Appendix A

LIVERMORE
CALIFORNIA

DATE: January 6, 2023

TO: California State Clearinghouse
Responsible and Trustee Agencies
Interested Parties and Organizations

SUBJECT: **Notice of Preparation of an Environmental Impact Report for the Proposed SMP 38/SMP 39/SMP 40 Project**

REVIEW PERIOD: **January 6, 2023 to February 6, 2023**

The City of Livermore is the lead agency for the preparation of an Environmental Impact Report (EIR) for the SMP 38/SMP 39/SMP 40 Project (proposed project) in accordance with the California Environmental Quality Act (CEQA), Section 15082. The purpose of the Notice of Preparation (NOP) is to provide responsible agencies and interested persons with sufficient information in order to enable them to make comments regarding the scope and content of the EIR.

Project Location: The +/-217.04-acre project site consists of nine separate parcels identified by Assessor's Parcel Numbers (APNs) 904-1-7-21; 904-1-2-12; 904-1-7-32; 904-3-1-4; 904-10-2-2, -3, -5, -7, and -8 located in unincorporated Alameda County. The project site is located adjacent to the existing Oaks Business Park, which consists of eight light industrial warehouse buildings, in the northwestern corner of the City of Livermore. The project site is generally located west of Isabel Avenue/State Route (SR) 84, north of Stanley Boulevard, south of West Jack London Boulevard, and east of El Charro Road (see Figures 1 and 2). APNs 904-1-7-32, 904-1-2-12, and 904-1-7-21 are also known as SMP 38; APN 904-3-1-4 is also known as SMP 39; and 904-10-2-2 is also known as SMP 40. The aforementioned SMP numbers are due to the Surface Mining Permit (SMP) numbers applicable to each site. The Surface Mining Permits for each of the sites were approved by Alameda County in 2004 to allow for the extraction of sand and gravel (i.e., aggregate) within the sites; however, aggregate mining has not occurred within any of the sites.

Project Summary: On SMP 38, the proposed project includes a Sphere of Influence (SOI) Amendment to include SMP 38 within the City of Livermore SOI and remove it from City of Pleasanton's SOI. The City of Livermore General Plan land use designation for SMP 38 would remain Limited Agriculture and Open Space/Sand and Gravel and the Alameda County zoning designation would remain Agriculture. Development of SMP 38 is not proposed.

On SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 square feet (sf) total of new building space, and associated internal roadways, parking, landscaping, utilities, and other improvements. On SMP 40, the proposed project would include development of two industrial buildings containing up to approximately 758,808 sf of new building space with related internal roadways, parking, landscaping, utilities, and other improvements.

Several approvals would be required for the development of SMP 39 and SMP 40, including a SOI Amendment for SMP 39, General Plan Amendment, Pre-zoning and Annexation, Zoning Map Amendment/Planned Development, Vesting Tentative Subdivision Maps, Pre-Annexation Agreement, and Development Agreement. A Site Plan Design Review entitlement is required for SMP 39 and SMP 40, which would include a review of the site plan, building, and landscape design; however, the entitlement is only proposed for SMP 40 at this time. A Site Plan Design Review entitlement will be required at a later date for the future development of SMP 39. In addition, the proposed project would include annexation of four additional parcels (APNs 904-10-2-3, -5, -7, and -8) located east of SMP 40. Development is not proposed on these additional parcels as part of the proposed project. Refer to Figure 3 through Figure 6 for the proposed SOI, annexation, and urban growth boundary amendments.

Contact Information: For more information regarding the proposed project, please refer to the following detailed project description or contact Ashley Vera, Associate Planner, at (925) 960-4479 or asvera@livermoreca.gov. A copy of the NOP is available for review at the City of Livermore Community Development Department or on the City of Livermore website:

https://www.livermoreca.gov/departments/community-development/planning/environmental-documents

NOP Comment Period: Written comments should be submitted at the earliest possible date, but not later than 5:00 PM on Monday, February 6, 2023, to Ashley Vera, Associate Planner, City of Livermore Community Development Department, 1052 South Livermore Avenue, Livermore, CA 94550, (925)-960-4450 (main), -4479 (direct), or asvera@livermoreca.gov.

NOP Scoping Meeting: In addition to the opportunity to submit written comments, a NOP scoping meeting will be held to inform interested parties about the proposed project, and to provide agencies and the public with an opportunity to provide comments on the scope and content of the EIR. Further information on the date and time of the scoping meeting is provided below.

EIR Scoping Meeting on the SMP 38/SMP 39/SMP 40 Project
Tuesday, January 17, 2023 at 7:00 pm

Meeting Location:
Planning Commission
Civic Center Meeting Hall, City Council Chambers
1016 S. Livermore Avenue
Livermore, CA 94550

1.0 PROJECT DESCRIPTION

1.1 Location and Setting

SMP 38

SMP 38 represents three parcels (APN 904-1-7-32, 904-1-2-12 and 904-1-7-21) and is approximately +/- 111.7-gross acres. It is located immediately west of SMP 39 and south of West Jack London Boulevard. SMP 38 is owned by Pacific Coast Aggregates LLC and is located within unincorporated Alameda County, within the City of Pleasanton Sphere of Influence (SOI), and the City of Livermore South Livermore Urban Growth Boundary (UGB). Several structures exist in the northwest corner of the site related to a former horse ranch. The Livermore Municipal Airport is located approximately 100 feet north of SMP 38. As such, the site is included within the Airport's Land Use Compatibility Plan (ALUCP) area. SMP 38 is within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The majority of SMP 38 is within ALUCP Safety Zone 6, with portions within Safety Zones 2 and 3.

Other surrounding existing uses include undeveloped land and a paved shared-use path to the north, and the Las Positas Golf Course and retail outlets further north beyond West Jack London Boulevard; SMP 39 to the east; gravel quarries and industrial ponds associated with mining operations to the south; and undeveloped land, Arroyo Mocho, and industrial ponds to the west. The City of Livermore General Plan designates SMP 38 as Limited Agriculture, as well as Open Space/Sand and Gravel. Because SMP 38 is within the City of Pleasanton SOI and is located outside of the City of Livermore limits, the site does not have a City of Livermore zoning designation. SMP 38 is within the East County Area Plan (ECAP) of the Alameda County General Plan, which designates the site as Industrial and Water Management. The site is zoned Agriculture by Alameda County, with an overlay permitting quarry operations.

SMP 39

SMP 39 (APN 904-3-1-4) is a rectangular-shaped, +/- 51.9-acre parcel owned by SMP 39, LLC. It is located within unincorporated Alameda County, the City of Pleasanton SOI, and the City of Livermore South Livermore UGB.

Figure 1
Regional Project Location

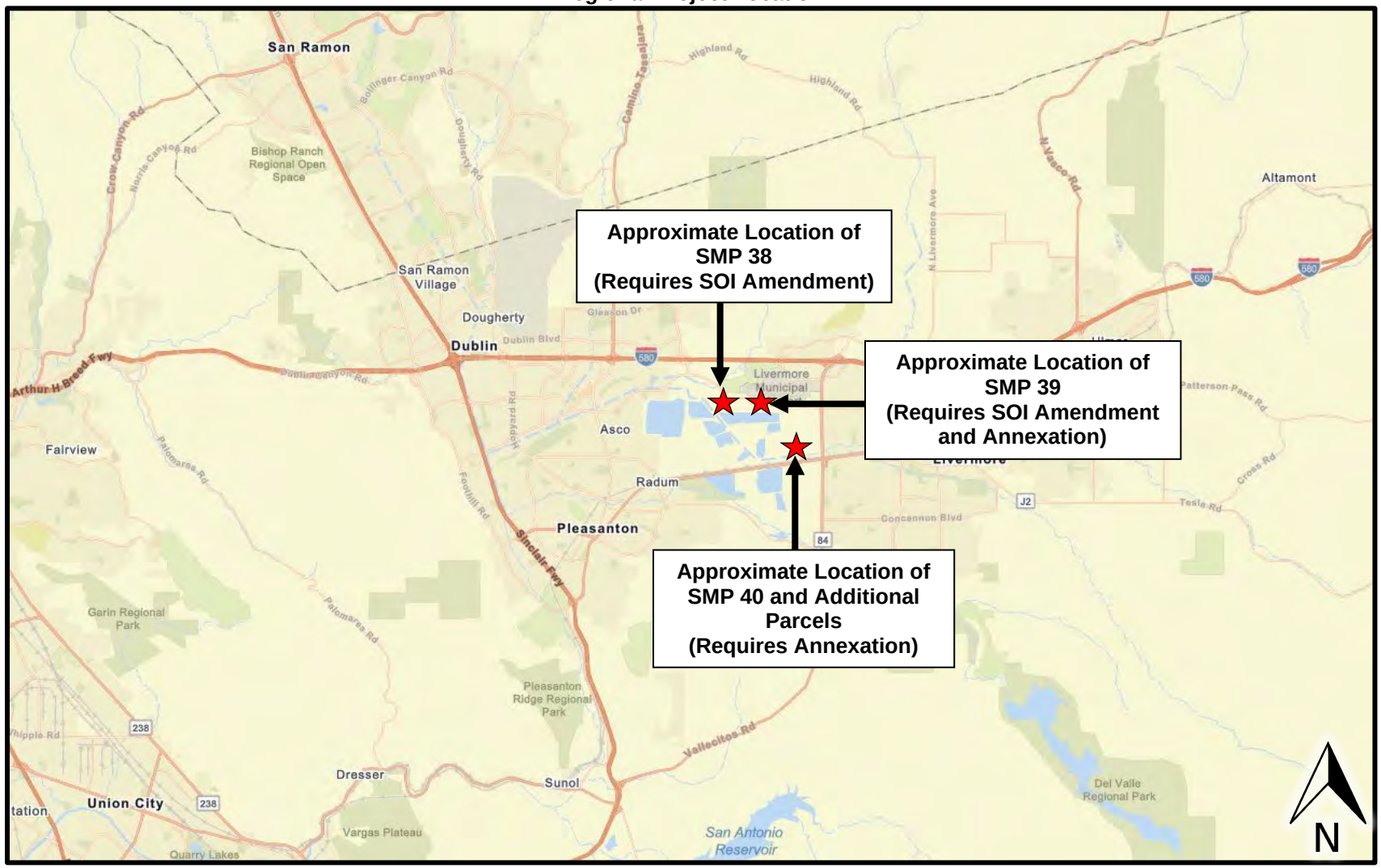
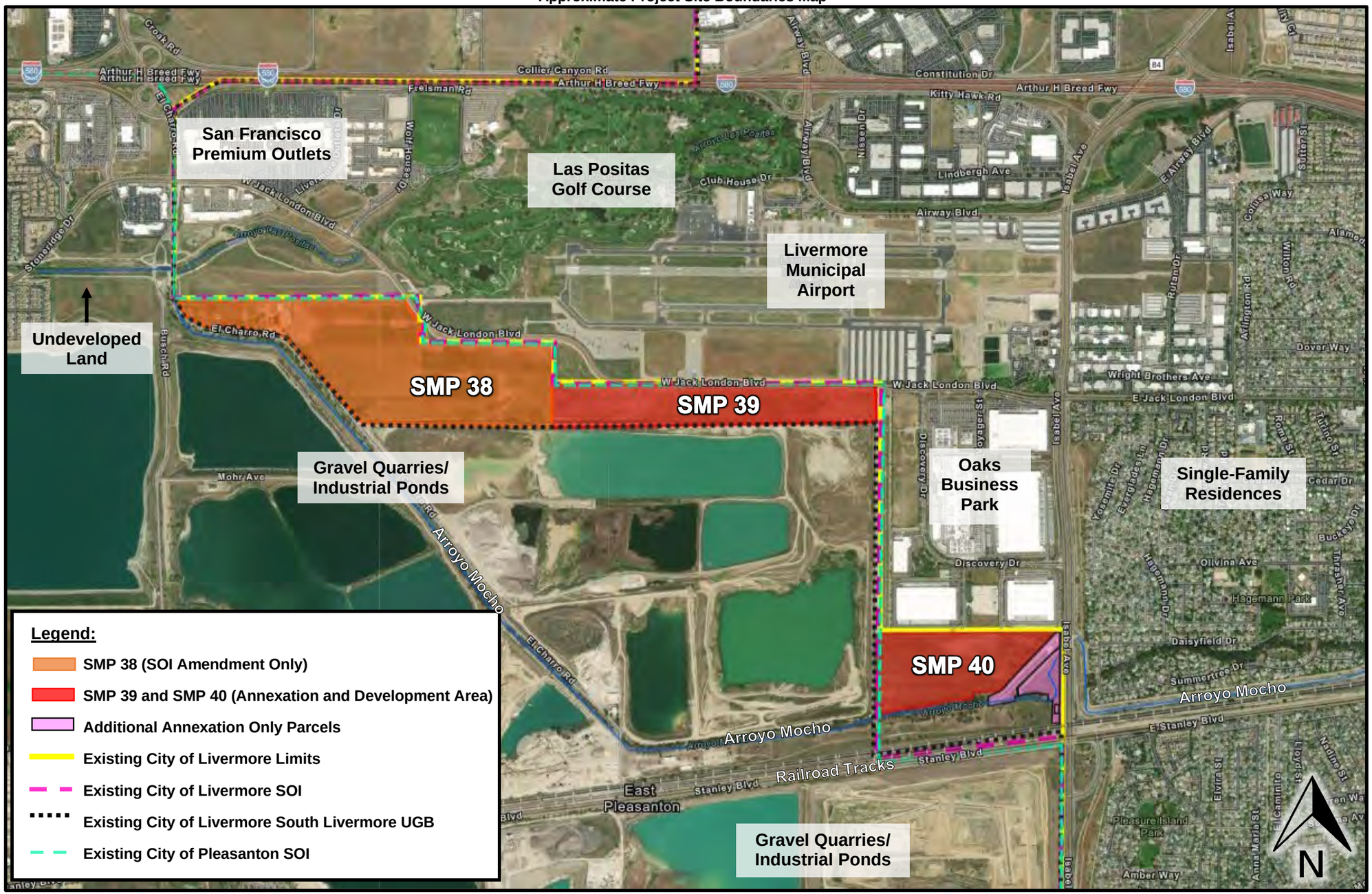


Figure 2
Approximate Project Site Boundaries Map



SMP 39 is currently undeveloped and surrounded by existing uses, including a paved shared-use path and the Livermore Municipal Airport to the north; the Oaks Business Park to the east and the Arroyo Mocho Trail and single-family residences further east, across Isabel Avenue/SR 84; gravel quarries and industrial ponds associated with mining operations to the south; and SMP 38, Arroyo Mocho, and industrial ponds to the west.

The Livermore Municipal Airport is located approximately 100 feet north of SMP 39. As such, the site is included within the ALUCP area. SMP 39 is within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The majority of SMP 39 is within Safety Zone 6, with a small portion of the northwest corner of SMP 39 located within Safety Zone 3. The City of Livermore General Plan designates the site as Open Space/Sand and Gravel. SMP 39 is within the City of Pleasanton SOI and is located outside of the City of Livermore limits, and therefore, does not have a City zoning designation. SMP 39 is also within the ECAP of the Alameda County General Plan, which designates SMP 39 as Industrial. SMP 39 is zoned Agriculture by Alameda County, with an overlay permitting quarry operations.

SMP 40

SMP 40 (APN 904-10-2-2) is an approximately +/- 70-acre parcel that is currently undeveloped and is owned by SMP 40, LLC. SMP 40 is located within unincorporated Alameda County, the City of Livermore SOI, and the City of Livermore South Livermore UGB. While the SMP 40 parcel is +/- 70 acres, only approximately +/- 40.5 acres would require annexation into the City of Livermore, primarily north of the arroyo for development; while the balance of the SMP 40 parcel, primarily south of the arroyo, would remain within unincorporated Alameda County. SMP 40 is included within the ALUCP area, within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The entirety of SMP 40 is within Safety Zone 6. A portion of the project site is within an area identified by the Federal Emergency Management Agency (FEMA) as Zone AE, which is considered a special flood hazard area (SFHA) within the 100-year floodplain.

Surrounding existing uses include the Oaks Business Park to the north; single-family residences to the east, across Isabel Avenue/SR 84; the Arroyo Mocho, open fields, railroad tracks, and gravel quarries associated with mining operations to the south, across Stanley Boulevard; and vacant land, gravel quarries, and industrial ponds associated with mining operations to the west. The City of Livermore General Plan designates SMP 40 as Open Space/Sand and Gravel. While the SMP 40 site is within the City of Livermore SOI, the site is located outside the City limits, and therefore, does not have a City zoning designation. SMP 40 is also within the ECAP of the Alameda County General Plan, which designates SMP 40 as Industrial. The site is zoned Agriculture by Alameda County.

