	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*93.0 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	1120843	12/08/21	12/10/21	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**89**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/10/21	"	
Cadmium	ND	2.0	"	"	"	"	12/10/21	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**9.3**	2.0	"	"	"	"	"	"	
Copper	**10**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**33**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	**27**	5.0	"	"	"	"	"	"	
Zinc	**21**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	1120842	12/08/21	12/10/21	EPA 7471A Soil	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	0.0028	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Bromochloromethane	ND	0.0028	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0028	"	"	"	"	"	"	
Bromoform	ND	0.0028	"	"	"	"	"	"	
Bromomethane	ND	0.0028	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0028	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0028	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0028	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0028	"	"	"	"	"	"	
Chlorobenzene	ND	0.0028	"	"	"	"	"	"	
Chloroethane	ND	0.0028	"	"	"	"	"	"	
Chloroform	ND	0.0028	"	"	"	"	"	"	
Chloromethane	ND	0.0028	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0028	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0028	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0028	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0056	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0028	"	"	"	"	"	"	
Dibromomethane	ND	0.0028	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0028	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0028	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0028	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0028	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0028	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0028	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0028	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0028	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0028	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0028	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0028	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0028	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	0.0028	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0028	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0028	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0028	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0028	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0028	"	"	"	"	"	"	
Methylene chloride	ND	0.011	"	"	"	"	"	"	
Naphthalene	ND	0.0028	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0028	"	"	"	"	"	"	
Styrene	ND	0.0028	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0028	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0028	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0028	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0028	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0028	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0028	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0028	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0028	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0028	"	"	"	"	"	"	
Vinyl chloride	ND	0.0028	"	"	"	"	"	"	
Benzene	ND	0.0028	"	"	"	"	"	"	
Toluene	ND	0.0028	"	"	"	"	"	"	
Ethylbenzene	ND	0.0028	"	"	"	"	"	"	
m,p-Xylene	ND	0.0056	"	"	"	"	"	"	
o-Xylene	ND	0.0028	"	"	"	"	"	"	
Acetone	ND	0.0028	"	"	"	"	"	"	
Methyl ethyl ketone	ND	0.0056	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.0056	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
2-Hexanone (MBK)	ND	0.0028	mg/kg	1	1120305	12/03/21	12/05/21	EPA 8260B/5035	
Surrogate: Toluene-d8		*99.1 %*	*76.1-127*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*85.9-114*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*77.8-142*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	0.30	mg/kg	1	1120739	12/07/21	12/09/21	EPA 8270C	
Phenol	ND	1.0	"	"	"	"	"	"	
Aniline	ND	0.30	"	"	"	"	"	"	
2-Chlorophenol	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.30	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.30	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.30	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.30	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.30	"	"	"	"	"	"	
Acenaphthene	ND	0.30	"	"	"	"	"	"	
4-Nitrophenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.30	"	"	"	"	"	"	
Pentachlorophenol	ND	1.0	"	"	"	"	"	"	
Pyrene	ND	0.30	"	"	"	"	"	"	
Acenaphthylene	ND	0.30	"	"	"	"	"	"	
Anthracene	ND	0.30	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.30	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.30	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.30	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.30	"	"	"	"	"	"	
Benzyl alcohol	ND	0.30	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.30	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.30	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.30	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bis(2-ethylhexyl)phthalate	ND	0.30	mg/kg	1	1120739	12/07/21	12/09/21	EPA 8270C	
4-Bromophenyl phenyl ether	ND	0.30	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.30	"	"	"	"	"	"	
4-Chloroaniline	ND	0.30	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.30	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.30	"	"	"	"	"	"	
Chrysene	ND	0.30	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.30	"	"	"	"	"	"	
Dibenzofuran	ND	0.30	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.30	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.30	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.30	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	"	"	"	"	"	"	
Diethyl phthalate	ND	0.30	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.30	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.30	"	"	"	"	"	"	
Fluoranthene	ND	0.30	"	"	"	"	"	"	
Fluorene	ND	0.30	"	"	"	"	"	"	
Hexachlorobenzene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.30	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.0	"	"	"	"	"	"	
Hexachloroethane	ND	0.30	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.30	"	"	"	"	"	"	
Isophorone	ND	0.30	"	"	"	"	"	"	
2-Methylphenol	ND	1.0	"	"	"	"	"	"	
4-Methylphenol	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	0.30	"	"	"	"	"	"	
2-Nitroaniline	ND	0.30	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

B5-2.5

T213694-08 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3-Nitroaniline	ND	0.30	mg/kg	1	1120739	12/07/21	12/09/21	EPA 8270C	
4-Nitroaniline	ND	0.30	"	"	"	"	"	"	
Nitrobenzene	ND	1.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.30	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	0.30	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	0.30	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	0.30	"	"	"	"	"	"	
Phenanthrene	ND	0.30	"	"	"	"	"	"	
Azobenzene	ND	0.30	"	"	"	"	"	"	
Pyridine	ND	0.30	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*90.3 %*		*15-121*	"	"	"	"	
Surrogate: Phenol-d6		*96.5 %*		*24-113*	"	"	"	"	
Surrogate: Nitrobenzene-d5		*93.3 %*		*21.3-119*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*77.7 %*		*32.4-102*	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*90.4 %*		*18.1-105*	"	"	"	"	
Surrogate: Terphenyl-dl4		*118 %*		*29.1-130*	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120737 - EPA 3550B GC										
Blank (1120737-BLK1)				Prepared: 12/07/21 Analyzed: 12/09/21						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*109*		*"*	*100*		*109*	*65-135*			
LCS (1120737-BS1)				Prepared: 12/07/21 Analyzed: 12/09/21						
C13-C28 (DRO)	520	10	mg/kg	500		104	75-125			
Surrogate: p-Terphenyl	*110*		*"*	*100*		*110*	*65-135*			
LCS Dup (1120737-BSD1)				Prepared: 12/07/21 Analyzed: 12/09/21						
C13-C28 (DRO)	510	10	mg/kg	500		102	75-125	1.60	20	
Surrogate: p-Terphenyl	*93.9*		*"*	*100*		*93.9*	*65-135*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120731 - EPA 3050B										
Blank (1120731-BLK1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Arsenic	ND	5.00	mg/kg							
LCS (1120731-BS1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Arsenic	97.6	5.00	mg/kg	100		97.6	75-125			
Matrix Spike (1120731-MS1)		**Source: T213711-01**		Prepared: 12/07/21 Analyzed: 12/09/21						
Arsenic	69.7	5.00	mg/kg	100	2.69	67.0	75-125			QM-05
Matrix Spike Dup (1120731-MSD1)		**Source: T213711-01**		Prepared: 12/07/21 Analyzed: 12/09/21						
Arsenic	71.2	5.00	mg/kg	100	2.69	68.5	75-125	2.12	20	QM-05
Batch 1120843 - EPA 3050B										
Blank (1120843-BLK1)				Prepared: 12/08/21 Analyzed: 12/10/21						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120843 - EPA 3050B										
LCS (1120843-BS1)				Prepared: 12/08/21 Analyzed: 12/10/21						
Arsenic	87.4	5.0	mg/kg	100		87.4	75-125			
Barium	93.1	1.0	"	100		93.1	75-125			
Cadmium	93.8	2.0	"	100		93.8	75-125			
Chromium	93.3	2.0	"	100		93.3	75-125			
Lead	88.7	3.0	"	100		88.7	75-125			
Matrix Spike (1120843-MS1)	**Source: T213728-01**			Prepared: 12/08/21 Analyzed: 12/10/21						
Arsenic	71.3	5.0	mg/kg	100	ND	71.3	75-125			QM-05
Barium	87.6	1.0	"	100	15.7	71.9	75-125			QM-05
Cadmium	72.7	2.0	"	100	0.141	72.6	75-125			QM-05
Chromium	78.3	2.0	"	100	6.40	71.9	75-125			QM-05
Lead	68.4	3.0	"	100	ND	68.4	75-125			QM-05
Matrix Spike Dup (1120843-MSD1)	**Source: T213728-01**			Prepared: 12/08/21 Analyzed: 12/10/21						
Arsenic	73.1	5.0	mg/kg	100	ND	73.1	75-125	2.41	20	QM-05
Barium	84.5	1.0	"	100	15.7	68.7	75-125	3.68	20	QM-05
Cadmium	69.9	2.0	"	100	0.141	69.8	75-125	3.87	20	QM-05
Chromium	75.5	2.0	"	100	6.40	69.1	75-125	3.69	20	QM-05
Lead	70.1	3.0	"	100	ND	70.1	75-125	2.42	20	QM-05

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120842 - EPA 7471A Soil										
Blank (1120842-BLK1)				Prepared: 12/08/21 Analyzed: 12/09/21						
Mercury	ND	0.10	mg/kg							
LCS (1120842-BS1)				Prepared: 12/08/21 Analyzed: 12/09/21						
Mercury	0.369	0.10	mg/kg	0.385		95.9	80-120			
Matrix Spike (1120842-MS1)	**Source: T213728-01**			Prepared: 12/08/21 Analyzed: 12/09/21						
Mercury	0.371	0.10	mg/kg	0.397	ND	93.6	75-125			
Matrix Spike Dup (1120842-MSD1)	**Source: T213728-01**			Prepared: 12/08/21 Analyzed: 12/09/21						
Mercury	0.390	0.10	mg/kg	0.417	ND	93.6	75-125	4.94	20	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120725 - EPA 3550C ECD/GCMS										
Blank (1120725-BLK1)				Prepared: 12/07/21 Analyzed: 12/08/21						
alpha-BHC	ND	0.0050	mg/kg							
gamma-BHC (Lindane)	ND	0.0050	"							
beta-BHC	ND	0.0050	"							
delta-BHC	ND	0.0050	"							
Heptachlor	ND	0.0050	"							
Aldrin	ND	0.0050	"							
Heptachlor epoxide	ND	0.0050	"							
gamma-Chlordane	ND	0.0050	"							
alpha-Chlordane	ND	0.0050	"							
Endosulfan I	ND	0.0050	"							
4,4´-DDE	ND	0.0050	"							
Dieldrin	ND	0.0050	"							
Endrin	ND	0.0050	"							
4,4´-DDD	ND	0.0050	"							
Endosulfan II	ND	0.0050	"							
4,4´-DDT	ND	0.0050	"							
Endrin aldehyde	ND	0.0050	"							
Endosulfan sulfate	ND	0.0050	"							
Methoxychlor	ND	0.0050	"							
Endrin ketone	ND	0.0050	"							
Toxaphene	ND	0.020	"							
Surrogate: Tetrachloro-meta-xylene	*0.00812*		*"*	*0.0100*		*81.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*0.00747*		*"*	*0.0100*		*74.7*	*35-140*			
LCS (1120725-BS1)				Prepared: 12/07/21 Analyzed: 12/08/21						
gamma-BHC (Lindane)	0.0263	0.0050	mg/kg	0.0400		65.8	40-120			
Heptachlor	0.0272	0.0050	"	0.0400		68.0	40-120			
Aldrin	0.0222	0.0050	"	0.0400		55.5	40-120			
Dieldrin	0.0278	0.0050	"	0.0400		69.4	40-120			
Endrin	0.0278	0.0050	"	0.0400		69.5	40-120			
4,4´-DDT	0.0243	0.0050	"	0.0400		60.8	33-147			
Surrogate: Tetrachloro-meta-xylene	*0.00800*		*"*	*0.0100*		*80.0*	*35-140*			
Surrogate: Decachlorobiphenyl	*0.00867*		*"*	*0.0100*		*86.7*	*35-140*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120725 - EPA 3550C ECD/GCMS										
LCS Dup (1120725-BSD1)				Prepared: 12/07/21 Analyzed: 12/08/21						
gamma-BHC (Lindane)	0.0258	0.0050	mg/kg	0.0400		64.6	40-120	1.98	30	
Heptachlor	0.0267	0.0050	"	0.0400		66.6	40-120	1.97	30	
Aldrin	0.0217	0.0050	"	0.0400		54.3	40-120	2.19	30	
Dieldrin	0.0270	0.0050	"	0.0400		67.5	40-120	2.69	30	
Endrin	0.0270	0.0050	"	0.0400		67.5	40-120	2.83	30	
4,4′-DDT	0.0239	0.0050	"	0.0400		59.6	33-147	1.94	30	
Surrogate: Tetrachloro-meta-xylene	*0.00770*		*"*	*0.0100*		*77.0*	*35-140*			
Surrogate: Decachlorobiphenyl	*0.00747*		*"*	*0.0100*		*74.7*	*35-140*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120305 - EPA 5035 GCMS										
Blank (1120305-BLK1)				Prepared: 12/03/21 Analyzed: 12/04/21						
Bromobenzene	ND	0.0025	mg/kg							
Bromochloromethane	ND	0.0025	"							
Bromodichloromethane	ND	0.0025	"							
Bromoform	ND	0.0025	"							
Bromomethane	ND	0.0025	"							
n-Butylbenzene	ND	0.0025	"							
sec-Butylbenzene	ND	0.0025	"							
tert-Butylbenzene	ND	0.0025	"							
Carbon tetrachloride	ND	0.0025	"							
Chlorobenzene	ND	0.0025	"							
Chloroethane	ND	0.0025	"							
Chloroform	ND	0.0025	"							
Chloromethane	ND	0.0025	"							
2-Chlorotoluene	ND	0.0025	"							
4-Chlorotoluene	ND	0.0025	"							
Dibromochloromethane	ND	0.0025	"							
1,2-Dibromo-3-chloropropane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0025	"							
Dibromomethane	ND	0.0025	"							
1,2-Dichlorobenzene	ND	0.0025	"							
1,3-Dichlorobenzene	ND	0.0025	"							
1,4-Dichlorobenzene	ND	0.0025	"							
Dichlorodifluoromethane	ND	0.0025	"							
1,1-Dichloroethane	ND	0.0025	"							
1,2-Dichloroethane	ND	0.0025	"							
1,1-Dichloroethene	ND	0.0025	"							
cis-1,2-Dichloroethene	ND	0.0025	"							
trans-1,2-Dichloroethene	ND	0.0025	"							
1,2-Dichloropropane	ND	0.0025	"							
1,3-Dichloropropane	ND	0.0025	"							
2,2-Dichloropropane	ND	0.0025	"							
1,1-Dichloropropene	ND	0.0025	"							
cis-1,3-Dichloropropene	ND	0.0025	"							
trans-1,3-Dichloropropene	ND	0.0025	"							
Hexachlorobutadiene	ND	0.0025	"							
Isopropylbenzene	ND	0.0025	"							