Additional Annexation Only Parcels

Four additional parcels (APNs 904-10-2-3, -5, -7, and -8) located east of SMP 40 are included in the overall project area. The City has chosen to include the parcels in the proposed annexation area for purposes of efficiency and to create logical boundaries. The additional City-initiated annexation only parcels are within unincorporated Alameda County, the City of Livermore SOI, and the City of Livermore South Livermore UGB. APN 904-10-2-3 is an approximately 0.20-acre parcel owned by the Pacific Gas and Electric Company (PG&E) and is developed with existing PG&E infrastructure. APN 904-10-2-5 is an approximately 5.76-acre parcel owned by the Zone 7 Water Agency and serves as a flood control channel. APN 904-10-2-5 is within an area identified by FEMA as Zone AE, which is considered a SFHA within the 100-year floodplain. APN 904-10-2-7 is an approximately 1.57-acre parcel owned by the California Department of Transportation (Caltrans) and is currently undeveloped. APN 904-10-2-8 is an approximately 5.46-acre parcel owned by the City of Livermore and is currently undeveloped with scattered trees throughout the parcel.

Surrounding existing uses include the Oaks Business Park to the north; the Arroyo Mocho Trail and single-family residences to the east, across Isabel Avenue/SR 84; open fields, railroad tracks, Arroyo Mocho, and gravel quarries associated with mining operations to the south, across Stanley Boulevard; and SMP 40 and Arroyo Mocho to the west, with gravel quarries and industrial ponds associated with mining operations further to the west.

Figure 3
Proposed SOI Amendment Area

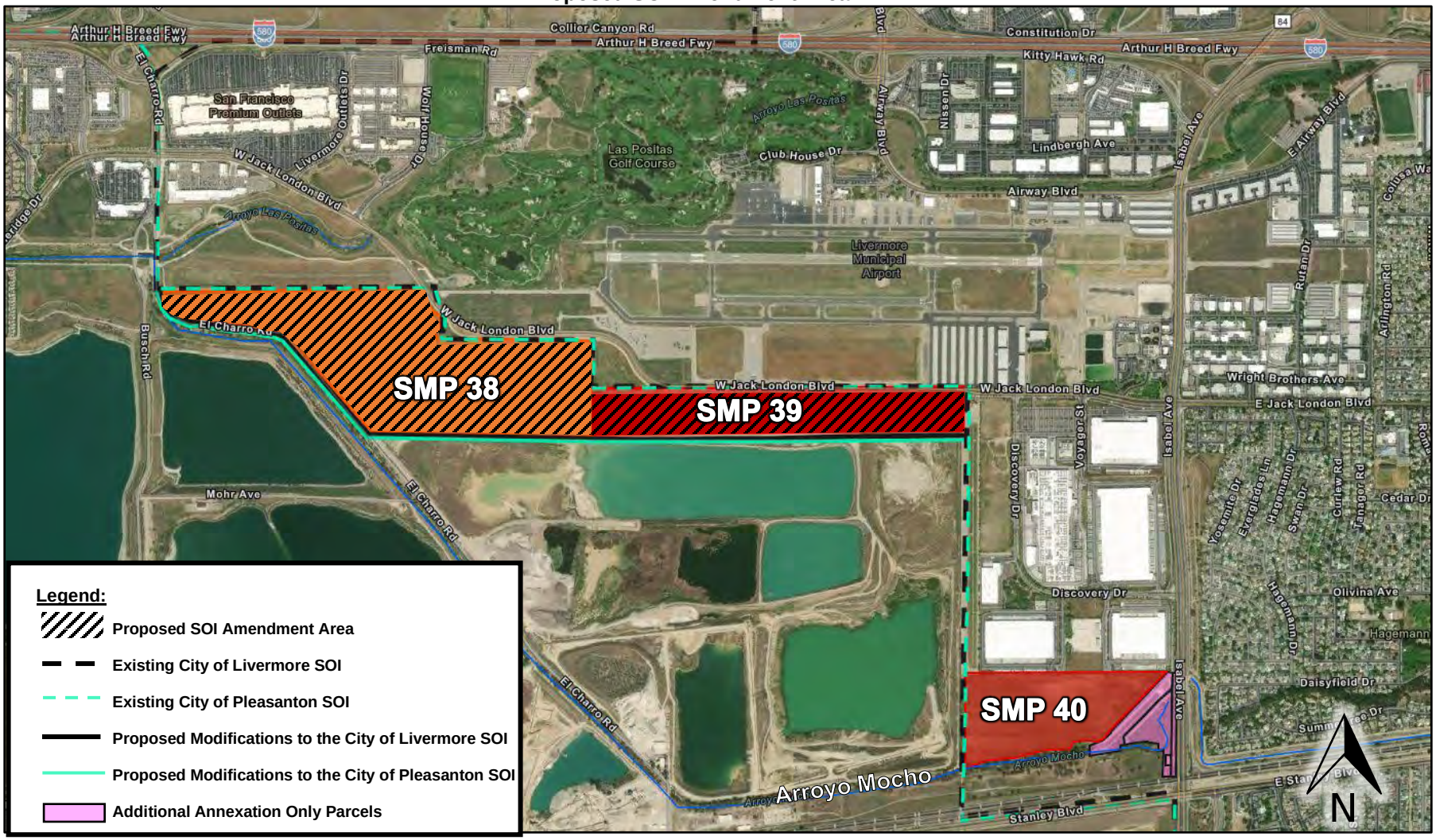


Figure 4
Proposed Annexation Area

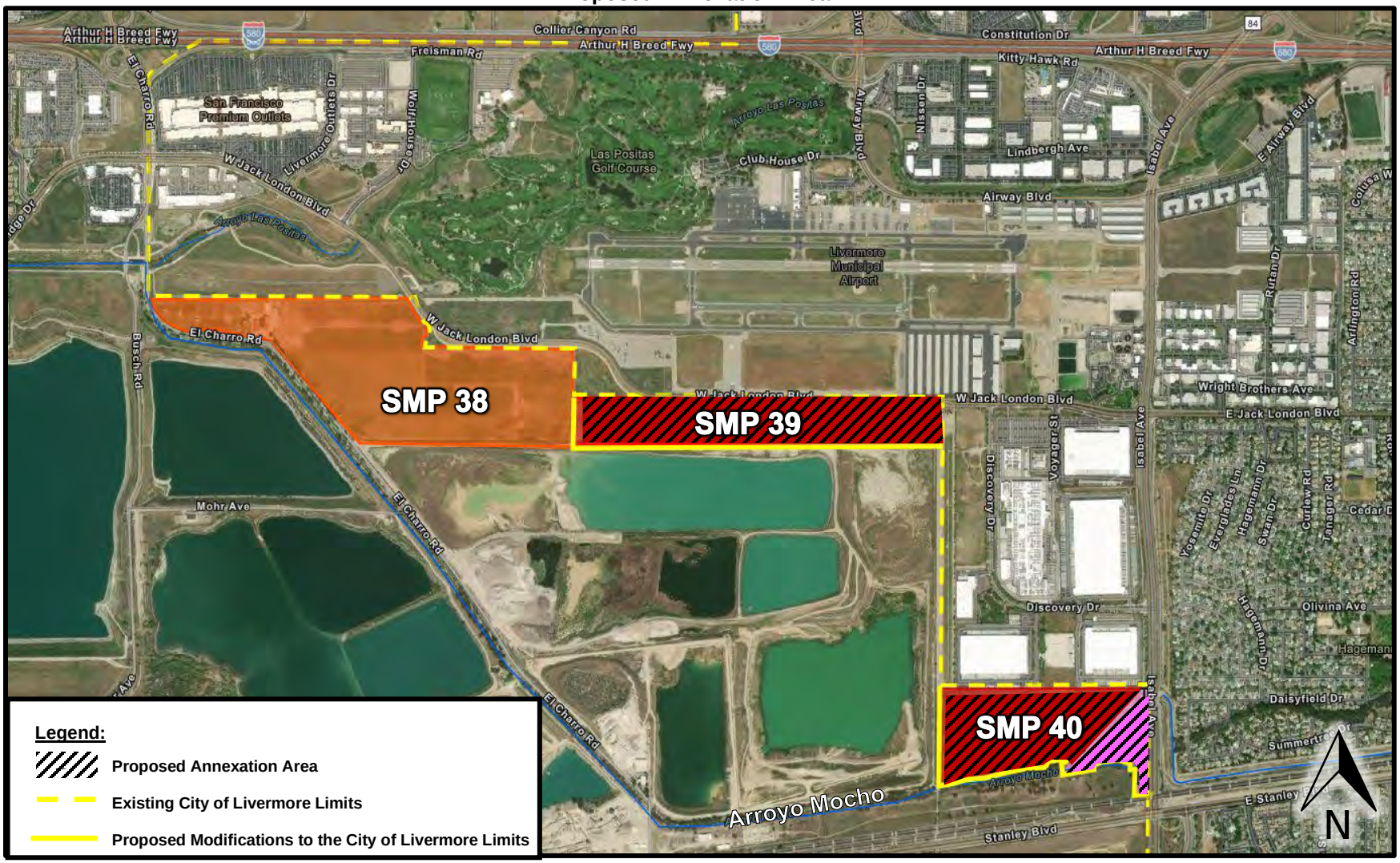


Figure 5
Proposed City of Livermore Boundary Amendments

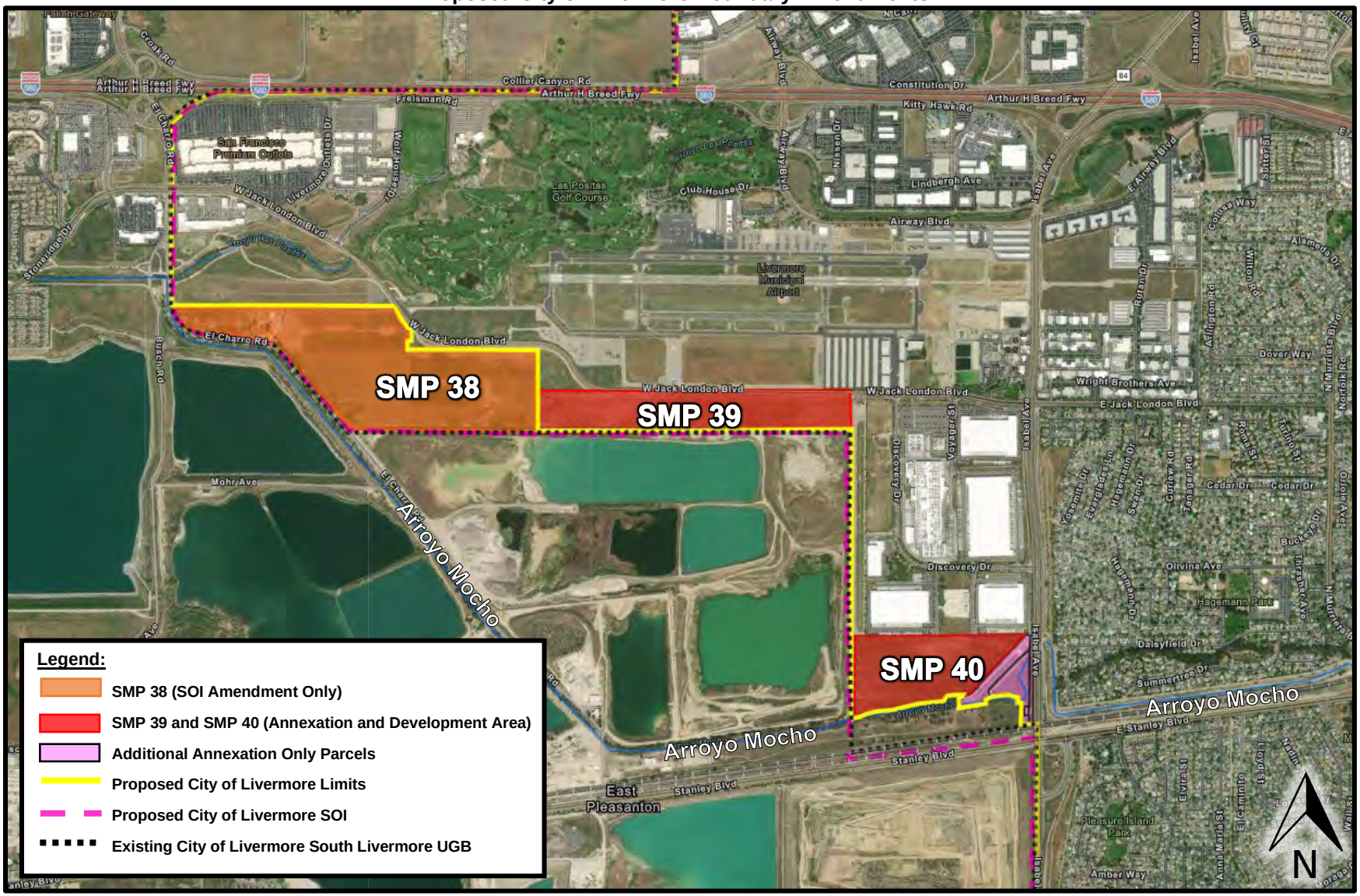
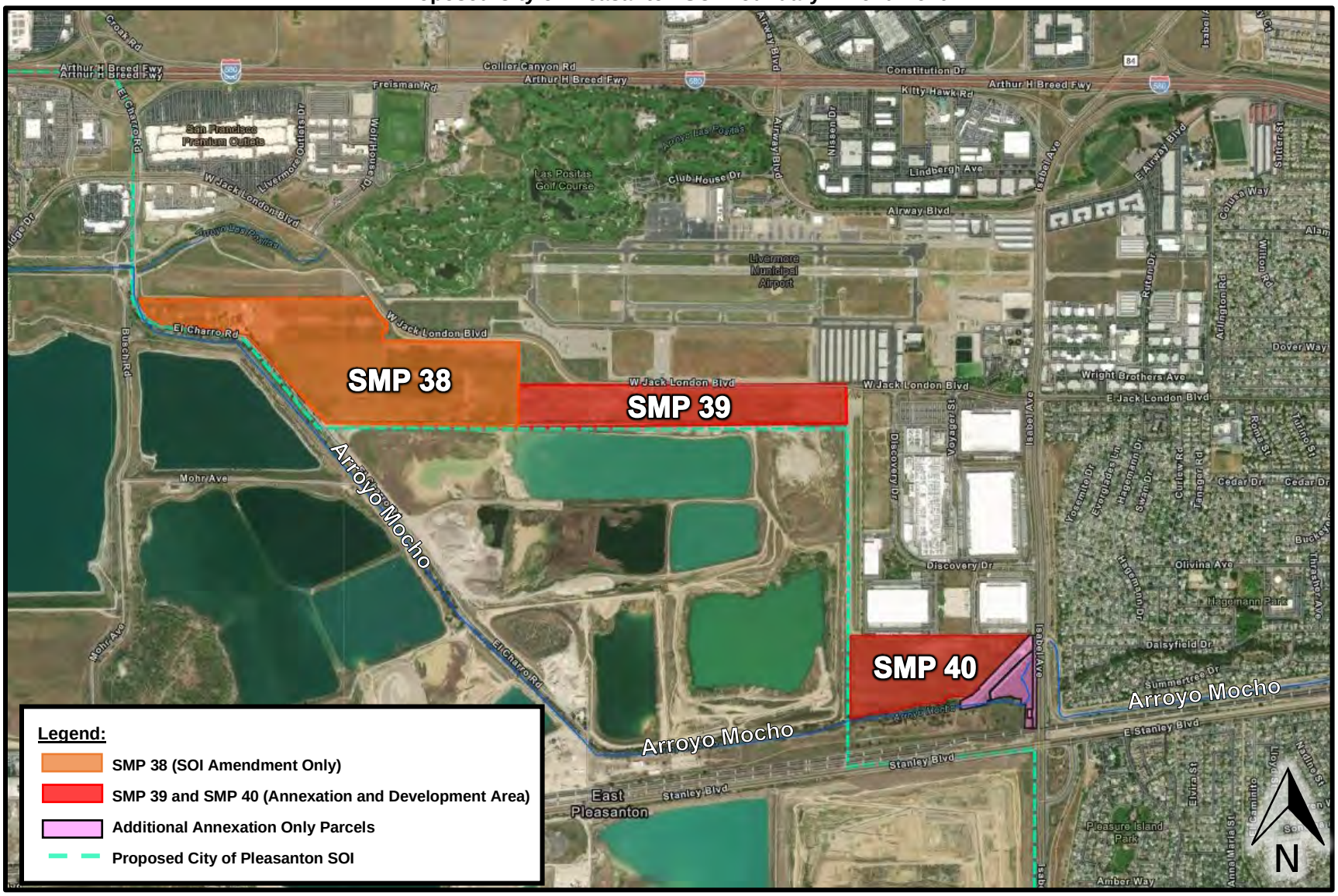


Figure 6
Proposed City of Pleasanton SOI Boundary Amendment



The City of Livermore General Plan designates the additional parcels as Open Space/Sand and Gravel. While the additional parcels are within the City of Livermore SOI, they are outside of the City limits, and, therefore, do not have City zoning designations. The additional parcels are also within the ECAP of the Alameda County General Plan, which designates the parcels as Industrial. The parcels are zoned Agriculture by Alameda County.

1.2 Project Components

As stated in the Project Summary above, proposed development of SMP 39 would include a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf total of new building space, and associated internal roadways, parking, landscaping, utilities, and other improvements. Development of SMP 40 would include two industrial buildings containing up to approximately 758,808 sf of new building space with related internal roadways, parking, landscaping, utilities, and other improvements.