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120305 - EPA 5035 GCMS										
Blank (1120305-BLK1)				Prepared: 12/03/21 Analyzed: 12/04/21						
p-Isopropyltoluene	ND	0.0025	mg/kg							
Methylene chloride	ND	0.010	"							
Naphthalene	ND	0.0025	"							
n-Propylbenzene	ND	0.0025	"							
Styrene	ND	0.0025	"							
1,1,2,2-Tetrachloroethane	ND	0.0025	"							
1,1,1,2-Tetrachloroethane	ND	0.0025	"							
Tetrachloroethene	ND	0.0025	"							
1,2,3-Trichlorobenzene	ND	0.0025	"							
1,2,4-Trichlorobenzene	ND	0.0025	"							
1,1,2-Trichloroethane	ND	0.0025	"							
1,1,1-Trichloroethane	ND	0.0025	"							
Trichloroethene	ND	0.0025	"							
Trichlorofluoromethane	ND	0.0025	"							
1,2,3-Trichloropropane	ND	0.0025	"							
1,3,5-Trimethylbenzene	ND	0.0025	"							
1,2,4-Trimethylbenzene	ND	0.0025	"							
Vinyl chloride	ND	0.0025	"							
Benzene	ND	0.0025	"							
Toluene	ND	0.0025	"							
Ethylbenzene	ND	0.0025	"							
m,p-Xylene	ND	0.0050	"							
o-Xylene	ND	0.0025	"							
Acetone	ND	0.0025	"							
Methyl ethyl ketone	ND	0.0050	"							
Methyl isobutyl ketone	ND	0.0050	"							
2-Hexanone (MBK)	ND	0.0025	"							
Surrogate: Toluene-d8	*0.0499*		"	*0.0500*		*99.7*	*76.1-127*			
Surrogate: 4-Bromofluorobenzene	*0.0476*		"	*0.0500*		*95.3*	*85.9-114*			
Surrogate: Dibromofluoromethane	*0.0520*		"	*0.0500*		*104*	*77.8-142*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120305 - EPA 5035 GCMS										
LCS (1120305-BS1)				Prepared: 12/03/21 Analyzed: 12/04/21						
Chlorobenzene	0.0484	0.0025	mg/kg	0.0500		96.8	79.1-117			
1,1-Dichloroethene	0.0552	0.0025	"	0.0500		110	68-126			
Trichloroethene	0.0497	0.0025	"	0.0500		99.4	80.6-119			
Benzene	0.0498	0.0025	"	0.0500		99.6	79.1-117			
Toluene	0.0460	0.0025	"	0.0500		92.0	79.5-118			
Surrogate: Toluene-d8	*0.0469*		*"*	*0.0500*		*93.7*	*76.1-127*			
Surrogate: 4-Bromofluorobenzene	*0.0575*		*"*	*0.0500*		*115*	*85.9-114*			*S-13*
Surrogate: Dibromofluoromethane	*0.0538*		*"*	*0.0500*		*108*	*77.8-142*			
LCS Dup (1120305-BSD1)				Prepared: 12/03/21 Analyzed: 12/04/21						
Chlorobenzene	0.0478	0.0025	mg/kg	0.0500		95.6	79.1-117	1.19	20	
1,1-Dichloroethene	0.0549	0.0025	"	0.0500		110	68-126	0.545	20	
Trichloroethene	0.0500	0.0025	"	0.0500		99.9	80.6-119	0.562	20	
Benzene	0.0496	0.0025	"	0.0500		99.3	79.1-117	0.282	20	
Toluene	0.0468	0.0025	"	0.0500		93.7	79.5-118	1.83	20	
Surrogate: Toluene-d8	*0.0490*		*"*	*0.0500*		*98.0*	*76.1-127*			
Surrogate: 4-Bromofluorobenzene	*0.0560*		*"*	*0.0500*		*112*	*85.9-114*			
Surrogate: Dibromofluoromethane	*0.0539*		*"*	*0.0500*		*108*	*77.8-142*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120739 - EPA 3550 ECD/GCMS										
Blank (1120739-BLK1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Carbazole	ND	0.30	mg/kg							
Phenol	ND	1.0	"							
Aniline	ND	0.30	"							
2-Chlorophenol	ND	1.0	"							
1,4-Dichlorobenzene	ND	0.30	"							
N-Nitrosodi-n-propylamine	ND	0.30	"							
1,2,4-Trichlorobenzene	ND	0.30	"							
4-Chloro-3-methylphenol	ND	1.0	"							
2-Methylnaphthalene	ND	0.30	"							
1-Methylnaphthalene	ND	0.30	"							
Acenaphthene	ND	0.30	"							
4-Nitrophenol	ND	1.0	"							
2,4-Dinitrotoluene	ND	0.30	"							
Pentachlorophenol	ND	1.0	"							
Pyrene	ND	0.30	"							
Acenaphthylene	ND	0.30	"							
Anthracene	ND	0.30	"							
Benzo (a) anthracene	ND	0.30	"							
Benzo (b) fluoranthene	ND	0.30	"							
Benzo (k) fluoranthene	ND	0.30	"							
Benzo (g,h,i) perylene	ND	1.0	"							
Benzo (a) pyrene	ND	0.30	"							
Benzyl alcohol	ND	0.30	"							
Bis(2-chloroethoxy)methane	ND	0.30	"							
Bis(2-chloroethyl)ether	ND	0.30	"							
Bis(2-chloroisopropyl)ether	ND	0.30	"							
Bis(2-ethylhexyl)phthalate	ND	0.30	"							
4-Bromophenyl phenyl ether	ND	0.30	"							
Butyl benzyl phthalate	ND	0.30	"							
4-Chloroaniline	ND	0.30	"							
2-Chloronaphthalene	ND	0.30	"							
4-Chlorophenyl phenyl ether	ND	0.30	"							
Chrysene	ND	0.30	"							
Dibenz (a,h) anthracene	ND	0.30	"							
Dibenzofuran	ND	0.30	"							
Di-n-butyl phthalate	ND	0.30	"							

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120739 - EPA 3550 ECD/GCMS										
Blank (1120739-BLK1)				Prepared: 12/07/21 Analyzed: 12/09/21						
1,2-Dichlorobenzene	ND	0.30	mg/kg							
1,3-Dichlorobenzene	ND	0.30	"							
2,4-Dichlorophenol	ND	1.0	"							
Diethyl phthalate	ND	0.30	"							
2,4-Dimethylphenol	ND	1.0	"							
Dimethyl phthalate	ND	0.30	"							
4,6-Dinitro-2-methylphenol	ND	1.0	"							
2,4-Dinitrophenol	ND	1.0	"							
2,6-Dinitrotoluene	ND	1.0	"							
Di-n-octyl phthalate	ND	0.30	"							
Fluoranthene	ND	0.30	"							
Fluorene	ND	0.30	"							
Hexachlorobenzene	ND	1.5	"							
Hexachlorobutadiene	ND	0.30	"							
Hexachlorocyclopentadiene	ND	1.0	"							
Hexachloroethane	ND	0.30	"							
Indeno (1,2,3-cd) pyrene	ND	0.30	"							
Isophorone	ND	0.30	"							
2-Methylphenol	ND	1.0	"							
4-Methylphenol	ND	1.0	"							
Naphthalene	ND	0.30	"							
2-Nitroaniline	ND	0.30	"							
3-Nitroaniline	ND	0.30	"							
4-Nitroaniline	ND	0.30	"							
Nitrobenzene	ND	1.0	"							
2-Nitrophenol	ND	1.0	"							
N-Nitrosodimethylamine	ND	0.30	"							
N-Nitrosodiphenylamine	ND	0.30	"							
2,3,5,6-Tetrachlorophenol	ND	0.30	"							
2,3,4,6-Tetrachlorophenol	ND	0.30	"							
Phenanthrene	ND	0.30	"							
Azobenzene	ND	0.30	"							
Pyridine	ND	0.30	"							
2,4,5-Trichlorophenol	ND	1.0	"							
2,4,6-Trichlorophenol	ND	1.0	"							

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120739 - EPA 3550 ECD/GCMS										
Blank (1120739-BLK1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Surrogate: 2-Fluorophenol	*3.29*		*mg/kg*	*3.33*		*98.6*	*15-121*			
Surrogate: Phenol-d6	*3.32*		*"*	*3.33*		*99.5*	*24-113*			
Surrogate: Nitrobenzene-d5	*3.58*		*"*	*3.33*		*107*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*3.30*		*"*	*3.33*		*99.0*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*3.09*		*"*	*3.33*		*92.8*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3.96*		*"*	*3.33*		*119*	*29.1-130*			
LCS (1120739-BS1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Phenol	3.17	1.0	mg/kg	3.33		95.1	34-114			
2-Chlorophenol	2.95	1.0	"	3.33		88.5	34-114			
1,4-Dichlorobenzene	2.90	0.30	"	3.33		86.9	34-114			
N-Nitrosodi-n-propylamine	3.34	0.30	"	3.33		100	30-110			
1,2,4-Trichlorobenzene	2.85	0.30	"	3.33		85.6	39-119			
4-Chloro-3-methylphenol	3.34	1.0	"	3.33		100	50-130			
Acenaphthene	2.70	0.30	"	3.33		81.1	34-114			
Pentachlorophenol	3.42	1.0	"	3.33		103	50-130			
Pyrene	2.14	0.30	"	3.33		64.3	33.7-123			
Surrogate: 2-Fluorophenol	*3.31*		*"*	*3.33*		*99.2*	*15-121*			
Surrogate: Phenol-d6	*3.36*		*"*	*3.33*		*101*	*24-113*			
Surrogate: Nitrobenzene-d5	*3.55*		*"*	*3.33*		*107*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*3.33*		*"*	*3.33*		*100*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*3.20*		*"*	*3.33*		*96.0*	*18.1-105*			
Surrogate: Terphenyl-dl4	*4.08*		*"*	*3.33*		*122*	*29.1-130*			
LCS Dup (1120739-BSD1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Phenol	3.21	1.0	mg/kg	3.33		96.2	34-114	1.14	42	
2-Chlorophenol	2.97	1.0	"	3.33		89.1	34-114	0.653	40	
1,4-Dichlorobenzene	2.89	0.30	"	3.33		86.7	34-114	0.242	28	
N-Nitrosodi-n-propylamine	3.39	0.30	"	3.33		102	30-110	1.39	38	
1,2,4-Trichlorobenzene	2.87	0.30	"	3.33		86.0	39-119	0.478	28	
4-Chloro-3-methylphenol	3.26	1.0	"	3.33		97.8	50-130	2.43	42	
Acenaphthene	2.67	0.30	"	3.33		80.2	34-114	1.10	31	
Pentachlorophenol	3.42	1.0	"	3.33		103	50-130	0.127	50	
Pyrene	2.11	0.30	"	3.33		63.4	33.7-123	1.44	31	
Surrogate: 2-Fluorophenol	*3.27*		*"*	*3.33*		*98.2*	*15-121*			
Surrogate: Phenol-d6	*3.40*		*"*	*3.33*		*102*	*24-113*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120739 - EPA 3550 ECD/GCMS										
LCS Dup (1120739-BSD1)				Prepared: 12/07/21 Analyzed: 12/09/21						
Surrogate: Nitrobenzene-d5	*3.54*		*mg/kg*	*3.33*		*106*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*3.34*		*"*	*3.33*		*100*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*3.15*		*"*	*3.33*		*94.5*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3.95*		*"*	*3.33*		*119*	*29.1-130*			

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 09:18

Notes and Definitions

S-13	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of surrogates in client samples and remaining QC including CCV.
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Krazan & Associates, Inc. CORPORATE: 215 W. Dakota Avenue, Clovis, CA 93612, (559) 348-2200, FAX (559) 348-2190

CHAIN-OF-CUSTODY RECORD

DATE: 12/02/21 **Lab ID:** T213694

Client:	**Krazan & Associates, Inc.**
Address:	**215 W. Dakota Ave. Clovis, California 92612**
Sampled By:	**Mark Edwards**
Phone:	**(559) 348-2200**
FAX:	**(559) 348-2201**
Project Manager:	**Mark Edwards**
Project Job:	**Rocha Property 014-21164**

	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container #	Container Type	TPH-cc 8015	VOCs 8260/5035	SVOCs 8270	CAM-17 6010/7471	OCPs 8081	Lead 6010
1	B1-15	12/2/21	10:10	Soil	4	sleeve/voas	X	X				X
2	B2-15	12/2/21	10:25	Soil	4	sleeve/voas	X	X				X
3	B3-0.5	12/2/21	10:57	Soil	1	Sleeve				X	X	
4	B3-2.5	12/2/21	11:00	Soil	1	Sleeve				X	X	
5	B4-0.5	12/2/21	11:06	Soil	1	Sleeve				X	X	
6	B4-2.5	12/2/21	11:09	Soil	1	Sleeve				X	X	
7	B5-0.5	12/2/21	11:26	Soil	4	sleeve/voas	X	X	X	X		
8	B5-2.5	12/2/21	11:29	Soil	4	sleeve/voas	X	X	X	X		
9												
10												
11												
12												

REQUESTED ANALYSIS

Correct Containers:			
Sample Temperature:			
Sample Preservative:			
Turnaround Time:	**Standard**	Specify:	

Comments:

RELINQUISHED BY		**RECEIVED BY**	
Signature:		Signature:	
Print:	Mark Edwards	Print:	
Company:	Krazan & Associates	Company:	
Date:	12/02/21 Time: 315	Date:	Time:
Signature:		Signature:	
Print:		Print:	David Berner
Company:	Fed Ex	Company:	Sun Star Labs
Date:	12-3-21 Time: 1140	Date:	12-3-21 Time: 1140
Signature:		Signature:	
Print:		Print:	
Company:		Company:	
Date:	Time:	Date:	Time:

3.5°C

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Rev. 02 Date 07/19
Receiving Form 001

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T213694

Client Name: Krazan Project: Rocha Property 014-21164

Delivered by: ☐ Client ☐ SunStar Courier ☐ GLS ☒ FedEx ☐ UPS

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Dave Date/Time Lab Received: 12.3.21 1140

Total number of coolers received: 1 Thermometer ID: SC-1 Calibration due :8/24/22

Temperature:	Cooler #1 3.4	°C +/- the CF (+0.1 °C) = 3.5	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (°C) =	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No** ☐ **N/A**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: AB 12-3-21

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T213694

Client:	**Krazan, Clovis**	**Project Manager:**	**Jeff Lee**
Project:	**Rocha Property**	**Project Number:**	**014-21164**

Report To:

Krazan, Clovis
Mark D. Edwards
215 West Dakota Avenue
Clovis, CA 93612

Date Due:	12/10/21 17:00 (5 day TAT)		
Received By:	Dave Berner	Date Received:	12/03/21 11:40
Logged In By:	Jeff Lee	Date Logged In:	12/03/21 15:02

Samples Received at:	**3.5°C**		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	No		

Analysis	Due	TAT	Expires	Comments
T213694-01 B1-15 [Soil] Sampled 12/02/21 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	12/10/21 15:00	5	05/31/22 10:10	Pb only
8015 Carbon Chain	12/10/21 15:00	5	12/16/21 10:10	
8260 5035	12/08/21 15:00	3	12/16/21 23:59	
T213694-02 B2-15 [Soil] Sampled 12/02/21 10:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	12/10/21 15:00	5	05/31/22 10:25	Pb only
8015 Carbon Chain	12/10/21 15:00	5	12/16/21 10:25	
8260 5035	12/08/21 15:00	3	12/16/21 23:59	
T213694-03 B3-0.5 [Soil] Sampled 12/02/21 10:57 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 10:57	
8081 Pesticides	12/10/21 15:00	5	12/16/21 10:57	
T213694-04 B3-2.5 [Soil] Sampled 12/02/21 11:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 11:00	
8081 Pesticides	12/10/21 15:00	5	12/16/21 11:00	
T213694-05 B4-0.5 [Soil] Sampled 12/02/21 11:06 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 11:06	
8081 Pesticides	12/10/21 15:00	5	12/16/21 11:06	

Page 1 of 2

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T213694

Client:	**Krazan, Clovis**	**Project Manager:**	**Jeff Lee**
Project:	**Rocha Property**	**Project Number:**	**014-21164**

Analysis	Due	TAT	Expires	Comments
T213694-06 B4-2.5 [Soil] Sampled 12/02/21 11:09 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 11:09	
8081 Pesticides	12/10/21 15:00	5	12/16/21 11:09	
T213694-07 B5-0.5 [Soil] Sampled 12/02/21 11:26 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 11:26	
8015 Carbon Chain	12/10/21 15:00	5	12/16/21 11:26	
8260 5035	12/08/21 15:00	3	12/16/21 23:59	
8270C	12/10/21 15:00	5	12/16/21 11:26	
T213694-08 B5-2.5 [Soil] Sampled 12/02/21 11:29 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/10/21 15:00	5	05/31/22 11:29	
8015 Carbon Chain	12/10/21 15:00	5	12/16/21 11:29	
8260 5035	12/08/21 15:00	3	12/16/21 23:59	
8270C	12/10/21 15:00	5	12/16/21 11:29	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By