Proposed Access Improvements

The proposed project would include frontage improvements to and right-of-way dedication for the ultimate buildout of West Jack London Boulevard. Ultimate buildout of the roadway is anticipated to consist of four through lanes, including a 12-foot through lane and a 14-foot through lane on each side, a 16-foot landscape median buffer in the center of the roadway, as well as a six-foot bike line on each side of the roadway, separated from the through lanes by a two-foot buffer. As part of the proposed frontage improvements, the project would include an at-grade, paved shared-use path within a 38.5-foot trail easement along the project frontage, consistent with the City's Active Transportation Plan (ATP) (see Figure 7), which would provide connection to the existing path along the western boundary of the Oaks Business Park and eventually to the Arroyo Mocho Trail. The proposed path would be similar to the existing path along the Oaks Business Park site.

The site plan for SMP 40 would include a paved at-grade, on-site trail along the boundaries of the SMP 40 site, consistent with the City's ATP (see Figure 8). Specifically, the on-site trail would extend from the northeastern corner of the site, along the project site's eastern, southern, and western boundaries, before connecting to an off-site existing paved shared-use path at the northwestern corner of site, which extends along the west side of the Oaks Business Park to the north and connects to West Jack London Boulevard. In addition, the proposed project would include a new off-site trail connection to the existing Arroyo Mocho Trail, located on the east side of Isabel Avenue/SR 84. For the purposes of this analysis, three alternatives for the proposed off-site Isabel Avenue/SR 84 crossing to the existing Arroyo Mocho Trail are being considered and evaluated in the EIR, including the following, as shown in Figure 8:

- Trail Connection Option 1 – At-Grade Crossing at Discovery Drive;
- Trail Connection Option 2 – Undercrossing at Isabel Bridge; and
- Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84.

Each of the three alternatives are described in further detail below.

Trail Connection Option 1 – At Grade Crossing at Discovery Drive

Off-site trail connection Option 1 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site, off-site and north along the western side of Isabel Avenue/SR 84 to Discovery Drive, where a new pedestrian crossing with a traffic signal would be added across Isabel Avenue/SR 84 to connect to the existing Arroyo Mocho Trail on the eastern side of Isabel Avenue/SR 84. Off-site trail connection Option 1 would require either the relocation an existing 18-inch recycled water line or the use of retaining walls on either side of the trail near the connection point to the existing Arroyo Mocho Trail on the east side of the crossing.

In addition to City approval, off-site trail connection Option 1 would require coordination with, easements from, and/or approvals by Zone 7, Caltrans, and property owner(s) along the proposed trail alignment north of SMP 40.

Figure 7
Existing and Proposed Trails

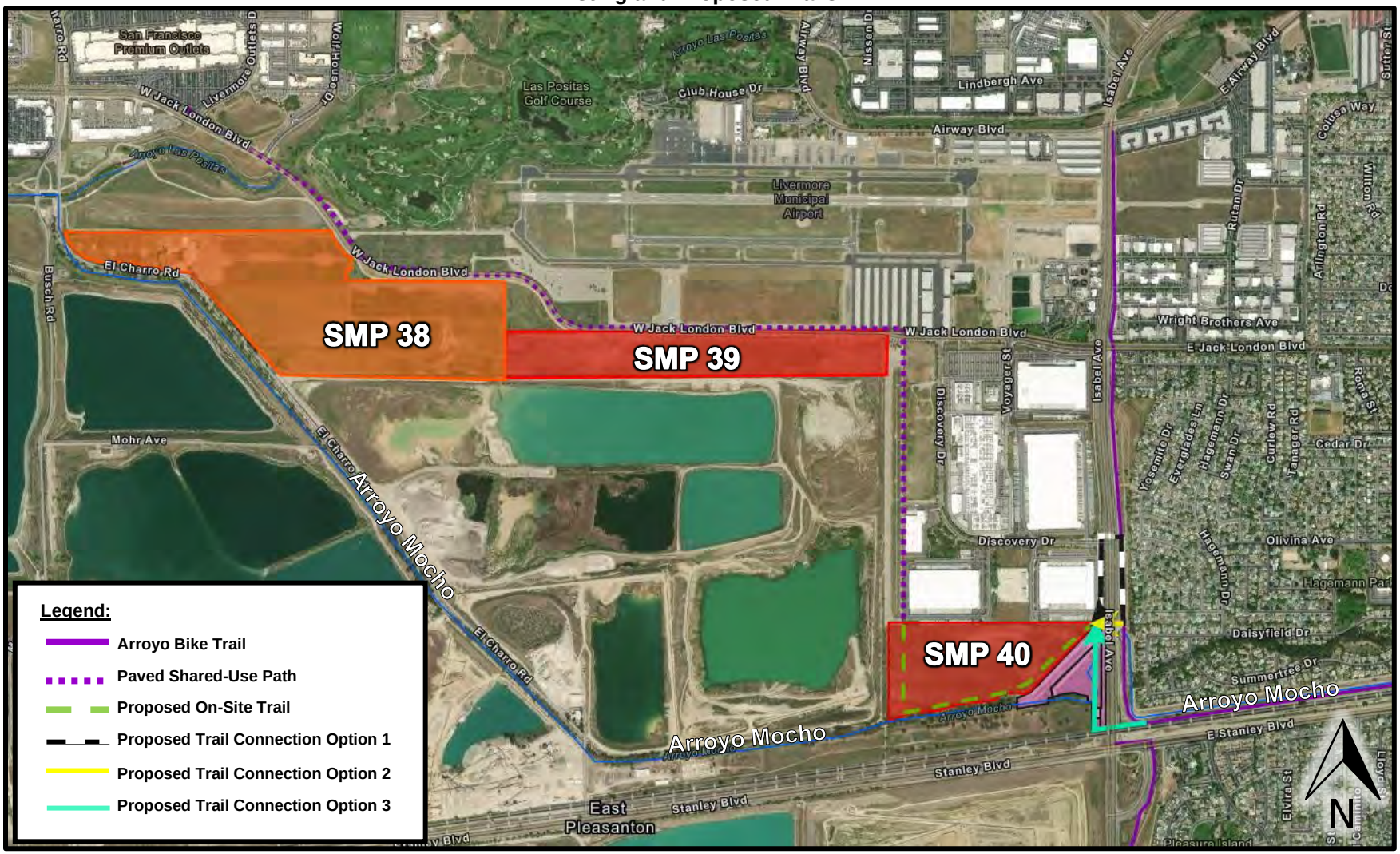
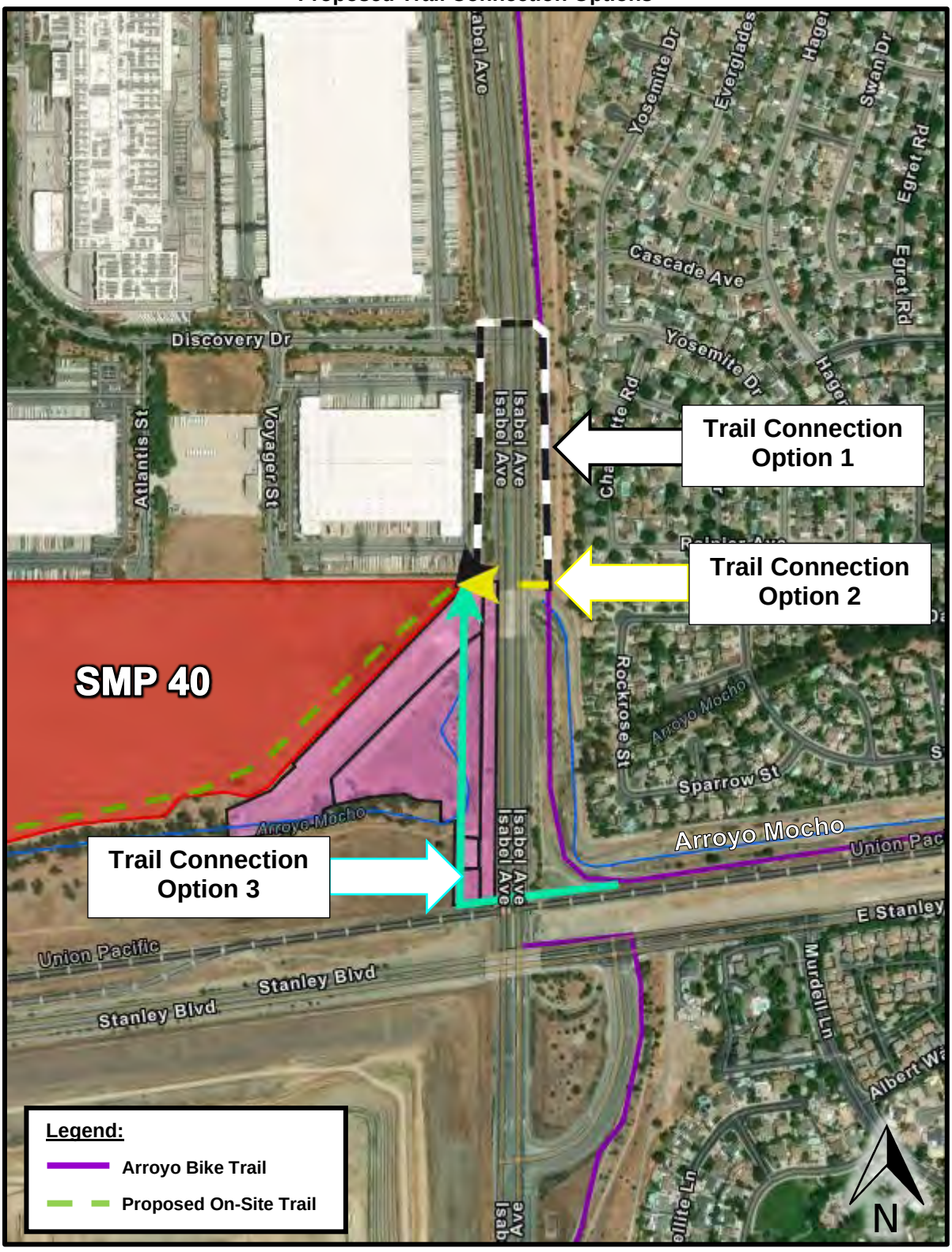


Figure 8
Proposed Trail Connection Options



Trail Connection Option 2 – Undercrossing at Isabel Bridge

Off-site trail connection Option 2 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site, off-site to a grade-separated undercrossing of Isabel Avenue/SR 84 at the existing Isabel Bridge, where the trail would connect to the existing Arroyo Mocho Trail on the eastern side of Isabel Avenue/SR 84.

The trail undercrossing is anticipated to be constructed above the ordinary high- water mark (OHWM) of the Arroyo Mocho, be approximately 14 feet wide, and provide a minimum of seven feet of clearance under the bridge. An existing PG&E 20-inch gas main located west of the bridge may require relocation under off-site trail connection Option 2. It should be noted that the City's ATP identifies an undercrossing as the preferred crossing of Isabel Avenue/SR 84.

Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84

Off-site trail connection Option 3 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site within a Zone 7 easement, off-site and south through the Additional Annexation Only Parcels to just north of the existing railroad tracks and associated crossing (north of Stanley Boulevard), where a new above-grade crossing over Isabel Avenue/SR 84 is proposed to connect to the existing Arroyo Mocho Trail at the northeast corner of Stanley Boulevard and Isabel Avenue/SR 84. The trail overcrossing is anticipated to be an approximately 170-foot bike/pedestrian metal fabricated clear span bridge that would run parallel to the existing bridge for the railroad tracks.

In addition to City approval, off-site trail connection Option 2 would require coordination with, easements from, and/or approvals by Zone 7, Caltrans, PG&E, the State Water Resources Control Board (SWRCB), and the California Department of Fish and Wildlife (CDFW), as well as potentially the U.S. Army Corps of Engineers (USACE) if work below the OHWM cannot be avoided.

Proposed Operations

The exact tenants or operations for the proposed project sites are unknown at this time; however, the uses are anticipated to be industrial uses consistent with the City's Low Intensity Industrial General Plan designation, including research and development, professional and administrative offices, experimental and testing laboratories, and manufacturing of electronic and other high-end complex products. Exclusive warehouse/ distribution uses would be a permitted use for SMP 40 only.

1.3 Requested Entitlements

The proposed project would require the following approvals from the City of Livermore:

SMP 38

- Resolution authorizing submittal of a SOI Amendment application to the Alameda County Local Agency Formation Commission (LAFCo).

SMP 39

- Resolution authorizing submittal of an annexation and SOI Amendment application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation for SMP 39 from Open Space/Sand and Gravel to Low Intensity Industrial (LII);
- Pre-zone the site as PDI-22-001;
- Zoning Map Amendment;
- Vesting Tentative Subdivision Map;

- Development Agreement; and
- Pre-Annexation Agreement.

SMP 40

- Resolution authorizing submittal of an annexation application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation for SMP 40 from Open Space/Sand and Gravel to Low Intensity Industrial (LII);
- Pre-zone the site as PDI-22-001;
- Zoning Map Amendment;
- Vesting Tentative Subdivision Map;
- Site Plan and Design Review;
- Development Agreement; and
- Pre-Annexation Agreement.

Additional Annexation Only Parcels (APNs 904-10-2-3, -5, -7, and -8)

- Resolution authorizing submittal of an annexation application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation from Open Space/Sand and Gravel to Parks, Trailways and Recreation Areas (OSP); and
- Pre-zone the sites to Open Space Flood Plain (OS-F).

In addition to approvals from the City of Livermore, the proposed project would require approvals, permits, resolutions/letters of support, or other coordination efforts from responsible and trustee agencies, as well as other public agencies, including, but not limited to, the following:

- Alameda County Local Agency Formation Commission (LAFCo);
- Alameda County Airport Land Use Commission (ALUC);
- City of Pleasanton;
- Pacific Gas and Electricity (PG&E);
- Federal Aviation Administration (FAA);
- Federal Emergency Management Agency (FEMA);
- Bay Area Air Quality Management District (BAAQMD);
- California State Water Resources Control Board (SWRCB);
- San Francisco Regional Water Quality Control Board (RWQCB);
- Zone 7 Water Agency;
- California Department of Transportation (Caltrans);
- California Department of Fish and Wildlife (CDFW); and
- U.S. Army Corps of Engineers (USACE) (tentative).

2.0 PROBABLE ENVIRONMENTAL EFFECTS AND SCOPE OF THE EIR

Based upon the Initial Study analysis conducted for the proposed project (see the Attachment to this NOP) and consistent with Appendix G of the CEQA Guidelines, the City anticipates that the EIR will contain the following chapters:

- Agricultural Resources
- Air Quality, Greenhouse Gas Emissions, and Energy
- Biological Resources
- Cultural and Tribal Cultural Resources
- Hydrology and Water Quality
- Noise
- Public Services/Utilities and Service Systems
- Transportation
- Statutorily Required Sections
- Alternatives Analysis

Each technical chapter of the EIR will include identification of the thresholds of significance, identification of project-level and cumulative impacts, and the development of mitigation measures and monitoring strategies, as required. The proposed EIR will incorporate by reference the City of Livermore General Plan, and the City of Livermore General Plan EIR. In addition to these City documents, project-specific technical studies are being prepared by technical experts. The EIR will also include analysis necessary for Alameda County LAFCo to use the EIR for their actions as a Responsible Agency.

The following paragraphs summarize the anticipated analyses that will be included in the EIR.

Agricultural Resources. The Agriculture Resources chapter of the EIR will provide information regarding the existing setting relative to agricultural resources on the project site. Information provided within the chapter will include maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency and identification of any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance on-site. The setting section will also identify the types of on-site soils. Following the setting discussion, the chapter will identify thresholds of significance applicable to the proposed project. The impacts will be measured against the thresholds of significance and appropriate mitigation measures and monitoring strategies will be identified that are consistent with the policies of the City of Livermore. In addition, the chapter will address the project's consistency with LAFCo agricultural policies and standards.

Air Quality, Greenhouse Gas Emissions, and Energy. The air quality and greenhouse gas (GHG) emissions analysis for the proposed project will be performed using the California Emissions Estimator Model (CalEEMod) software program and following BAAQMD CEQA Guidelines.

The air quality impact analysis will include a quantitative assessment of short-term (i.e., construction) and long-term (i.e., operational) increases of criteria air pollutant emissions of primary concern (i.e., ROG, NO_X, and PM_{10}, and $PM_{2.5}$). The proposed project's cumulative contribution to regional air quality will be discussed, based in part on the modeling conducted at the project level. The analysis will also address any potential impacts that may occur associated with toxic air contaminant (TAC) emissions.

For warehouse projects, such as the proposed project, TACs are often a concern due to the amount of heavy-duty diesel trucks accessing the project site. As such, a Health Risk Assessment (HRA) will be conducted to calculate the cancer risk associated with on-site truck diesel particulate matter (DPM) emissions to determine if the risk is below the applicable BAAQMD threshold. The analysis for the HRA would include both acute and chronic health hazards, carcinogenic and non-carcinogenic, due to exposure of TACs. The estimation of health risks impacts will be conducted using the guidelines identified in the California Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments, as well as in accordance with BAAQMD guidance.

The GHG emissions analysis will include a quantitative estimate of carbon dioxide equivalent emissions from the proposed project, including indirect emissions (e.g., electricity, propane) and construction emissions. The chapter will include an analysis of the proposed project's consistency with the City of Livermore Climate Action Plan (CAP).

The significance of air quality and GHG impacts will be determined in comparison to BAAQMD significance thresholds. BAAQMD-recommended mitigation measures and City of Livermore CAP strategies will be incorporated, if needed, to reduce any significant air quality impacts, and anticipated reductions in emissions associated with proposed mitigation measures will be quantified.

The Energy portion of the chapter will evaluate whether the proposed project could result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. The discussion will also evaluate whether the proposed project would conflict with or obstruct a State or local plan for renewable energy. The chapter will review the City's CAP to identify energy-related measures that may be applicable to the proposed project.

Biological Resources. The Biological Resources chapter of the EIR will summarize potential effects to plant communities, wildlife, and wetlands, including adverse effects on rare, endangered, candidate, sensitive,

and special-status species from the development of the proposed project. The proposed project's environmental effects on the existing wetlands and the proximity of the project site to Arroyo Mocho will be assessed. The analysis within the chapter will primarily rely on information included in a project-specific biological resources report prepared for the proposed project.

Cultural and Tribal Cultural Resources. The Cultural and Tribal Cultural Resources chapter will summarize the project site's existing setting and briefly describe the potential effects to any on-site historical, and/or archaeological resources due to implementation of the proposed project. Analysis in the chapter will be based on a cultural resources report prepared for the proposed project, which will include the results of a field survey and records search.

The Tribal Cultural Resources analysis will describe the potential effects to tribal cultural resources from buildout of the proposed project. The City will conduct Native American tribal consultation pursuant to Assembly Bill (AB) 52 and Senate Bill (SB) 18, the latter of which is required for the proposed project due to the proposed General Plan Amendment. Any input from tribes will be incorporated into the Tribal Cultural Resources chapter. Feasible and appropriate mitigation measures to avoid or reduce adverse impacts will be identified, as needed.

Hydrology and Water Quality. The Hydrology and Water Quality chapter will summarize setting information and identify potential impacts on storm water drainage, flooding, groundwater, and water quality. Pre- and post-project runoff, as well as changes in the drainage pattern of the project area will be evaluated within the chapter. The chapter will also discuss the portion of the project site located within a Special Flood Hazard Area (Zone A). The analysis within the chapter will primarily rely on information included in a drainage report prepared for the proposed project, which will include a floodplain analysis.

Noise. The Noise chapter of the EIR will be based on a project-specific noise study. The chapter will address potential noise impacts resulting from project construction and operation, including traffic noise levels on the local roadway network and stationary noise sources on-site, such as truck and loading dock noise. Noise-sensitive land uses or activities in the project vicinity will be identified and ambient noise and vibration level measurements on, and in the vicinity of, the project site will be conducted to quantify existing background noise and vibration levels for comparison to the predicted project-generated levels. Noise exposure levels will then be compared to applicable significance criteria of the City of Livermore and CEQA. Feasible and appropriate mitigation measures to avoid or reduce adverse impacts will be identified, as needed.

Public Services/Utilities and Service Systems. The Public Services portion of the EIR chapter will evaluate whether the proposed project could increase demands upon local services, including fire and police. In accordance with Appendix G, the focus of the analysis will be on whether the project's demand would require physical alteration of, or need for new governmental facilities, in order to maintain acceptable service ratios, response times, or other performance objectives, the construction of which could cause significant environmental impacts. Sufficient detail will be included within the chapter to provide adequate information for Alameda County LAFCo to use for their actions as a Responsible Agency.

The Utilities and Service Systems portion of the EIR chapter will address potential new demand for water distribution and supply, wastewater conveyance and treatment, solid waste generation, and electric and natural gas utilities. The analysis will rely on a project-specific water supply assessment, which will determine if adequate water supply exists to serve the proposed project and other existing and planned development under normal, dry, and multiple dry years. The chapter will also be based on existing information from direct consultation with appropriate service providers.

Transportation. The Transportation chapter of the EIR will be based on a project-specific traffic study. Impact determination for CEQA purposes will be based on Vehicle Miles Traveled (VMT), consistent with CEQA Guidelines Section 15064.3, which became effective statewide on July 1, 2020. The VMT Analysis will be prepared consistent with Alameda County's current guidance regarding analysis of VMT. The proposed project's impacts to alternative modes such as pedestrian, bicycle, and transit facilities will be assessed based on the applicable significance criteria. The EIR chapter will also include an analysis of the

proposed project's potential impacts related to conflicting with applicable programs, policies, and ordinances addressing the circulation system, vehicle safety hazards, and emergency access. Feasible and appropriate mitigation measures to avoid or reduce adverse impacts will be identified, as needed.

Statutorily Required Sections. Pursuant to CEQA Guidelines Section 21100(b)(5), the Statutorily Required Sections chapter of the EIR will address the potential for growth-inducing impacts of the proposed project, focusing on whether removal of any impediments to growth would occur with the proposed project. A summary of the significant and unavoidable impacts identified within the EIR will be included in this chapter, if applicable, as well as a discussion of significant irreversible impacts. The chapter will generally describe the cumulative setting for the proposed project; however, a detailed description of the subject-specific cumulative setting, as well as analysis of the cumulative impacts, will be included in each technical chapter of the EIR.

Alternatives Analysis. In accordance with Section 15126.6(a) of the CEQA Guidelines, the EIR will include an analysis of a range of alternatives, including a No Project Alternative. Consideration will be given to potential off-site locations consistent with CEQA Guidelines, Section 15126.6(f)(2), and such locations will be determined in consultation with City staff. If it is determined that an off-site alternative is not feasible, the EIR will include a discussion describing why such a conclusion was reached. The project alternatives will be selected when more information related to project impacts is available in order to be designed to reduce significant project impacts. The chapter will also include a section of alternatives considered but dismissed, if necessary. The Alternatives Analysis chapter will describe the alternatives and identify the environmentally superior alternative. The alternatives will be analyzed at a level of detail less than that of the proposed project; however, the analyses will include sufficient detail to allow a meaningful comparison of the impacts. Such detail may include conceptual site plans for each alternative, basic quantitative traffic information (e.g., trip generation), as well as a table that will compare the features and the impacts of each alternative.

Attachment

Initial Study

City of Livermore
Community Development Department

SMP 38/SMP 39/SMP 40 Project

Initial Study

January 2023

Prepared by

RANEY PLANNING & MANAGEMENT, INC. 20 years
1501 Sports Drive, Suite A, Sacramento, CA 95834

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Appendix A: Geotechnical Investigation
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INITIAL STUDY

January 2023

A. BACKGROUND

1.	Project Title:	SMP 38/SMP 39/SMP 40 Project
2.	Lead Agency Name and Address:	City of Livermore Community Development Department 1052 S. Livermore Avenue Livermore, CA 94550
3.	Contact Person and Phone Number:	Ashley Vera Associate Planner (925) 960-4479
4.	Project Location:	West of Isabel Avenue/State Route (SR) 84, North of Stanley Boulevard, and South of W. Jack London Boulevard Livermore, CA 94550 APNs: See Table 1
5.	Project Sponsor's Name and Address:	Timur Tecimer Overton Moore Properties 19700 S Vermont, Suite 101 Torrance, CA 90502
6.	Existing City General Plan Designations:	See Table 1
7.	Proposed City General Plan Designations:	See Table 1
8.	Existing Alameda County General Plan Designations:	See Table 1
9.	Proposed Alameda County General Plan Designations:	See Table 1
10.	Existing City Zoning Designations:	None
11.	Proposed City Zoning Designations:	See Table 1
12.	Existing Alameda County Zoning Designations:	See Table 1
13.	Proposed Alameda County Zoning Designations:	See Table 1
14.	Other Public Agencies Potentially Requiring Approvals:	Alameda County LAFCo; Alameda County Airport Land Use Commission (ALUC);

City of Pleasanton;
Pacific Gas and Electricity (PG&E);
Federal Aviation Administration (FAA);
Federal Emergency Management Agency (FEMA);
Bay Area Air Quality Management District (BAAQMD);
California State Water Resources Control Board (SWRCB);
San Francisco Regional Water Quality Control Board (RWQCB);
Zone 7 Water Agency;
Caltrans;
California Department of Fish and Wildlife (CDFW); and
U.S. Army Corps of Engineers (USACE).

Table 1
Project Site Summary

Parcel Name	APN(s)	Existing General Plan Land Use Designation	Existing Zoning Designation	Proposed General Plan Land Use Designation	Proposed Zoning Designation
SMP 38	904-1-7-32, 904-1-2-12 and 904-1-7-21	City: Open Space Sand and Gravel/Limited Agriculture County: Industrial/Water Management	Agriculture (A)	City: Open Space Sand and Gravel/Limited Agriculture County: Industrial/Water Management	Agriculture (A)
SMP 39	904-3-1-4	City: Open Space Sand and Gravel County: Industrial	Agriculture (A)	City: Low Intensity Industrial	Planned Development-Industrial (PDI-22-001)
SMP 40	904-10-2-2	City: Open Space Sand and Gravel County: Industrial	Agriculture (A)	City: Low Intensity Industrial	Planned Development-Industrial (PDI-22-001)
Additional Annexation Only Parcels	904-10-2-3, -5, -7, and -8	City: Open Space Sand and Gravel County: Industrial	Agriculture (A)	City: Parks, Trailways and Recreation Areas	Open Space Flood Plain (OS-F)

15. Surrounding Land Uses and Setting:

The +/-217.04-acre project site consists of nine separate parcels identified by Assessor's Parcel Numbers (APNs) 904-1-7-21; 904-1-2-12; 904-1-7-32; 904-3-1-4; 904-10-2-2, -3, -

5, -7, and -8 located in unincorporated Alameda County. The project site is located adjacent to the existing Oaks Business Park, which consists of eight light industrial warehouse buildings, in the northwestern corner of the City of Livermore. The project site is generally located west of Isabel Avenue/State Route (SR) 84, north of Stanley Boulevard, south of West Jack London Boulevard, and east of El Charro Road. A summary of the land uses surrounding each parcel of the project site is included in Table 2.

APNs 904-1-7-32, 904-1-2-12, and 904-1-7-21 are also known as SMP 38; APN 904-3-1-4 is also known as SMP 39; and 904-10-2-2 is also known as SMP 40. The aforementioned SMP numbers are due to the Surface Mining Permit (SMP) numbers applicable to each site. The Surface Mining Permits for each of the sites were approved in 2004 to allow for the extraction of sand and gravel (i.e., aggregate) within the sites; however, aggregate mining has not occurred within any of the sites.

Table 2
Surrounding Land Use Summary

Parcel Name	Surrounding Land Uses
SMP 38	North: Undeveloped land, a paved shared-use path, the Las Positas Golf Course and retail outlets
	South: Industrial ponds associated with mining operations
	East: SMP 39
	West: Undeveloped land, Arroyo Mocho, and industrial ponds
SMP 39	North: A paved shared-use path and the Livermore Municipal Airport
	South: Gravel quarries and industrial ponds associated with mining
	East: Oaks Business Park; Arroyo Mocho Trail and single-family residences
	West: SMP 38, Arroyo Mocho, and industrial ponds
SMP 40	North: Oaks Business Park
	South: Arroyo Mocho, open fields, railroad tracks, and gravel quarries associated with mining operations
	East: Single-family residences
	West: Vacant land, gravel quarries, and industrial ponds associated with mining
Additional Annexation Only Parcels	North: Oaks Business Park
	South: Open fields, railroad tracks, Arroyo Mocho, and gravel quarries associated with mining operations
	East: Arroyo Mocho Trail and single-family residences
	West: SMP 40, Arroyo Mocho, gravel quarries and industrial ponds associated with mining operations

16. Project Description Summary:

On SMP 38, the proposed project includes a Sphere of Influence (SOI) Amendment to include SMP 38 within the City of Livermore SOI and remove it from City of Pleasanton's SOI. The City of Livermore General Plan land use designation for SMP 38 would remain Limited Agriculture and Open Space/Sand and Gravel and the Alameda County zoning designation would remain Agriculture. Development of SMP 38 is not proposed.

For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 square feet (sf) of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings containing up

to 758,808 sf of new building space with related internal roadways and other improvements. A number of approvals would be required for development of SMP 39 and SMP 40, including a SOI Amendment for SMP 39, General Plan Amendment, Pre-zoning and Annexation, Zoning Map Amendment/Planned Development, Vesting Tentative Subdivision Maps, a Pre-Annexation Agreement, and Development Agreement. A Site Plan Design Review entitlement is required for SMP 39 and SMP 40, which would include a review of the site plan, building, and landscape design; however, the entitlement is only proposed for SMP 40 at this time. A Site Plan Design Review entitlement will be required at a later date for the future development of SMP 39. In addition, the proposed project would include annexation of four additional parcels (APNs 904-10-2-3, -5, -7, and -8) located east of SMP 40. Development is not proposed on the additional parcels as part of the proposed project.

17. Status of Native American Consultation Pursuant to Public Resources Code Section 21080.3.1:

    In compliance with Assembly Bill (AB) 52 (Public Resources Code [PRC] Section 21080.3.1), and Senate Bill (SB) 18, project notification letters were distributed to a list of tribes that were identified by the Native American Heritage Commission (NAHC) as being culturally or traditionally affiliated with the project area on January 3, 2023.

B. SOURCES

The following documents are referenced information sources used for the purpose of this Initial Study:

1. Alameda County Community Development Agency. *Livermore Executive Airport Land Use Compatibility Plan*. August 2012.
2. Alameda County. *Application for Rhodes & Jamieson Aggregate Mines, Surface Mining Permits SMP-38, SMP-39, and SMP-40 Draft Environmental Impact Report (SCH #2003082034).* November 2004.
3. Ardent Environmental Group. *Phase I Environmental Site Assessment: Jack London Boulevard Property – SMP 39 Alameda County, California.* October 20, 2021.
4. Ardent Environmental Group. *Phase I Environmental Site Assessment: Oaks Business Park Northwest of Stanley Boulevard and Isabel Avenue Alameda County, California.* October 20, 2021.
5. CalEPA. *Cortese List Data Resources*. Available at: https://calepa.ca.gov/sitecleanup/corteselist/. Accessed April 2022.
6. California Department of Conservation, Division of Mines and Geology. *Update of Mineral Land Classification: Aggregate Materials in the South San Francisco Bay Production-Consumption Region. 1996.*
7. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/dlrp/ciff/. Accessed April 2022.
8. California Department of Forestry and Fire Protection. *Alameda County, Very High Fire Hazard Severity Zones in LRA*. November 7, 2007.
9. California Department of Transportation. *California State Scenic Highway System Map.* Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed April 2022.
10. California Geological Survey. *Earthquake Zones of Required Investigation.* Available at: https://maps.conservation.ca.gov/cgs/eqzapp/app/. Accessed April 2022.

11. City of Livermore Water Resources Division. *2020 Urban Water Management Plan*. June 28, 2021.
12. City of Livermore. *Design Standards and Guidelines* Adopted June 28, 2004.
13. City of Livermore. *Emergency Operations Plan*. January 2018.
14. City of Livermore. *General Plan*. Amended December 2014.
15. City of Livermore. *Livermore General Plan and Downtown Specific Plan EIR, SCH No. #2003032038*. 2003.
16. Cornerstone Earth Group. *Geotechnical Investigation – Oaks Business Park and Jack London Boulevard (SMP 39 and SMP 40)*. November 23, 2021.
17. Department of Resources Recycling and Recovery. *Vasco Road Landfill, Application for Solid Waste Facility Permit and Waste Discharge Requirements.* October 31, 2018.
18. Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese).* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed April 2022.
19. Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
20. State Water Resources Control Board. *GeoTracker.* Available at: https://geotracker.waterboards.ca.gov/map/?myaddress=California&from=header&cqid=8858350455. Accessed April 2022.

C. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

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

D. DETERMINATION

On the basis of this Initial Study:

☐ I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the Proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the applicant. 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 is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" 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 ENVIRONMENTAL IMPACT REPORT 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 pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Ashley Vera
Signature

1/6/23
Date

Ashley Vera, Associate Planner
Printed Name

City of Livermore
For

E. BACKGROUND AND INTRODUCTION

This Initial Study identifies and analyzes the potential environmental impacts of the proposed project. The information and analysis presented in this document are organized in accordance with the order of the California Environmental Quality Act (CEQA) checklist in Appendix G of the CEQA Guidelines. Where the analysis provided in this document identifies potentially significant environmental effects of the project that can be mitigated to a less-than-significant level, mitigation measures are prescribed. Where the analysis provided in this document identifies potentially significant environmental effects of the project that require additional analysis, further evaluation of such effects will be provided in the Environmental Impact Report (EIR) to be prepared for the project.

In 2004, the City of Livermore completed a comprehensive update of the City's General Plan and adopted an Environmental Impact Report (EIR) for the updated General Plan. The General Plan EIR is a program EIR, prepared pursuant to Section 15168 of the CEQA Guidelines (Title 14, California Code of Regulations [CCR], Sections 15000 et seq.). The General Plan EIR analyzed full implementation of the General Plan and identified measures to mitigate the significant adverse impacts associated with the General Plan. In 2009, the City certified a Supplemental EIR analyzing proposed amendments to the General Plan to include policies related to Greenhouse Gas (GHG) emissions. Applicable portions of the General Plan and General Plan EIR are incorporated by reference, as necessary, as part of this Initial Study. Project-specific technical reports have been prepared for the proposed project and form the basis of all applicable technical sections of this Initial Study. All technical reports used in the preparation of this Initial Study are included as appendices.