Date

Page 2 of 2

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 December 2021

Mark D. Edwards
Krazan, Clovis
215 West Dakota Avenue
Clovis, CA 93612

RE: Rocha Property

Enclosed are the results of analyses for samples received by the laboratory on 12/07/21 10:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jeff Lee
Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG1	T213718-01	Air	12/03/21 16:10	12/07/21 10:35
SG2	T213718-02	Air	12/03/21 16:32	12/07/21 10:35

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

DETECTIONS SUMMARY

Sample ID: SG1 **Laboratory ID:** T213718-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**27**	12	ug/m³ Air	TO-15	
Isopropyl alcohol	**2.7**	13	ug/m³ Air	TO-15	J
Styrene	**17**	4.3	ug/m³ Air	TO-15	
1,2,4-Trimethylbenzene	**1.6**	5.0	ug/m³ Air	TO-15	J
2-Butanone (MEK)	**3.5**	15	ug/m³ Air	TO-15	J
Benzene	**2.7**	3.3	ug/m³ Air	TO-15	J
Toluene	**6.3**	3.8	ug/m³ Air	TO-15	
m,p-Xylene	**4.6**	8.8	ug/m³ Air	TO-15	J

Sample ID: SG2 **Laboratory ID:** T213718-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**29**	12	ug/m³ Air	TO-15	
Isopropyl alcohol	**4.1**	13	ug/m³ Air	TO-15	J
1,2,4-Trimethylbenzene	**2.1**	5.0	ug/m³ Air	TO-15	J
2-Butanone (MEK)	**4.2**	15	ug/m³ Air	TO-15	J
Toluene	**3.7**	3.8	ug/m³ Air	TO-15	J
m,p-Xylene	**5.5**	8.8	ug/m³ Air	TO-15	J



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

SG1

T213718-01(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**27**	0.49	12	ug/m³ Air	1.82	1120922	12/09/21	12/10/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	**2.7**	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

SG1

T213718-01(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	**17**	0.19	4.3	ug/m³ Air	1.82	1120922	12/09/21	12/10/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.6**	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	**3.5**	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	**2.7**	0.14	3.3	"	"	"	"	"	"	J
Toluene	**6.3**	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	**4.6**	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	3.3	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*95.8 %*	*59.2-130*		"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

SG2

T213718-02(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**29**	0.49	12	ug/m³ Air	1.82	1120922	12/09/21	12/10/21	TO-15	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	**4.1**	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	
Methylene chloride	ND	0.079	27	"	"	"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

SG2

T213718-02(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Styrene	ND	0.19	4.3	ug/m³ Air	1.82	1120922	12/09/21	12/10/21	TO-15	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2.1**	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	**4.2**	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	**3.7**	0.14	3.8	"	"	"	"	"	"	J
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	**5.5**	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (Freon 152)	ND	3.3	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*97.4 %*	*59.2-130*		"	"	"	"	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120922 - Canister Analysis											
Blank (1120922-BLK1)				Prepared: 12/09/21 Analyzed: 12/10/21							
Surrogate: 4-Bromofluorobenzene	*349*			*ug/m³ Air*	*362*		*96.4*	*59.2-130*			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120922 - Canister Analysis											
Blank (1120922-BLK1)					Prepared: 12/09/21 Analyzed: 12/10/21						
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air							
trans-1,2-Dichloroethene	ND	0.22	4.0	"							
1,2-Dichloropropane	ND	0.13	4.7	"							
cis-1,3-Dichloropropene	ND	0.21	4.6	"							
trans-1,3-Dichloropropene	ND	0.21	4.6	"							
4-Ethyltoluene	ND	0.25	5.0	"							
Methylene chloride	ND	0.079	27	"							
Styrene	ND	0.19	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"							
Tetrahydrofuran	ND	0.25	3.0	"							
Tetrachloroethene	ND	0.21	6.9	"							
1,1,2-Trichloroethane	ND	0.19	5.6	"							
1,1,1-Trichloroethane	ND	0.24	5.6	"							
Trichloroethene	ND	0.21	5.5	"							
Trichlorofluoromethane	ND	0.24	5.7	"							
1,3,5-Trimethylbenzene	ND	0.49	5.0	"							
1,2,4-Trimethylbenzene	ND	0.33	5.0	"							
Vinyl acetate	ND	0.18	3.6	"							
Vinyl chloride	ND	0.052	2.6	"							
1,4-Dioxane	ND	0.97	18	"							
2-Butanone (MEK)	ND	0.45	15	"							
Methyl isobutyl ketone	ND	0.14	42	"							
Benzene	ND	0.14	3.3	"							
Toluene	ND	0.14	3.8	"							
Ethylbenzene	ND	0.14	4.4	"							
m,p-Xylene	ND	0.20	8.8	"							
o-Xylene	ND	0.085	4.4	"							

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120922 - Canister Analysis											
Blank (1120922-BLK1)					Prepared: 12/09/21 Analyzed: 12/10/21						
1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m³ Air							
Duplicate (1120922-DUP1)			**Source: T213718-01**		Prepared: 12/09/21 Analyzed: 12/10/21						
Surrogate: 4-Bromofluorobenzene	*345*			*ug/m³ Air*	*362*		*95.2*	*59.2-130*			
Acetone	28.6	0.49	12	"		27.3			4.87	30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	2.55	0.55	13	"		2.73			6.90	30	J
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	20	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.46	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.43	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120922 - Canister Analysis											
Duplicate (1120922-DUP1)		**Source: T213718-01**		Prepared: 12/09/21 Analyzed: 12/10/21							
1,2-Dichloroethane	ND	0.16	4.1	ug/m³ Air		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	0.25	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND				30	
1,2-Dichloropropane	ND	0.13	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
4-Ethyltoluene	ND	0.25	5.0	"		ND				30	
Methylene chloride	ND	0.079	27	"		ND				30	
Styrene	17.1	0.19	4.3	"		17.4			1.83	30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND				30	
Tetrahydrofuran	ND	0.25	3.0	"		ND				30	
Tetrachloroethene	ND	0.21	6.9	"		ND				30	
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	0.24	5.6	"		ND				30	
Trichloroethene	ND	0.21	5.5	"		ND				30	
Trichlorofluoromethane	ND	0.24	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"		1.64				30	DUP-01
Vinyl acetate	ND	0.18	3.6	"		ND				30	
Vinyl chloride	ND	0.052	2.6	"		ND				30	
1,4-Dioxane	ND	0.97	18	"		ND				30	
2-Butanone (MEK)	3.76	0.45	15	"		3.54			5.97	30	J
Methyl isobutyl ketone	ND	0.14	42	"		ND				30	
Benzene	2.54	0.14	3.3	"		2.66			4.55	30	J
Toluene	6.42	0.14	3.8	"		6.28			2.20	30	
Ethylbenzene	ND	0.14	4.4	"		ND				30	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120922 - Canister Analysis											
Duplicate (1120922-DUP1)		**Source: T213718-01**			Prepared: 12/09/21 Analyzed: 12/10/21						
m,p-Xylene	4.74	0.20	8.8	ug/m³ Air		4.58			3.45	30	J
o-Xylene	ND	0.085	4.4	"		ND				30	
1,1-Difluoroethane (Freon 152)	ND	3.3	27	"		ND				30	

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis	Project: Rocha Property	
215 West Dakota Avenue	Project Number: 014-21164	**Reported:**
Clovis CA, 93612	Project Manager: Mark D. Edwards	12/13/21 17:10

Notes and Definitions

J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DUP-01	The RPD result exceeded the QC control limits for this analyte; sample results for the QC batch were accepted based on acceptable RPD for remaining analytes as well as acceptable BS and/or CCV recoveries.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Krazan
Address: 215 W. Dakota Ave. 93612
Phone: 559.348-2200 Fax: 559.348-2201
Project Manager: MARK EDWARDS

Date: Dec. 3, 2021 Page: 1 Of 1
Project Name: ROCHA PROPERTY
Collector: M. EDWARDS Client Project #: 01+21164
Batch #: T213718 EDF #:

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15 BTEX ONLY	Methane by GC - FID	Fixed Gases by TCD	RSK - 175	1,1 DFA (TRACER)	Summa Can, Manifold # / Comments
01	SG1	12-3	4:10	4:17	SG	Summa	-30	-7			X				X	0270
02	SG 2	12-3	4:32	4:40	SG	Summa	-30	-7			X				X	0458

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	12/6 330pm	PP	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Fed Ex	12/7/21 10:35		12/7/21 10:35
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers	
Chain of Custody seals Y/N/NA	N
Seals intact? Y/N/NA	NA
Received good condition/cold	✓

Turn around time: STANDARD

Notes

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T213718

Client Name: Krazan Project: Rocha Property

Delivered by: ☐ Client ☐ SunStar Courier ☐ GLS ☑ FedEx ☐ UPS

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Paul Date/Time Lab Received: 12/7/21 10:35

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration due :8/24/22

Temperature: Cooler #1	°C +/- the CF (+0.1 °C) = N/A	°C corrected temperature	
Temperature: Cooler #2	°C +/- the CF (°C) =	°C corrected temperature	
Temperature: Cooler #3	°C +/- the CF (°C) =	°C corrected temperature	
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☐ Yes ☐ No ☑ N/A	
If NO:			
Samples received on ice?	☐ Yes	☐ No → **Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → **Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☑ N/A
Sample containers intact	☑ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☑ Yes	☐ No*	
Total number of containers received match COC	☑ Yes	☐ No*	
Proper containers received for analyses requested on COC	☐ Yes	☑ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☑ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☑ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: PB 12/7/21

Comments: Sample # 2 is contained in a purge can.

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T213718

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☐ Samples **NOT RECEIVED** but listed on COC
  - ☐ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☑ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ VOA vial(s) containing headspace >6mm
  - ☐ Other

Project Manager notified of sample non-conformance(s) ☑ Yes ☐ No

All samples accepted for processing and distributing to laboratory(ies) ☑ Yes ☐ No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

T213718

* PLEASE DO ***NOT*** WRITE ON OR PLACE LABELS ON SUMMA CANS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Canister Data Sheet

Client: KRAZAN_MARK_11-30-21_6+2_PO 014-21164

Vacuum Gauge: REC-3	**Used to Verify:**		**SN: 145026**	**Caibrated On:**	8/4/2021	**Next Calibration Due:**		8/4/2022	
Vacuum Gauge: REC-4	**Used to Verify:**		**SN: 145025**	**Caibrated On:**	8/4/2021	**Next Calibration Due:**		8/4/2022	
Canister Serial #	**CHECK Date**	**Pressure (-28 -to -30 InHg)**	**Sample ID**	**Sample Date**	**Initial Pressure**	**Final Pressure**	**Sample Start Time**	**Sample Finish Time**	
SSAT: 0487	11/30/2021	-30							
SSAT: 0270	11/30/2021	-30							
SSAT: 0613	11/30/2021	-30							
SSAT: 0868	11/30/2021	-30	PURGE CAN						
SSAT: 0458	11/30/2021	-30	PURGE CAN						
SSAT: 0635	11/30/2021	-30	PURGE CAN						
SSAT: 3037	11/30/2021	N.A.	MANIFOLD(150)						
SSAT: 8657	11/30/2021	N.A.	MANIFOLD(150)						

ONE LEAKED

SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

T213718

Project Name: PO 014-21164					Rebecca
Company: KRAZAN					
Name: MARK EDWARDS					
Item		Quantity		Unit	
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS .					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 24/CS					
500 ml Poly 16/CS					
1 Liter Poly 12/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
	(1) Methanol VOA 72/box				
	(1) SYRINGES				
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L	2+1	CHARGE 2	1	0
	3L				
	6L				
Purge cans		3	NO CHARGE	0	0
Nitrogen cans	1L				
Ind. Cerified Summa Cannisters	1L				
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					TB
Manifolds: Inst. Sampler, Variable Sampler, Shut In Set Ups, 150ml/mn, 63ml/mn		2 MANIFOLDS (150)		CHARGE 1	2 RETURNED
Swagelok Fittings: Nuts/Ferrules, Ts		3 N/Fs		CHARGE 2	1 RETURNED
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves,Silicon Tape, etc.					
Prepared By:	TB		Date:	11/30/21	
Reviewed By:			Date:		
Comments:					

Cooler Policy: Failure to return cooler(s) within 30 days of receipt or if the returned cooler(s) are in unusable condition, will result in a $50 per cooler fee for replacement costs.

Check In Report

T213718

gigatrak.

Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
8657	150 cc		12/7/2021 10:55 AM		Krazan-Mark	SunStar Labs South		
3037X	Vapor Manifold		12/7/2021 10:55 AM	Excellent	Krazan-Mark	SunStar Labs South		
0613	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		
0270	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		
0487	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		
0635	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		
0458	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		
0868	1000 cc		12/7/2021 10:56 AM		Krazan-Mark	SunStar Labs South		

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T213718

Client:	**Krazan, Clovis**	**Project Manager:**	**Jeff Lee**
Project:	**Rocha Property**	**Project Number:**	**014-21164**

Report To:

Krazan, Clovis
Mark D. Edwards
215 West Dakota Avenue
Clovis, CA 93612

Date Due:	12/16/21 00:00 (7 day TAT)		
Received By:	Paul Berner	Date Received:	12/07/21 10:35
Logged In By:	Jennifer Berger	Date Logged In:	12/07/21 13:25

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	No		

Analysis	Due	TAT	Expires	Comments
T213718-01 SG1 [Air] Sampled 12/03/21 16:10 (GMT-08:00) Pacific Time (US &				
TO-15	12/16/21 00:00	7	01/02/22 16:10	+ 1,1-DFA
T213718-02 SG2 [Air] Sampled 12/03/21 16:32 (GMT-08:00) Pacific Time (US &				
TO-15	12/16/21 00:00	7	01/02/22 16:32	+ 1,1-DFA

Reviewed By

Date

Appendix G

FRESNO GREENHOUSE GAS (GHG) REDUCTION PLAN UPDATE

CEQA PROJECT CONSISTENCY CHECKLIST

March 2021

City of FRESNO

Fresno Greenhouse Gas (GHG) Reduction Plan Update – CEQA Project Consistency Checklist

INTRODUCTION

The City of Fresno updated its 2014 Greenhouse Gas (GHG) Reduction Plan (the Plan) in the year 2021 to conform with existing applicable State climate change policies and regulations. The GHG Plan Update outlines strategies that the City will undertake to achieve its proportional share of GHG emission reductions. The purpose of this GHG Reduction Plan Update Consistency Checklist (Checklist) is to help the City provide a streamlined review process for new development projects that are subject to discretionary review pursuant to the California Environmental Quality Act (CEQA) Guidelines Section 15183.5.

This Checklist has been developed as part of the GHG Plan Update implementation and monitoring process and will support the achievement of individual GHG reduction strategies as well as the City's overall GHG reduction goals. In addition, this Checklist will further the City's sustainability goals and policies that encourage sustainable development and aim to conserve and reduce the consumption of resources, such as energy and water. Projects that meet the requirements of this Checklist will be deemed to be consistent with the Fresno GHG Reduction Plan Update and will be found to have a less than significant contribution to cumulative GHG (i.e., the project's incremental contribution to cumulative GHG effects is not cumulatively considerable), pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b). Projects that do not meet the requirements in this Checklist will be deemed to be inconsistent with the Fresno GHG Reduction Plan Update and must prepare a project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. This GHG Checklist can be updated to reflect adoption of new GHG reduction strategies or to comply with any changes and updates in the Plan or local, State or federal regulations. Note that not all the measures in the checklist are applicable to all projects. The projects should comply with applicable measures from the checklist.