In addition, an EIR was prepared by Rhodes & Jamieson in 2004, which assessed the environmental impacts associated with the Surface Mining Permit applications for SMP 38, SMP 39, and SMP 40.[1] The Surface Mining Permits addressed the surface mining of approximately 212 acres and the anticipated extraction of approximately 53,354,100 tons of sand and gravel and permitted mining operations of the sites through December 31, 2030. While the EIR was certified, and the Surface Mining Permit applications were approved, mining operations have not occurred within SMP 38, SMP 39, or SMP 40.

F. PROJECT DESCRIPTION

The following provides a description of the project site's current location and setting, as well as the proposed project components and the discretionary actions required for the project.

Project Location and Setting

The +/-217.04-acre project site consists of nine separate parcels identified by APNs 904-1-7-21; 904-1-2-12; 904-1-7-32; 904-3-1-4; 904-10-2-2, -3, -5, -7, and -8 located in unincorporated Alameda County. The project site is located adjacent to the existing Oaks Business Park, which consists of eight light industrial warehouse buildings, in the northwestern corner of the City of Livermore. The project site is generally located west of Isabel Avenue/SR 84, north of Stanley Boulevard, south of West Jack London Boulevard, and east of El Charro Road (see Figure 1 and Figure 2).

APNs 904-1-7-32, 904-1-2-12, and 904-1-7-21 are also known as SMP 38; APN 904-3-1-4 is also known as SMP 39; and 904-10-2-2 is also known as SMP 40. The aforementioned SMP numbers are due to the Surface Mining Permit (SMP) numbers applicable to each site.

[1] Alameda County. *Application for Rhodes & Jamieson Aggregate Mines, Surface Mining Permits SMP-38, SMP-39, and SMP-40 Draft Environmental Impact Report (SCH #2003082034).* November 2004.

Figure 1
Regional Project Location

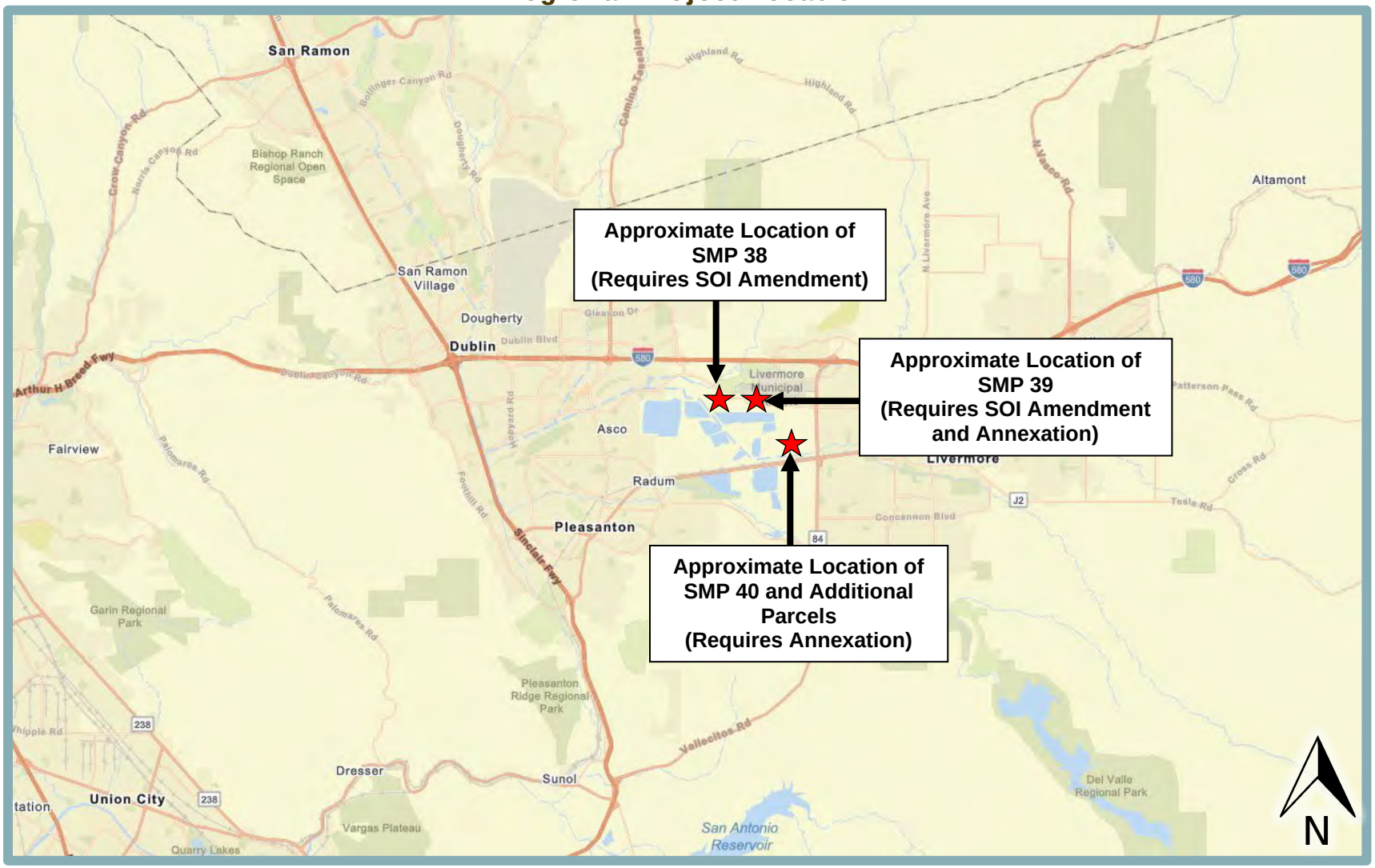
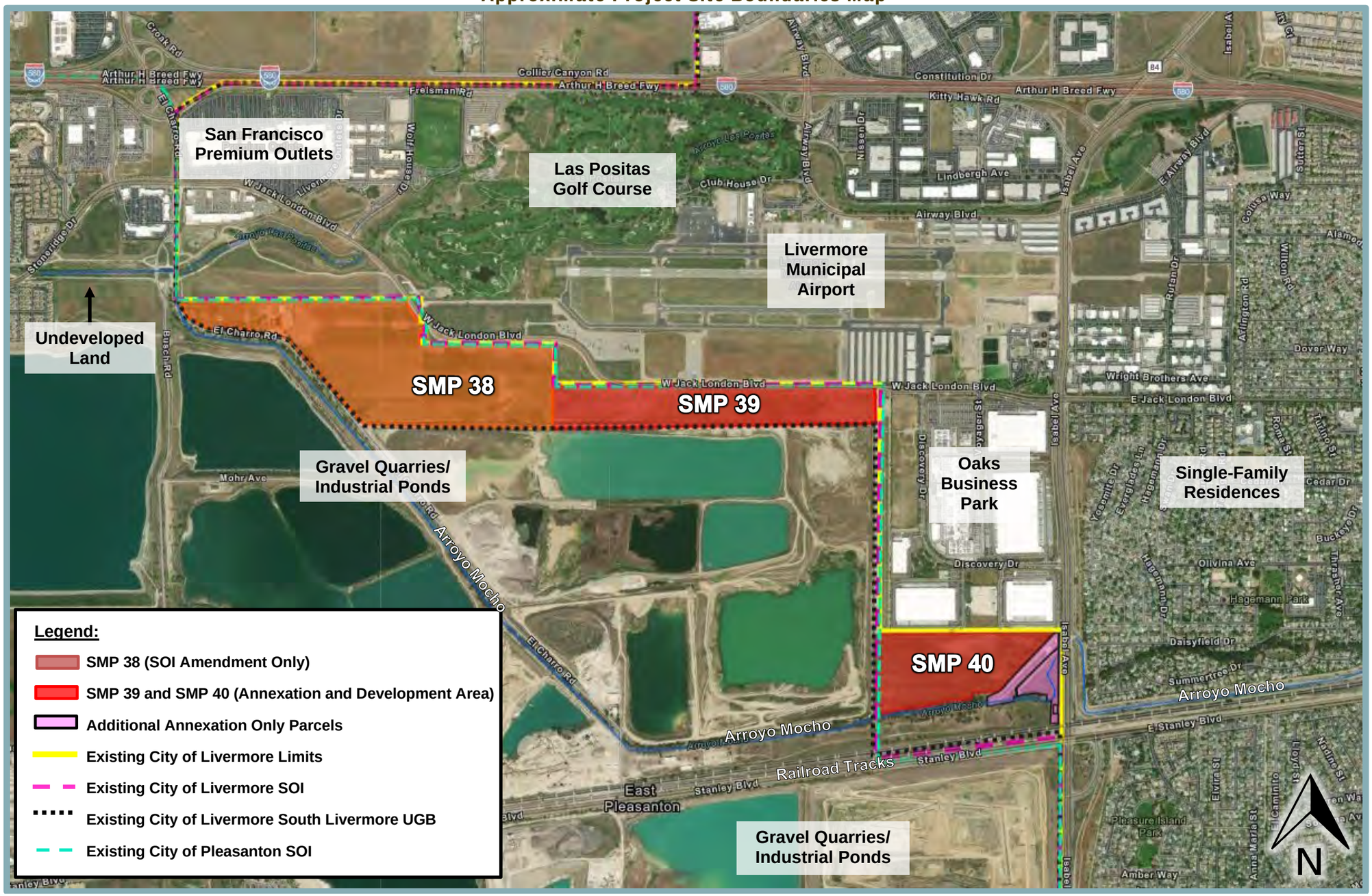


Figure 2
Approximate Project Site Boundaries Map



The Surface Mining Permits for each of the sites were approved in 2004 to allow for the extraction of sand and gravel (i.e., aggregate) within the sites; however, aggregate mining has not occurred within any of the sites. Each parcel is described in further detail below.

SMP 38

SMP 38 represents three parcels (APN 904-1-7-32, 904-1-2-12 and 904-1-7-21) and is approximately +/- 111.7 gross acres, located immediately west of SMP 39. SMP 38 is owned by Pacific Coast Aggregates LLC and is located within unincorporated Alameda County, the City of Pleasanton SOI, and the City of Livermore South Livermore Urban Growth Boundary (UGB). Several structures exist in the northwest corner of the site related to a former horse ranch. The Livermore Municipal Airport is located approximately 100 feet north of SMP 38. As such, the site is included within the Airport's Land Use Compatibility Plan (ALUCP) area. SMP 38 is within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The majority of SMP 38 is within ALUCP Safety Zone 6, with portions within Safety Zones 2 and 3. Other surrounding existing uses include undeveloped land and a paved shared-use path to the north, and the Las Positas Golf Course and shopping centers further north beyond West Jack London Boulevard; SMP 39 to the east; gravel quarries and industrial ponds associated with mining operations to the south; and undeveloped land, Arroyo Mocho, and industrial ponds to the west. The City of Livermore General Plan designates SMP 38 as Limited Agriculture, as well as Open Space/Sand and Gravel. Because SMP 38 is within the City of Pleasanton SOI and is located outside of the City of Livermore limits, the site does not have a City zoning designation. SMP 38 is within the East County Area Plan (ECAP) of the Alameda County General Plan, which designates the site as Industrial and Water Management. The site is zoned Agriculture by Alameda County, with an overlay permitting quarry operations.

SMP 39

SMP 39 (APN 904-3-1-4) is a rectangular-shaped, +/- 51.9-acre parcel owned by SMP 39, LLC. It is located within unincorporated Alameda County, the City of Pleasanton SOI, and the City of Livermore South Livermore UGB. SMP 39 is currently undeveloped and surrounded by existing uses, including a paved shared-use path and the Livermore Municipal Airport to the north; the Oaks Business Park to the east and the Arroyo Mocho Trail and single-family residences further east, across Isabel Avenue/SR 84; gravel quarries and industrial ponds associated with mining operations to the south; and SMP 38, Arroyo Mocho, and industrial ponds to the west.

The Livermore Municipal Airport is located approximately 100 feet north of SMP 39. As such, the site is included within the ALUCP area. SMP 39 is within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The majority of SMP 39 is within ALUCP Safety Zone 6, with a small portion of the northwest corner of SMP 39 located within Safety Zone 3. The City of Livermore General Plan designates the site as Open Space/Sand and Gravel. SMP 39 is within the City of Pleasanton SOI and is located outside of the City of Livermore limits, and therefore, does not have a City zoning designation. SMP 39 is also within the ECAP of the Alameda County General Plan, which designates SMP 39 as Industrial. SMP 39 is zoned Agriculture by Alameda County, with an overlay permitting quarry operations.

SMP 40

SMP 40 (APN 904-10-2-2) is an approximately +/- 70-acre parcel that is currently undeveloped and is owned by SMP 40, LLC. SMP 40 is located within unincorporated Alameda County, the City of Livermore SOI, and the City of Livermore South Livermore UGB. While the SMP 40 parcel is +/- 70 acres, upon recordation of the proposed Vesting Tentative Subdivision Map for SMP 40,

SMP 40 would be approximately +/- 40.5 acres. Thus, only approximately +/- 40.5 acres would require annexation; the balance of the SMP 40 parcel would remain within unincorporated Alameda County. SMP 40 is included within the ALUCP area, within the Airport Protection Area boundaries and the Airport Influence Area boundaries identified in the ALUCP. The entirety of SMP 40 is within ALUCP Safety Zone 6. A portion of the project site is within an area identified by the Federal Emergency Management Agency (FEMA) as Zone AE, which is considered a special flood hazard area (SFHA) within the 100-year floodplain. Surrounding existing uses include the Oaks Business Park to the north; single-family residences to the east, across Isabel Avenue/SR 84; the Arroyo Mocho, open fields, railroad tracks, and gravel quarries associated with mining operations to the south, across Stanley Boulevard; and vacant land, gravel quarries, and industrial ponds associated with mining operations to the west. The City of Livermore General Plan designates SMP 40 as Open Space/Sand and Gravel. While the SMP 40 site is within the City of Livermore SOI, the site is located outside the City limits, and therefore, does not have a City zoning designation. SMP 40 is also within the ECAP of the Alameda County General Plan, which designates SMP 40 as Industrial. The site is zoned Agriculture by Alameda County.

Additional Annexation Only Parcels

Four additional parcels (APNs 904-10-2-3, -5, -7, and -8) located east of SMP 40 are included in the overall project area. The City has chosen to include the parcels in the proposed annexation area for purposes of efficiency. The additional City-initiated annexation only parcels are within unincorporated Alameda County, the City of Livermore SOI, and the City of Livermore South Livermore UGB. APN 904-10-2-3 is an approximately 0.20-acre parcel owned by the Pacific Gas and Electric Company (PG&E) and is developed with existing PG&E infrastructure. APN 904-10-2-5 is an approximately 5.76-acre parcel owned by the Zone 7 Water Agency and serves as a flood control channel. APN 904-10-2-5 is within an area identified by FEMA as Zone AE, which is considered a SFHA within the 100-year floodplain. APN 904-10-2-7 is an approximately 1.57-acre parcel owned by the California Department of Transportation (Caltrans) and is currently undeveloped. APN 904-10-2-8 is an approximately 5.46-acre parcel owned by the City of Livermore and is currently undeveloped with scattered trees throughout the parcel.

Surrounding existing uses include the Oaks Business Park to the north; the Arroyo Mocho Trail and single-family residences to the east, across Isabel Avenue/SR 84; open fields, railroad tracks, Arroyo Mocho, and gravel quarries associated with mining operations to the south, across Stanley Boulevard; and SMP 40 and Arroyo Mocho to the west, with gravel quarries and industrial ponds associated with mining operations further to the west. The City of Livermore General Plan designates the additional parcels as Open Space/Sand and Gravel. While the additional parcels are within the City of Livermore SOI, they are outside of the City limits, and, therefore, do not have City zoning designations. The additional parcels are also within the ECAP of the Alameda County General Plan, which designates the parcels as Industrial. The parcels are zoned Agriculture by Alameda County.

Project Components

For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings consisting of up to 758,808 sf of new building space with related internal roadways and other improvements. A number of approvals would be required for development of SMP 39 and SMP 40, including a SOI Amendment for SMP 39, General Plan Amendment, Pre-zoning and Annexation, Zoning Map Amendment/Planned Development, Vesting Tentative Subdivision Maps, a Pre-Annexation Agreement, and Development Agreement.

A Site Plan Design Review entitlement is required for SMP 39 and SMP 40, which would include a review of the site plan, building, and landscape design; however, the entitlement is only proposed for SMP 40 at this time. A Site Plan Design Review entitlement will be required at a later date for the future development of SMP 39. Development of SMP 38 is not proposed. The proposed project includes an SOI Amendment to include SMP 38 within the City of Livermore SOI. The City of Livermore General Plan land use designation for SMP 38 would remain Limited Agriculture and Open Space/Sand and Gravel and the Alameda County zoning would remain Agriculture. A detailed description of the proposed project, including the necessary approvals, is provided below.