1. Project Information	
Contact Information	
Project No./Name:	Vesting Tract No. T-6400/P22-001515
Address:	Southwest corner of Clinton Avenue and Armstrong Avenue in the City of Fresno, California
Applicant Name/Co:	Brandon De Young
Contact Information:	677 W Palmdon Drive, Suite 208
	Fresno, CA 93704
Project Information	
1. What is the Site acreage of the Project?	13 acres
2. Identify all Applicable Proposed Land uses:	Residential Medium Density
a. Residential (Indicate number of single-family units)	72
b. Residential (Indicate number of multi-family units)	
c. Commercial (total square footage)	
d. Industrial (total square footage)	
e. Other (describe)	
3. Is the project or a portion of the project located in a transit priority area? (Y/N)	No
4. Provide a brief description of the project proposed:	The applicant proposes the construction of Tentative Tract Map (TTM) 6400, 72 single-family residences along with the associated road and utility improvements, and 27,777 square feet of public trail and open space on approximately 13 acres of land (Project) consistent with the zoning classification of RS-5 Medium Density Residential.

2. Determining Land Use Consistency		
Checklist Item		
As the first step in determining the consistency with the GHG Reduction Plan for discretionary development projects, this section allows the City to determine the project's consistency with the land use assumptions used in the GHG Reduction Plan.		
	Yes	**No**
1. Is the proposed project consistent with the approved General Plan, Specific Plan, and Community Plan planned land use and zoning designations? If the answer is **Yes**, then proceed to the GHG Plan Update Consistency Checklist. If the answer is **No**, then proceed to question 2.	Yes	
2. If the proposed project is not consistent with the approved planned land use and zoning designation(s), then provide estimated GHG project emissions under both existing and proposed designation(s) for comparison. Compare the maximum buildout of the existing designation with the maximum buildout of the proposed designation. If the estimated project emissions at maximum buildout of the proposed designation(s) **is equivalent to or less than** the estimated project emissions at maximum buildout of the existing designation(s), then in accordance with the City's Significance Determination Thresholds, the project's GHG impact is less than significant. If there is a proposed development project associated with this plan amendment and or rezone then complete the GHG Plan Update Consistency Checklist and incorporate applicable measures, otherwise there is no further step required. If the estimated project emission at maximum buildout of the proposed designation(s) is **greater than** the estimated project emissions at maximum buildout of the existing designation(s), then in accordance with the City's Significance Determination Thresholds, the project's GHG impact is significant. The project must either show consistency with applicable GP objectives and policies (provide applicable GP objectives and policies here) or provide analysis and measures to incorporate into the project to bring the GHG emissions to a level that is less than or equal to the estimated project emission at maximum buildout of the existing designation(s) unless the decision-maker finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091. If there is a proposed development project associated with this plan amendment and or rezone then complete the GHG Plan Update Consistency Checklist and incorporate applicable measures, otherwise there is no further step required.		

3. Greenhouse Gas (GHG) Reduction Plan Update - CEQA Project Consistency Checklist

GHG Reduction Plan Update consistency review involves the evaluation of project consistency with the applicable strategies of the GHG Reduction Plan Update. The GHG reduction strategies identified in the GHG Reduction Plan Update relies upon the General Plan and additional local measures as the basis of the development related strategies to reduce GHG emissions. This checklist is developed based on the key local GHG reduction strategies and actions identified in the GHG Reduction Plan Update that are applicable to proposed development projects. Note that not all strategies listed below will apply to all projects. For example, not all projects will meet mixed-use related policies of the General Plan, because not all projects are required to be mixed use.

Checklist Item (Check the appropriate box and provide an explanation for your answer)	Relevant General Plan Policy	Yes	No	Not Applicable (NA)	Explanation
1: Land Use and Transportation Demand Strategies					
a. Does the project include mixed-use, development? For GHG Reduction Plan consistency, mixed-use development is defined as pedestrian-friendly development that blends two or more residential, commercial, cultural, or institutional, uses, one of which must be residential	Policy UF-1-c, LU-3-b, Objective-UF 12, UF-12-a, UF-12-b, UF-12-d, Policy RC-2-a	X			The project includes 72 single-family units and 27,777 sq ft of public trail and open space.
b. Is the project high density? For GHG Reduction Plan consistency, is the project developed at 12 units per acre or higher?	LU-5-f		X		There will be 72 units on 13 acres of land. (5.54 du/ac)
c. Is the project infill development, pursuant to the General Plan definition of location within the City limits as of December 31, 2012?	LU-2-a, Objective-12, UF-12-a, UF-12-b, UF-12-d		X		The project site is currently undeveloped.
d. Does the project implement pedestrian bicycle, and transit linkages with surrounding land uses and neighborhoods? For GHG Reduction Plan consistency, the project must include all sidewalks, paths, trails, and facilities required by the General Plan and Active Transportation Plan, as implemented through the Fresno Municipal Code and project conditions of approval.	Policy UF-1-c, UF-12-e, Policy RC-2-a, Objective MT-4,5,6, Policy MT-4-c, Policy MT-6-a, Policy POSS-7-h Objective MT 8, Policies MT-8-a, MT-8-b	X			The project includes sidewalks, and the trail and open space as required by the General Plan.
e. If the project includes mixed-use or high density development, is it located within ½ mile of a High Quality Transit Area as defined in the City's CEQA Guidelines for Vehicle Miles Traveled? Or, is the project located within 500 feet of an existing or planned transit stop?	Policy UF-12-a, UF-12-b, LU-3-b, Objective MT 8, Policies MT-8-a, MT-8-b		X		The project is not within 1/2 mile of a High Quality Transit Area and is not a high density development.
f. Will the project accommodate a large employer (over 100 employees) and will it implement trip reduction programs such as increasing transit use, carpooling, vanpooling, bicycling, or other measures to reduce vehicle miles traveled pursuant to San Joaquin Valley Air Pollution Control District Rule 9410? See the SJVAPCD website for details: https://www.valleyair.org/rules/currntrules/r9410.pdf	Policy MT-8-b, Objective MT-9, Policy MT-10-c, San Joaquin Valley Air Pollution Control District Rule 9410		X		The project is residential and will not have large employers that would increase transit use.

Checklist Item (Check the appropriate box and provide an explanation for your answer)	Relevant General Plan Policy	Yes	No	Not Applicable (NA)	Explanation
g. If the project includes modifications to the transportation network, do those improvements meet the requirements of the City of Fresno's Complete Streets Policy, adopted in October 2019? According to the policy, a complete street is a transportation facility that is planned, designed, operated, and maintained to provide safe mobility for all users - including bicyclists, pedestrians, transit vehicles, trucks, and motorists - appropriate to the function and context of the facility while connecting to a larger transportation network. See City of Fresno website for details: https://www.fresno.gov/publicworks/wp-content/uploads/sites/17/2019/10/Complete-Streets-091119.pdf	MT-1-g, MT-1-h		X		The project will not require modifications to the transportation network.
h. Does the project have a less than significant VMT impact, either through satisfying screening criteria or mitigating VMT impacts, pursuant to the City's adopted VMT thresholds? See City of Fresno website for details: https://www.fresno.gov/darm/wp-content/uploads/sites/10/2021/01/CEQA-Guidelines-for-Vehicle-Miles-Traveled-Final-Adopted-Version.pdf	MT-2-b, MT-2-c	X			The project's location is within an area of low VMT per the VMT Screening Map.
2: Electric Vehicle Strategies					
a. For new multi-family dwelling units with parking, does the project provide EV charging spaces capable of supporting future EV supply equipment (EV capable) at 10% of the parking spaces per 2019 California Green Building Standards Code (CALGREEN, Title 24, Part 11), Section 4.106.4	Policy RC-8-j		X		The project is a single-family residential development. There will not be any multi-family parking.
b. For new commercial buildings, does project provide EV charging spaces capable of supporting EV capable spaces at 4% to 10% of the parking spaces per 2019 California Green Building Standards Code (CALGREEN, Title 24, Part 11), Section 5.106.5.3	Policy RC-8-j		X		The project is a single-family residential development. There will not be any commercial building parking.
3: Energy Conservation Strategies					
a. Does the project meet or exceed mandatory state building energy codes? If yes, does the project follow any other GreenPoint ratings such as LEED, Energy Star or others? If yes, indicate level of certification-Silver, gold, platinum if applicable?	Policy RC-5-c, Objective RC-8, Policy RC 8-a	X			The project will be built to California Building Code Standards.
b. For commercial projects, does the project achieve net zero emissions electricity? Mark NA if project will be permitted before 2030. Mark Yes if voluntary. Add source and capacity in explanation.	Additional Recommended GHG Plan Measure, supports Objective RC-8		X		This is not a commercial project.