Annexation, SOI Amendment, and Pre-Annexation Agreement

SMP 38, SMP 39, SMP 40, and the additional annexation only parcels described above are within the City of Livermore South Livermore UGB; however, SMP 38 and SMP 39 are within the City of Pleasanton's SOI. Accordingly, an SOI Amendment for SMP 38 and SMP 39 is proposed in order to modify SOI and South Livermore UGB boundaries, align the SOI and South Livermore UGB boundaries to be consistent with one another, and provide a contiguous division of land between the cities of Livermore and Pleasanton (see Figure 3). Annexation of SMP 38 into the City of Livermore is not proposed as part of the project, nor is development of the three parcels representing SMP 38.

In addition to the SOI Amendment for SMP 39, the proposed project would include annexation of the SMP 39 site into the City of Livermore. The proposed project would also include annexation of a portion of the SMP 40 parcel, as well as the Additional Annexation Only Parcels, which are all currently within the City of Livermore's SOI, into the City of Livermore. While the SMP 40 parcel is +/- 70 acres, upon recordation of the proposed Vesting Tentative Subdivision Map for SMP 40, SMP 40 would be approximately +/- 40.5 acres. Thus, only the +/- 40.5-acre SMP 40 site would require annexation; the balance of the SMP 40 parcel would remain within unincorporated Alameda County. Figure 4 shows the proposed annexation area, which totals approximately 92.5 acres. The City of Livermore SOI and City limit boundaries upon implementation of the proposed project are shown on Figure 5 and the City of Pleasanton SOI limit boundaries upon implementation of the proposed project are shown on Figure 6.

It should be noted that the likelihood for any future development on the Additional Annexation Only Parcels is low due to physical constraints to development present on the parcels. Thus, this analysis assumes that any development on the Additional Annexation Only Parcels would be limited to cooperating with the project applicant regarding development of the proposed trail and trail connection, which is discussed in further detail under the Site Plan for SMP 40 section of this Initial Study, below.

Annexation of the total +/-92.5 acres into the City of Livermore and the proposed SOI Amendment are formal municipal reorganization actions that require approval by the Alameda County Local Agency Formation Commission (LAFCo).

First, the Livermore City Council would consider adopting a resolution to initiate the annexation and SOI amendment proceedings, which would subsequently be submitted to the Alameda County LAFCo for approval as a Responsible Agency. The City and the County would negotiate a property tax split to determine how much property tax the City would receive and how much the County would retain. Annexation of SMP 39, SMP 40, and the Additional Annexation Only Parcels would formally transfer all governmental powers and municipal services pertaining to the parcels from Alameda County to the City of Livermore.

Figure 3
Proposed SOI Amendment Area

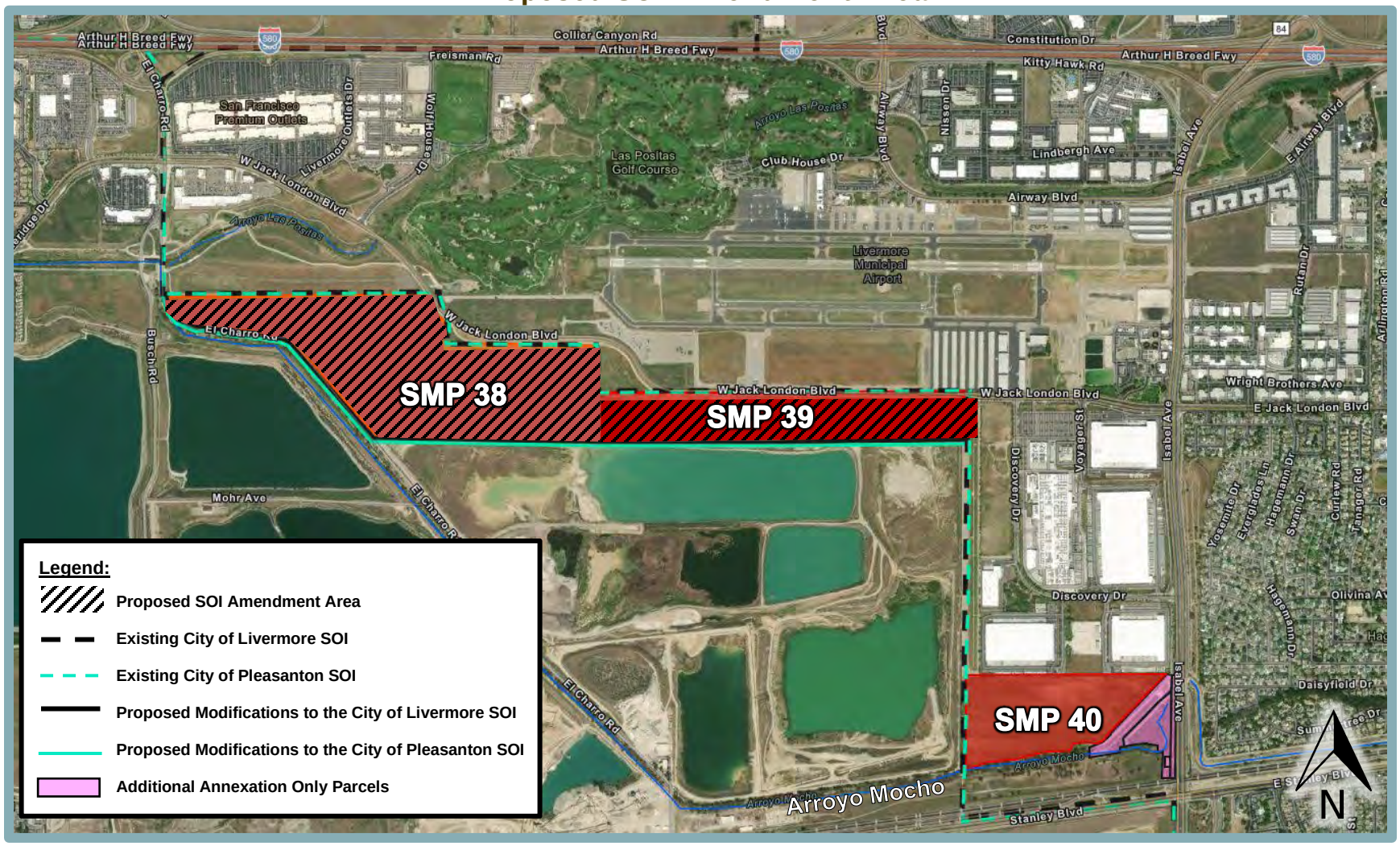


Figure 4
Proposed Annexation Area

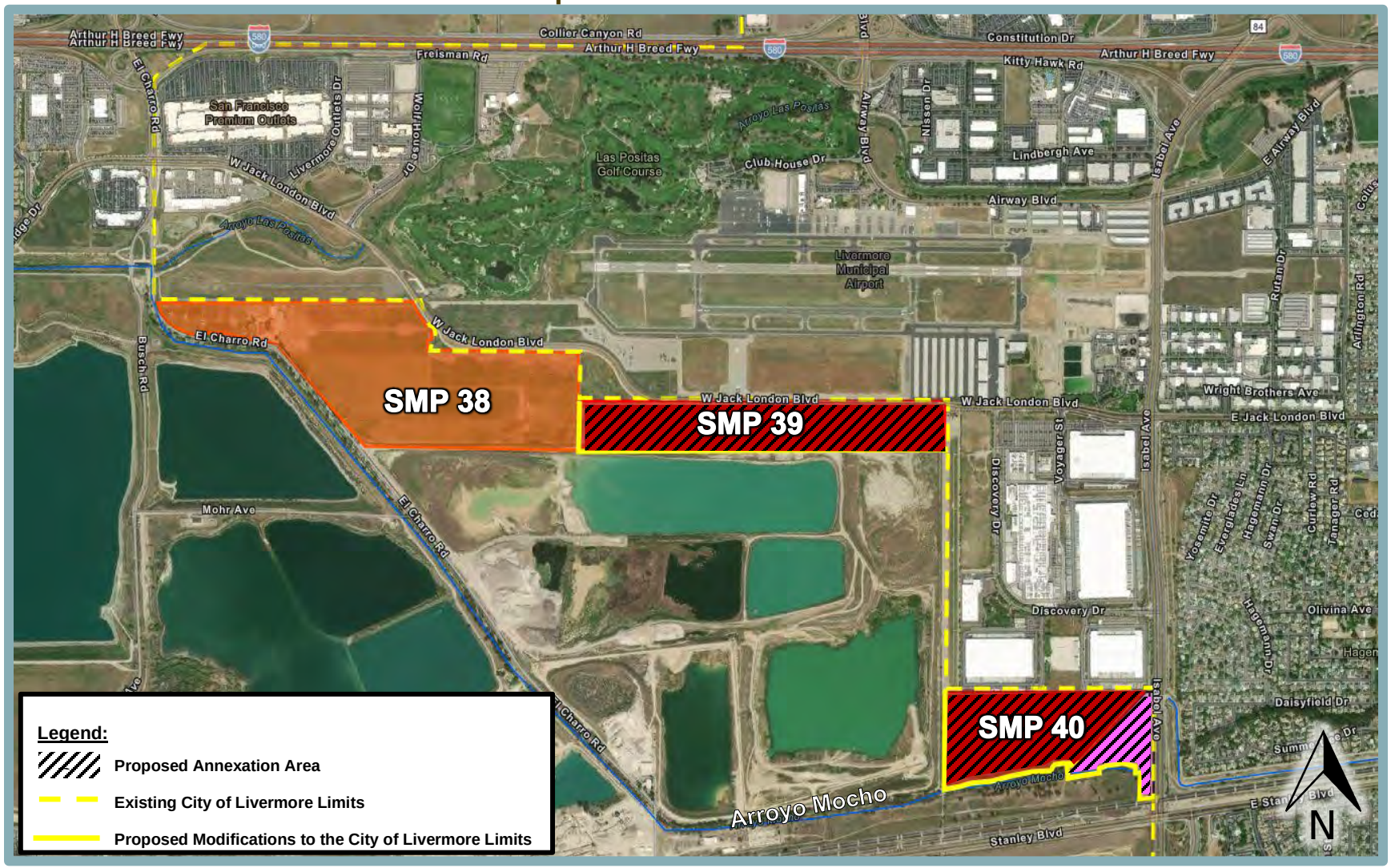


Figure 5
Proposed City of Livermore Boundary Amendments

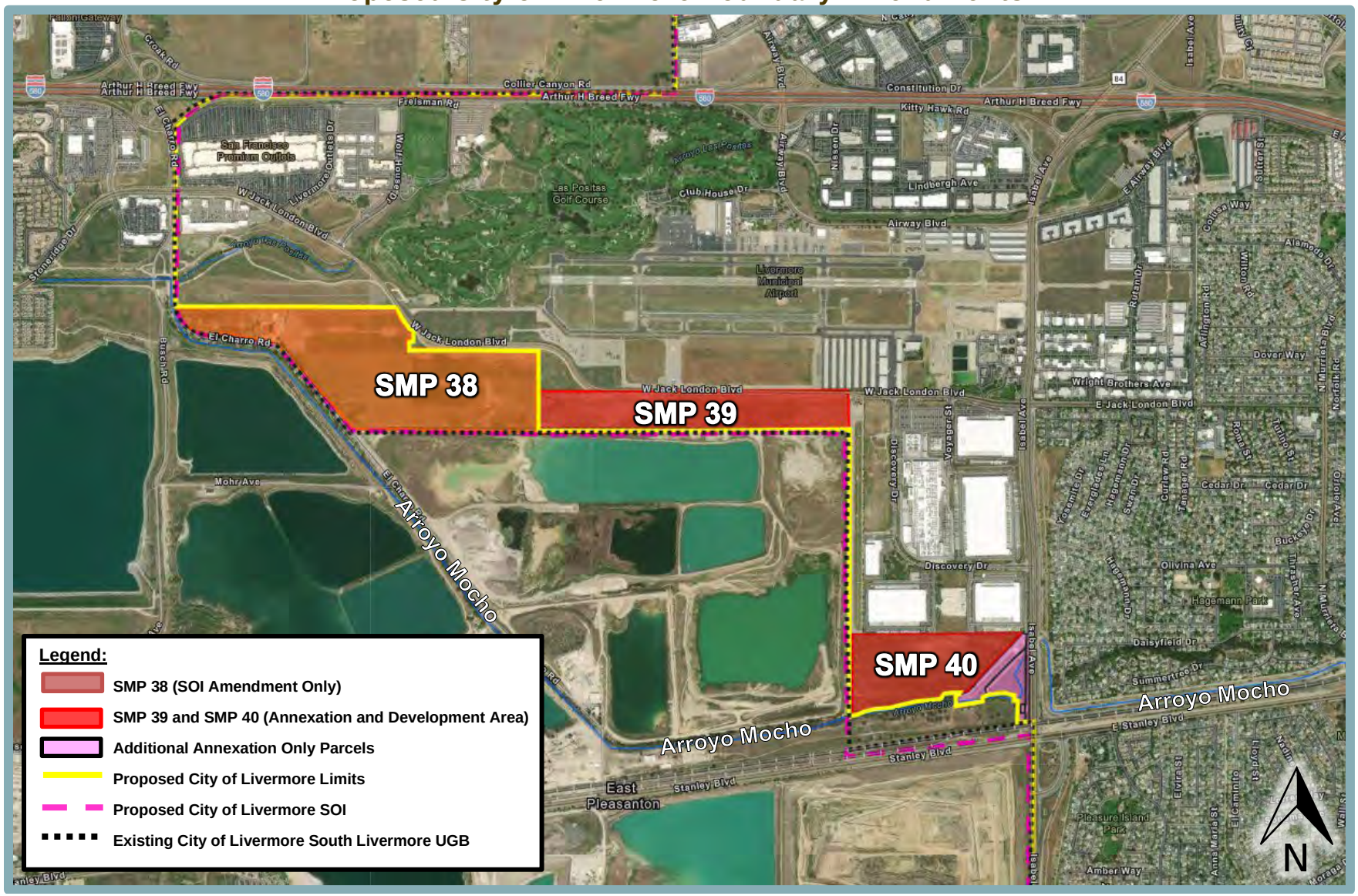
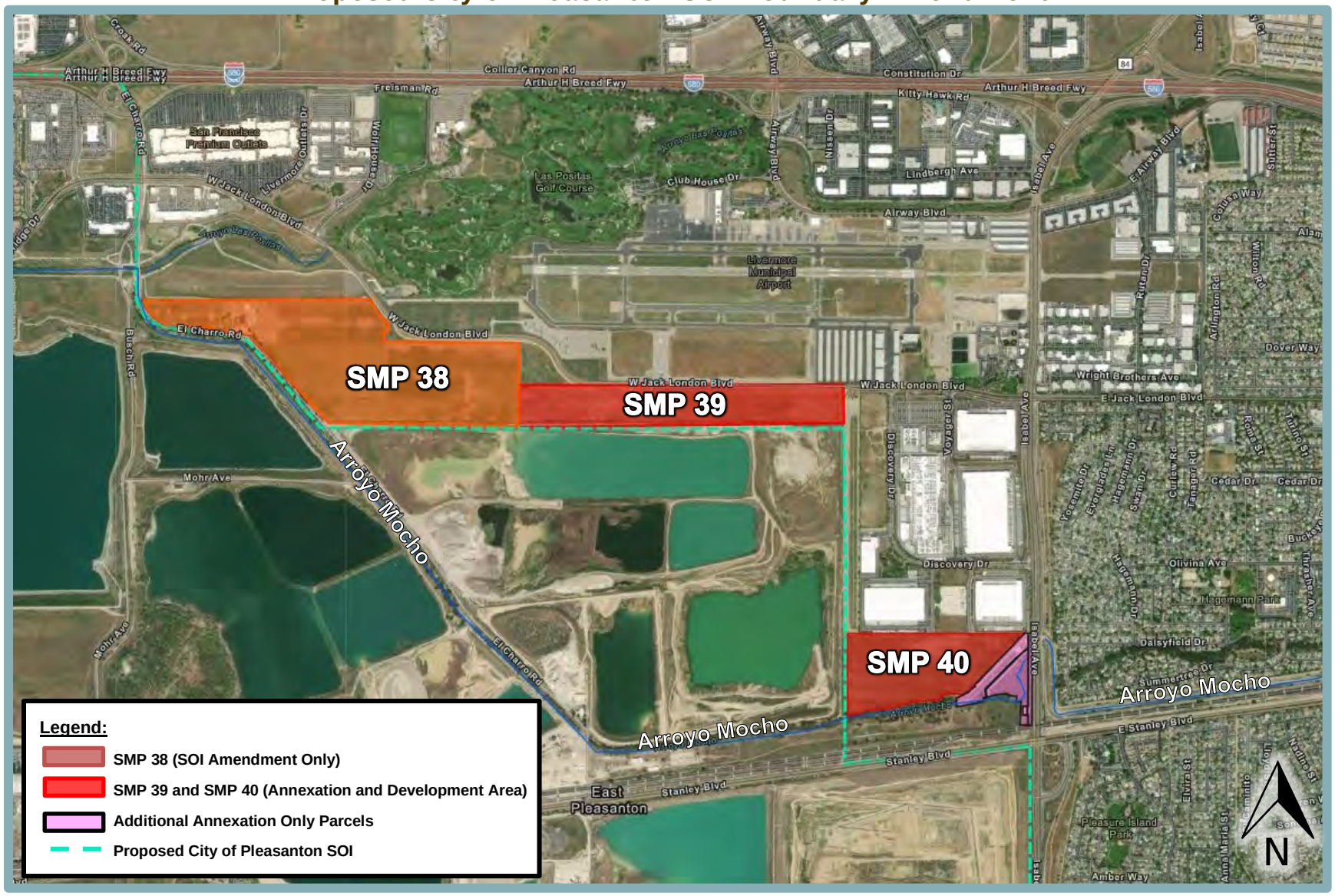


Figure 6
Proposed City of Pleasanton SOI Boundary Amendment



Upon annexation, the City would be responsible for providing water service, sewer service, police protection, and general government services, along with maintaining public water and sewer mains, and the on-site storm drainage system. A Pre-Annexation Agreement is proposed for SMP 39 and SMP 40. The Pre-Annexation Agreement with the City of Livermore would identify a number of financial responsibilities and other agreements for the applicant (e.g., paying utility connection fees and all costs for making connections, paying the project's fair share for frontage improvements, paying processing fees for LAFCo and utilities, obtaining City design review and approval for any future additions or alterations, agreeing not to subdivide the property, etc.).

General Plan Amendment

The proposed project would include a General Plan Amendment to modify the existing land use designations for SMP 39 and SMP 40 from Open Space/Sand and Gravel to Low Intensity Industrial (LII), while the Annexation Only Parcels would be re-designated Parks, Trailways and Recreation Areas (OSP). A General Plan Amendment is not proposed for SMP 38.

Pre-zoning and Zoning Map Amendment

Consistent with the Cortese-Knox-Hertzberg Local Government Reorganization Act, Pre-zoning shall be applied to the annexation areas (i.e., SMP 39, SMP 40, and the Annexation Only Parcels) (see Gov. Code Section 56375). Because these areas are currently located within the jurisdiction of Alameda County, the sites do not have any existing City of Livermore zoning designations. Consistent with the proposed City of Livermore General Plan land use designations, SMP 39 and SMP 40 would be pre-zoned to Planned Development-Industrial (PDI-22-001), while the Annexation Only Parcels would be pre-zoned Open Space Flood Plain (OS-F). The proposed project would also require an amendment to the City of Livermore Zoning Map to reflect the new PDI-22-001 zoning designation for SMP 39 and SMP 40 and an OS-F designation for the Annexation Only Parcels.

The PDI-22-001 proposed Development Standards applicable to the SMP 39 and SMP 40 sites would include specific setbacks, building design, building heights, uses, and landscaping. For example, the PDI-22-001 Development Standards would limit the height of all on-site structures, including rooftop mechanical equipment, to 35 feet, plus an additional foot of height for every additional foot of setback above that required, not to exceed a maximum of 50 feet of height, except upon providing a minimum 40-foot setback from street rights-of-way. A Conditional Use Permit may be requested to increase height to a maximum of 55 feet. Building heights are subject to Federal Aviation Administration (FAA) review under FAA regulations, Part 77. The height of pole- and building-mounted lights may be approved up to 28 feet by an administrative Site Plan and Design Review, if found necessary for the health and safety of a site designed for truck or other large vehicle maneuvering and documented by a light study to not cause glare off-site. The principal permitted uses for the SMP 39 and SMP 40 sites under the proposed PDI-22-001 are preliminarily anticipated to include warehouse and distribution, research and development, office, manufacturing, and other light industrial uses. Additional uses for SMP 39 are preliminary anticipated to include restaurants, except for fast food, and additional uses for SMP 40 are preliminarily anticipated to included e-commerce/fulfillment facilities. These preliminary uses are subject to further refinement by the City.

Vesting Tentative Subdivision Maps

The proposed project would include subdivision and development of the SMP 39 and SMP 40 sites, which are discussed in detail separately below.

Vesting Tentative Subdivision Map for SMP 39

The proposed project would include subdivision of the SMP 39 site into up to six lots, ranging in size from +/- 5.75 acres to +/- 11.76 acres.

Utilities

Water service for SMP 39 would be provided by the City of Livermore. Potable water would be supplied to the site by an existing 12-inch potable water line within West Jack London Boulevard. The existing 12-inch potable water line runs along West Jack London Boulevard to within 1,250 feet of the westernmost property boundary, then turns north and travels through the Livermore Municipal Airport. This line would be extended west as a dead end main for a maximum distance of 550 feet in order to serve the westernmost proposed parcel. Each proposed building parcel would have two 12-inch potable water service fire connections from the West Jack London Boulevard main. The domestic water services would be installed off of at least one of the fire services using a City of Livermore standard manifold connection.

Sanitary sewer service for SMP 39 would connect to the existing eight-inch public sanitary sewer main within West Jack London Boulevard. New service laterals shall be installed to each proposed lot.

Stormwater from the new impervious areas within SMP 39 would be collected and treated pursuant to the requirements listed the City of Livermore's Municipal Separate Storm Sewer System (MS4) Permit. The eastern half of the site would be discharged directly to the existing storm drain system within Jack London Boulevard through new service laterals connected to each lot. The remaining western portion shall discharge to a new 18- to 24-inch public storm drain line that runs approximately 600 feet north along the western property line of City of Livermore parcel APN 904-3-1-1 and connect to the existing storm drain system of West Jack London Boulevard.

Recycled water for SMP 39 would be supplied to the site by extending the existing 12-inch recycled water line located within West Jack London Boulevard from the western boundary of the Oaks Business Park (Tract 7300) west approximately 3,800 feet.

New four-inch service laterals would be connected to each proposed lot. Recycled water would be used for all site irrigation and may be used for non-potable uses, as determined on a project-by-project basis.

Preliminary utility information for SMP 39 would be provided within the Vesting Tentative Subdivision Map prepared for the site. In addition, as discussed above, a Site Plan Design Review entitlement will be required at a later date for the future development of SMP 39. As part of Site Plan and Design Review approval, a comprehensive utility plan and hydrology plan will be submitted to the City for review. Some information will be provided with the Vesting Tentative Tract Map, but the Site Plan and Design Review will occur later.

Vesting Tentative Subdivision Map for SMP 40

The proposed project would include a Vesting Tentative Subdivision Map for SMP 40 to subdivide the site into two lots. As discussed above, while the SMP 40 parcel is +/- 70 acres, upon recordation of the proposed Vesting Tentative Subdivision Map for SMP 40, SMP 40 would be approximately +/- 40.5 acres. As such, the western lot would be approximately 24.5 acres and the eastern lot would be 16 acres.

Utilities

Water service for SMP 40 would be provided by the City of Livermore. Potable water would be supplied to the site by an extension of the existing water lines within Atlantis Court and Challenger Street to the north. In addition, fire hydrants are proposed throughout the SMP 40 site (see Figure 7 and Figure 8).

Sanitary sewer service for SMP 40 would be provided by the City of Livermore. The proposed project would include construction of new sanitary sewer lines throughout the site that would extend to the existing line in Atlantis Court. The proposed sanitary sewer lines within the project site would direct wastewater from Buildings 1 and 2 to a new 6-inch line between the proposed buildings, which would ultimately connect to an existing manhole and eight-inch line within Atlantis Court.

According to the Stormwater Quality Control Plan that has been prepared for the SMP 40 site, stormwater from impervious areas within SMP 40 would flow to a number of catch basin filtration inserts located throughout the SMP 40 site. The catch basins would connect a new network of stormwater lines to three 96-inch underground storage vaults located west of Building 1, within the internal drive aisle, between the dock doors and trailer parking. The storage vaults would be placed five feet underground and surrounded by rock. Stormwater from the storage vaults would be routed north and west to the existing detention basin located northwest of Building 1, within the Oaks Business Park, before being ultimately directed into a portion of the Arroyo Mocho Bypass Channel.

A portion of SMP 40 and the annexation only parcel, owned by the Zone 7 Water Agency and identified by APN 904-10-2-5, are within an area identified by FEMA as Zone AE, which is considered a SFHA within the 100-year floodplain. The proposed project would involve importing soils to bring the proposed building area above the 100-year floodplain, subject to approval of a Letter of Map Revision (LOMR) from FEMA.

Hydraulic modeling and mapping have been prepared to show the updated floodplain and floodway, and the technical studies have been submitted to FEMA. Effective mapping will be reviewed and is subject to approval by FEMA prior to issuance of a LOMR.

Site Plan and Design Review

The proposed development of SMP 39 and SMP 40 would be subject to Site Plan and Design Review by the City of Livermore.

Chapter 9.07 of the City's Development Code specifies that the purpose of Site Plan and Design Review "is to provide a process for the appropriate review of construction and development projects." Such review is intended to ensure that new development and/or redevelopment within the City respect environmental and aesthetic considerations, reduce potential visual impacts, and provide for physical safety of the public, among other considerations. The site plans for SMP 39 and SMP 40 are discussed in detail separately below.

Site Plan for SMP 39

SMP 39 would be developed with up to six light industrial buildings totaling approximately 755,500 sf of new building space (see Figure 9). Each building would have a maximum height of 50 feet. The buildings are conceptually proposed at this time. They would range in size from 89,400 sf to 183,600 sf and would each include between eight to 34 dock doors for a total of 104 dock doors.

Figure 7
Preliminary Utility Plan for SMP 40, Building 1

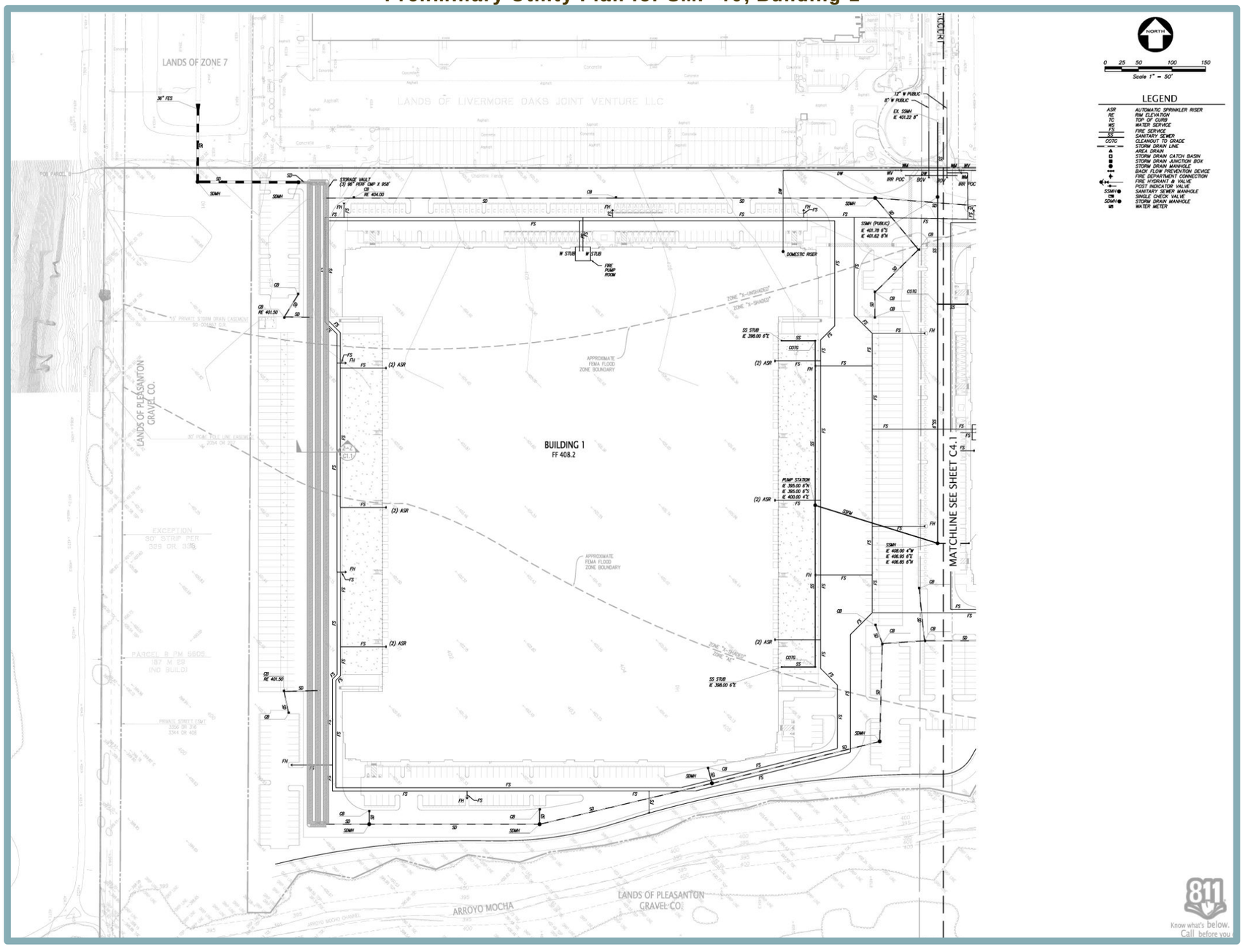


Figure 8
Preliminary Utility Plan for SMP 40, Building 2

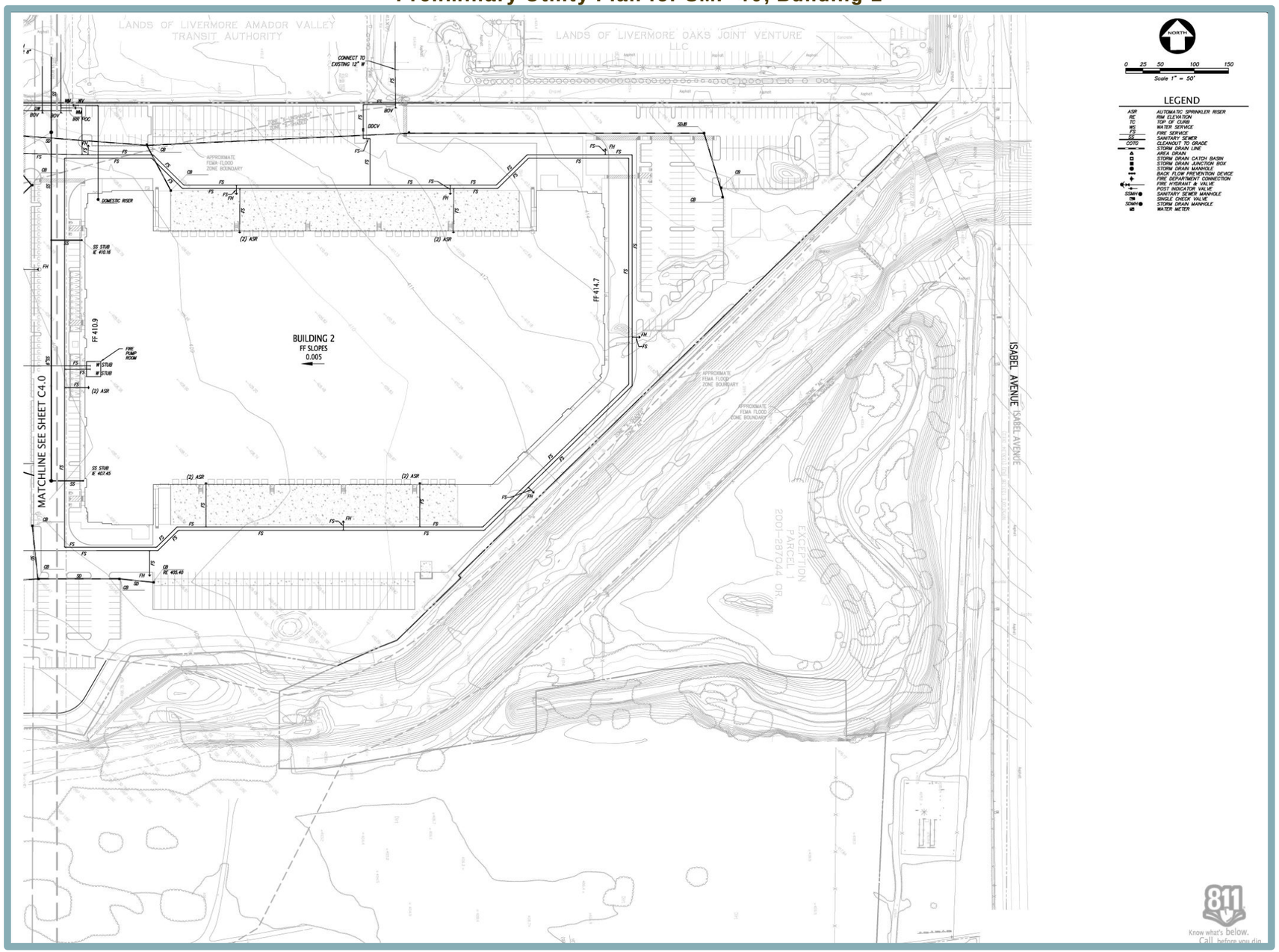
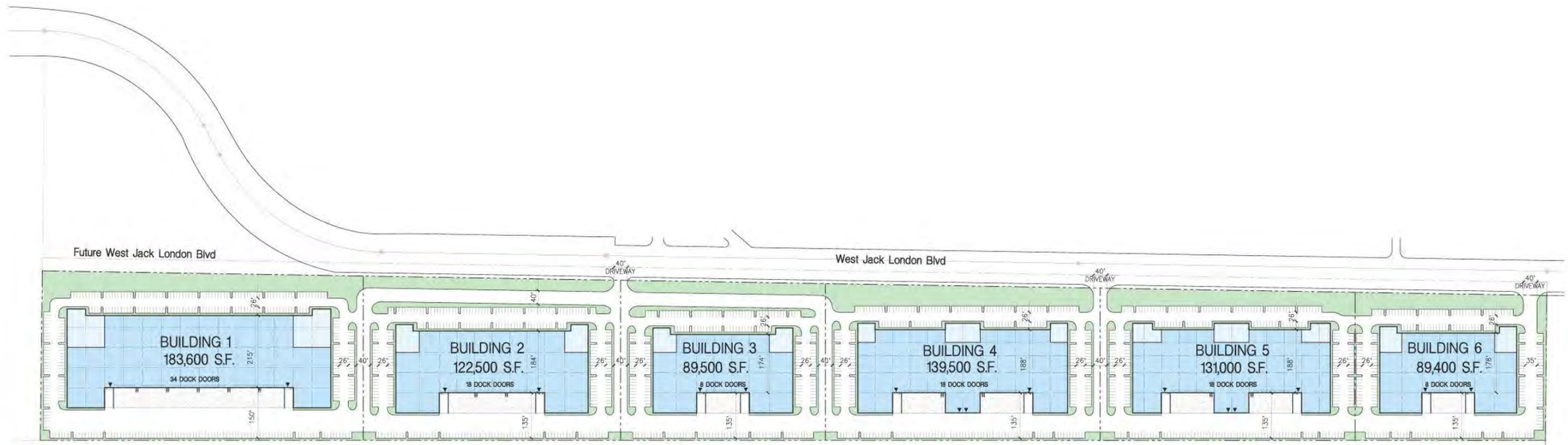