Checklist Item (Check the appropriate box and provide an explanation for your answer)	Relevant General Plan Policy	Yes	No	Not Applicable (NA)	Explanation
4: Water Conservation Strategies					
a. Does the project meet or exceed the mandatory outdoor water use measures of the 2019 California Green Building Standards Code (CALGREEN, Title 24, Part 11), Section 4.304? If the project exceeds CalGreen Code mandatory measures provide methods in excess of requirements in the explanation. Examples include outdoor water conservation measures such as; drought tolerant landscaping plants, compliant irrigation systems, xeriscape, replacing turf etc. Provide the conservation measure that the project will include in the explanation.	Objective RC-7, Policy RC-7-a, RC-7-h	X			The Project will comply with Title 24 Energy Efficiency Standards and CalGreen Code requirements for solar-ready roofs and water conservation.
b. Does the project meet or exceed the mandatory indoor water use measures of the 2019 California Green Building Standards Code (CALGREEN, Title 24, Part 11), Section 4.303? If the project exceeds CalGreen Code, mandatory measures provide methods in excess of requirements in the explanation. Examples may include water conserving devices and systems such as water leak detection system, hot water pipe insulation, pressure reducing valves, energy efficient appliances such as Energy Star Certified dishwashers, washing machines, dual flush toilets, point of use and/or tankless water heaters.	Objective RC-7, Policy RC-7-a, RC-7-e	X			The project will implement the mandatory indoor water use measures of the CBC Title 24 standards.
5: Waste Diversion and Recycling Strategies					
a. Does the project implement techniques of solid waste segregation, disposal and reduction, such as recycling, composting, waste to energy technology, and/or waste separation, to reduce the volume of solid wastes that must be sent to landfill facilities?	Policy PU-9-a, RC-11-a	X			The project will require recyclable material collection within the new developments.
b. During construction will the project recycle construction and demolition waste?	Policy RC-11-a	X			During construction, the construction waste will be appropriately disposed or recycled.
c. Does the project provide recycling canisters in public areas where trashcans are also provided?	Policy RC-11-a	X			There will be recycling canisters wherever trashcans will be provided.

Note: The GHG reduction strategies included in this checklist are based on the GHG reduction strategies identified in the Chapter 5 of the GHG Reduction Plan Update.

Appendix H

City of Fresno
URBAN FORM VMT CALCULATOR

Basic Information

Project Name:	Rocha Property	
Applicant/Developer:	De Young Properties	
Major Cross Streets:	Clinton and Armstrong	
Project Address:	6361 E. Clinton Avenue	
APN(s):	574-050-02	
Gross Project Site Area:	12.65	acres
Baseline VMT from COG Calculator:	16.5	per capita
Calculation Run By:		
Date of Calculation:		

Land Use Information

Area dedicated to internal streets:	3.3	acres
Area of park space or other public open space:	0.6	acres
Net area of the project site (land avaialble for residential and commercial uses):	8.7	acres
Number of single family dwellings (attached and detached):	72.0	units
Number of multifamily dwellings (including ADUs and duplexes):	0.0	units
Total number of dwellings:	72.0	units
Number of affordable/BMR dwellings *(including single-family and multifamily)* :	0.0	units
Total office space within project:	0.0	square feet
Total retail and other non-residential space within the project *(excluding office and industrial*):	0.0	square feet
Average Front Setback of Residential Structures:	13.0	feet
Average Front Setback of Non-Residential Structures:	0.0	feet
Number of driveways serving residential uses:	72.0	driveways
Number of driveways serving non-residential uses	0.0	driveways
Number of dwelling units without dedicated parking:	0.0	units
Number of single family dwelling units with alley loaded parking:	0.0	units
Number of single family dwelling units with recessed garages	18.0	units
Number of pedestrian entrances into project buildings which face a street and are located within 20 feet of a sidewalk:	72.0	entrances

Project Perimeter and Connections

Length of project perimeter that is adjacent to major streets:	1,314.4	feet
Length of project perimeter that is adjacent to other sites *(developed or undeveloped)* :	1,866.9	feet
Total Length of project perimeter:	3,181.3	feet
Are there residential uses adjacent to non-residential uses *(including those inside and at the edge of the project, and including instances where a non-major street is the boundary)* :	Yes	
Length of the boundary between residential uses non-residential uses *(including those inside and at the edge of the project, and including instances where a non-major street is the boundary)* :	492.3	feet
Length of project perimeter that is adjacent to major streets that is occupied by residential uses:	1,314.4	
Length of project perimeter that is adjacent to major streets that is occupied by non-residential uses:	0.0	
Total number of ungated pedestrian connections *(a single street with 2 sidewalks counts as 1)* from residential part of project to adjacent non-residential use (including those inside and outside of the project):	3.0	connections
Total number of ungated automobile connections from the residential part of project to adjacent non-residential uses *(including those inside and outside of the project)* :	2.0	connections
Total number of ungated pedestrian connections *(a single street with 2 sidewalks counts as 1)* from project to adjacent development sites:	4.0	connections
Total number of ungated automobile connections from project to adjacent development sites:	2.0	connections
Total number of ungated pedestrian connections (a single street with 2 sidewalks counts as 1) from project to adjacent major streets:	4.0	connections
Total number of ungated automobile connections from project to adjacent major streets:	2.0	connections
Total number of controlled intersections on adjacent major streets:	1.0	intersections
Distance between the transit stop serving the project and the nearest pedestrian connection to the project *(following safe and legal pedestrian paths, not as the crow flies)* .	3,429.3	feet

Total length of all major streets within the project *(if applicable)* :	0.0	feet
Total length of all major streets, within the project and at the perimeter:	1,314.4	feet
Length of major street frontage with tall fencing *(over 4 feet in height)* or soundwalls:	1,314.4	feet
Average width of sidewalks on major streets, within the project and at the perimeter:	6.0	feet
Total length in feet of all protected bike lanes and off-street trails:	1,314.4	feet

Internal Street System

Does the project have internal streets *(include public and private streets)* ?	Yes	

If "No" leave the remaining cells blank and scroll down to see results of Urban Form VMT analysis.

Total length of internal streets *(excluding intersections, and excluding major streets)* :	2,911.7	feet
Total length of Residential Lot Frontage Facing Internal Streets:	5,479.6	feet
Total length of Non-Residential Lot Frontage Facing Internal Streets:	0.0	feet
Total length of all Lot Frontage Facing Internal Streets:	5,479.6	feet
Average block length:	438.0	feet
Average local street roadway width:	36.0	feet
Total number of intersections in project *(including those that connect to adjacent major streets)* :	6.0	intersections
Length of internal streets with two sidewalks:	2,911.7	feet
Length of internal streets with one sidewalk:	0.0	feet
Length of internal streets with no sidewalks:	0.0	feet
Total length of all sidewalks within project:	5,823.4	feet
Average residential sidewalk width:	5.5	feet
Average non-residential sidewalk width:	10.0	feet
Length of internal streets with parkway strips *(4 feet or wider)* :	0.0	feet
Total number of street trees *(only include those planted within the street right of way)* :	72.0	trees
Average diameter of street tree canopy, or *spread,* at maturity:	60.0	feet
Total number of pedestrian-scaled street lights *(18' feet high or less, within street right of way but not projecting over the roadway)* :	0.0	lights

Results of Urban Form VMT Analysis

Type of Project:	Residential Project

Baseline VMT For this Location (from COG model):	16.50	per capita
The urban form of this project warrants a VMT reduction of:	15.67%	
The adjusted VMT for this project is:	13.92	per capita
The the regional VMT threshold is:	14.01	per capita
This project exceeds exceeds the local VMT threshold by:	0.00	per capita
After analysis of its urban form, does this project still have a VMT impact which must be mitigated through a fee or other meaasure?	**NO**	