Figure 9
Preliminary Site Plan for SMP 39



Tabulation

	BLDG.1	BLDG.2	BLDG.3	BLDG.4	BLDG.5	BLDG.6	TOTAL	
SITE AREA								
In s.f.	473,671	367,700	285,788	363,649	337,531	256,615	2,084,953	s.f.
In acres	10.87	8.44	6.56	8.35	7.75	5.89	47.86	ac
BUILDING AREA								
Office	20,000	10,000	6,000	10,000	10,000	6,000	62,000	s.f.
Industrial	163,600	112,500	83,500	129,500	121,000	83,400	693,500	s.f.
TOTAL	183,600	122,500	89,500	139,500	131,000	89,400	755,500	s.f.
COVERAGE	38.8%	33.3%	31.3%	38.4%	38.8%	34.8%	36.2%	
AUTO PARKING REQUIRED								
Office: 1/300 s.f.	67	33	20	33	33	20	207	stalls
Industrial 1/1,200 s.f.	136	94	70	108	101	70	578	stalls
TOTAL	203	127	90	141	134	90	785	stalls
CLIENT REQUIRED AUTO PARKING								
Standard 2/1000 s.f.	374	245	177	279	256	176	1,507	stalls
AUTO PARKING PROVIDED								
Standard (9' x 19')	360	280	225	287	268	227	1,647	stalls

north

1" = 120'

Aerial Map

Legend

- POTENTIAL OFFICE
- INDUSTRIAL
- LANDSCAPE
- ▼ DRIVE THRU DOOR

A total of 1,663 parking stalls would be provided at the SMP 39 site. This includes 104 truck/trailer stalls.

Access, Circulation, and Parking

Access to SMP 39 would be provided through three new 40-foot-wide driveways from West Jack London Boulevard to the north. The new driveways would be located along the eastern boundary of the site near Building 6, between Buildings 4 and 5, and between Buildings 2 and 3. New paving for parking stalls and drive aisles would be provided along the north, east, and west sides of each new building. The loading docks would be located on the south side of each building, opposite from West Jack London Boulevard, accessible through a larger drive aisle along the southern portion of the site. Additional parking stalls would be located along the southern boundary of the site, opposite the loading docks and larger drive aisle. After implementation of the proposed project, a total of 1,663 parking stalls would be provided at the SMP 39 site. SMP 39 will install 5 percent Electric Vehicle (EV) Charging stalls, with an additional 5 percent provided conduit for future EV charging. The site will include 2 percent Vanpool/ Clean Air stalls.

The proposed project would include frontage improvements to and right-of-way dedication for the ultimate buildout of West Jack London Boulevard. Ultimate buildout of the roadway is anticipated to consist of four through lanes, including a 12-foot through lane and a 14-foot through lane on each side, a 16-foot landscape median buffer in the center of the roadway, as well as a six-foot bike line on each side of the roadway, separated from the through lanes by a two-foot buffer. As part of the proposed frontage improvements, the project would include an at-grade, paved shared-use path within a 38.5-foot trail easement along the project frontage, consistent with the City's Active Transportation Plan (ATP) (see Figure 10), which would provide connection to the existing path along the western boundary of the Oaks Business Park and eventually to the Arroyo Mocho Trail. The proposed path would be similar to the existing path along the Oaks Business Park site.

Landscaping

Landscaping improvements would be implemented throughout the project site. All landscaping improvements would be consistent with the City's Design Standards and Guidelines and the City's Water Efficient Landscape Ordinance.

Site Plan for SMP 40

SMP 40 would be developed with two light industrial buildings totaling approximately 758,808 sf of new building area (see Figure 11). Each building would have a maximum height of 50 feet. The 470,330-sf Building 1 would be located on the western portion of the SMP 40 site and include a total of 68 loading dock doors along the western and eastern sides of the building (34 on each side).

The 288,595-sf Building 2 would be located on the eastern portion of the SMP 40 site and include a total of 62 loading dock doors along the northern and southern sides of the building (34 on the north and 28 on the south). A total of 633 vehicle parking stalls and 166 trailer parking stalls would be provided at the SMP 40 site.

Access, Circulation, and Parking

Access to SMP 40 would be provided through new internal roadway connections to Atlantis Court and Challenger Street to the north, which currently serve the existing Oaks Business Park. The new roadway connections would be located between Buildings 1 and 2. The new roadway connections would provide access to the internal drive aisles around each building.

Figure 10
Existing and Proposed Trails

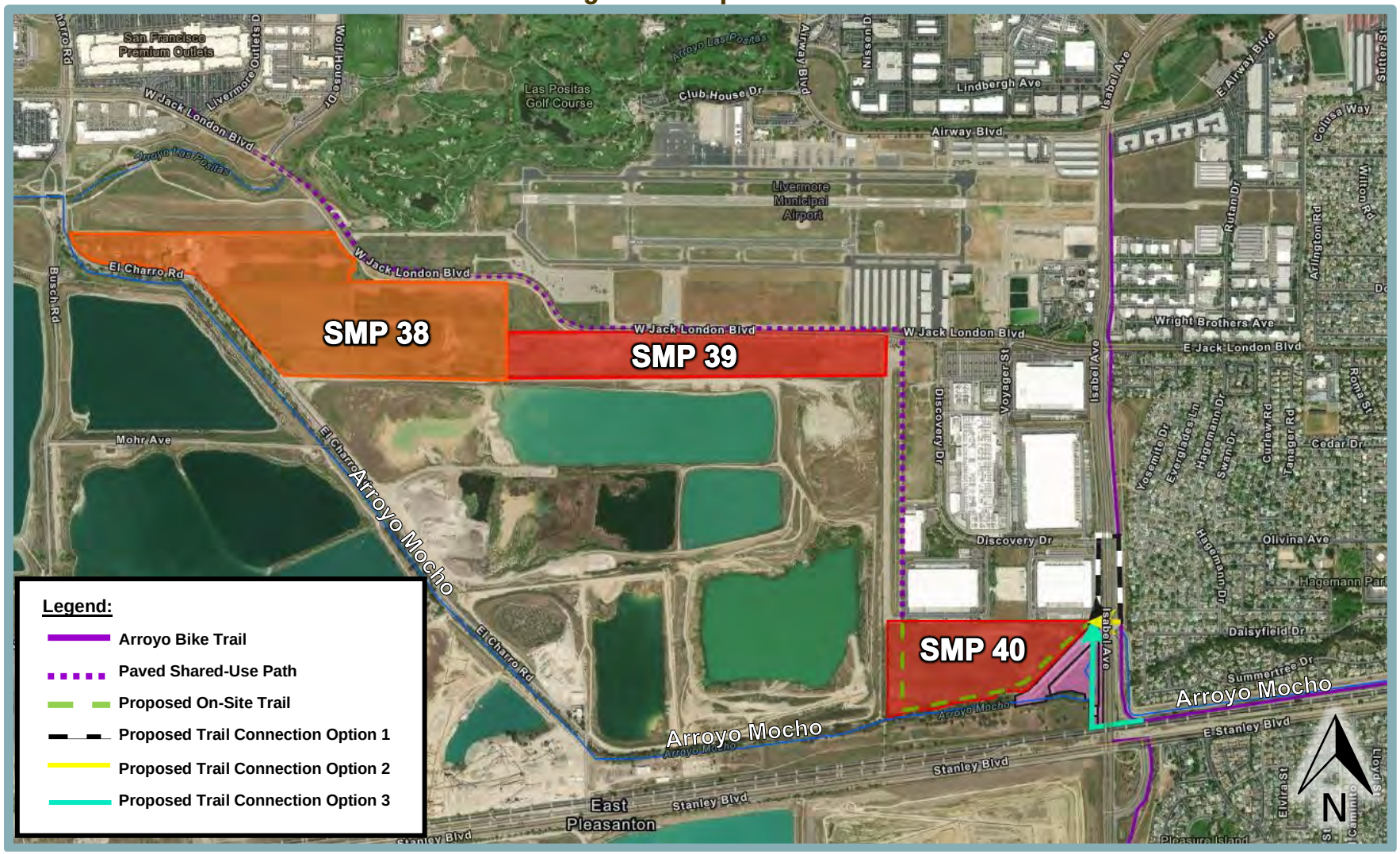
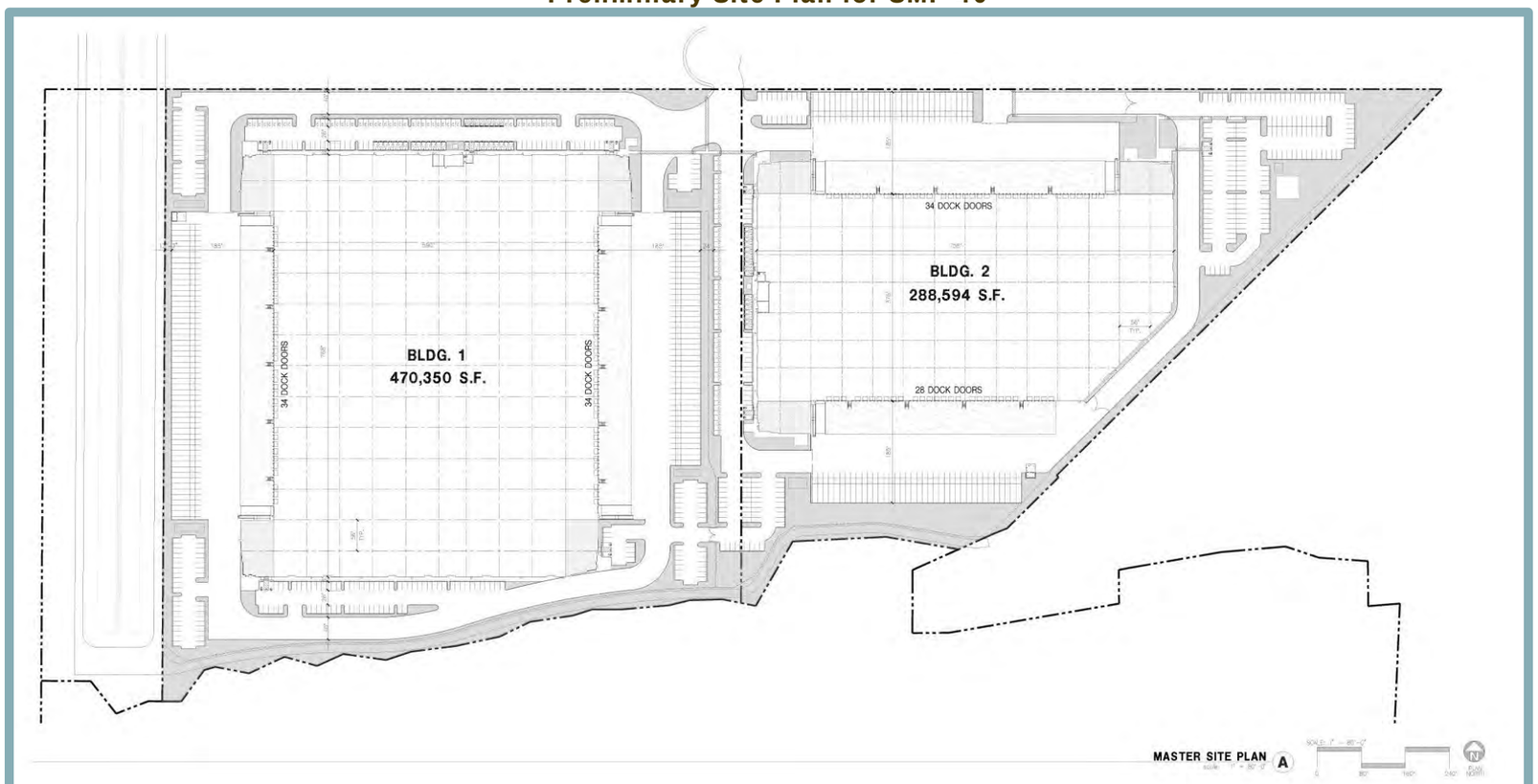


Figure 11
Preliminary Site Plan for SMP 40



SITE PLAN GENERAL NOTES

1. THE SITE PLAN BASED ON THE SOILS REPORT PREPARED BY: GEOTECHNICAL ENGINEER, DATE, PROJECT NUMBER #
2. IF SOILS ARE EXPANSIVE IN NATURE, USE STEEL REINFORCING ON ALL SITE CONCRETE.
3. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE WALL, FACE OF CONCRETE CURB OR GRID LINE, U.N.O.
4. SEE "C" PLANS FOR ALL CONCRETE CURBS, GUTTERS AND SWALES.
5. PROVIDE STRUCTURAL CALCULATION AND CONSTRUCTION ANCHORAGE DETAIL FOR TRANSFORMER PRIOR TO INSTALLATION.
6. SEE "C" DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. SEE "C" DRAWINGS.
8. CONTRACTOR TO REFER TO "C" DRAWINGS FOR ALL HORIZONTAL CONTROL DIMENSIONS. SITE PLANS ARE FOR GUIDANCE AND STAKING LAYOUT POINTS.
9. SEE "C" DRAWINGS FOR FINISH GRADE ELEVATIONS.
10. CONCRETE SIDEWALKS TO BE A MINIMUM OF 4" THICK W/ TOOLED JOINTS AT 6' O.C. EXPANSION/CONSTRUCTION JOINTS SHALL BE A MAXIMUM 1.5" I.R. WAY W/ 1/2" MIN. SLOPE. EXPANSION JOINTS TO HAVE COMPRESSIVE EXPANSION FILLER MATERIAL OF 1/4". FINISH TO BE A MEDIUM BROOM FINISH.
11. HAND PROVIDE HIGH MOUNDS AT ALL BRIDGE ENTRANCES.
12. PAINT CURBS AND PROVIDE SIGNS TO INFORM OF FIRE LANES AS REQUIRED BY FIRE DEPARTMENT.
13. ON-SITE FIRE MAIN, FIRE SPRINKLER, AND SPRINKLER MONITORING SYSTEM SHALL BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW AND PERMITTING.
14. ALL VERTICAL MOUNTING POLES OF FENCING SHALL BE SAWCUT.
15. LANDSCAPED AREAS SHALL BE DELINEATED WITH A MINIMUM SIX INCHES (6") HIGH CURB.
16. ALL INTERIOR AND EXTERIOR WALK SURFACES TO BE NON-SLIP TYPE.

SITE PLAN GENERAL NOTES

- CONCRETE PAVING SEE "C" DRAWS. FOR THICKNESS
- COMPACT PARKING STALL 8' X 16' (14' WITH 2' OVERHANG)
- STANDARD PARKING STALL 9' X 18' (18' WITH 2' OVERHANG)
- ACCESSIBLE PARKING STALL (9' X 18') ACCESSIBLE AISLE SEE DETAIL 11/A0.1
- EV READY STALLS WITH CHARGER
- TRAILER PARKING (10' X 53')
- ACCESSIBLE PARKING (VAN) STALL (9' X 18') + 8' W/ ACCESSIBLE AISLE
- LANDSCAPED AREA
- HIGH ACCESSIBLE PATH
- "X%" OF TRAVEL MINIMUM WIDTH TO BE 4% SLOPE NOT TO EXCEED 5% IN THE DIRECTION OF TRAVEL AND CROSS SLOPE NOT TO EXCEED 2%, SEE CIVIL

VICINITY MAP

PROJECT DATA

	BLDG. 1	BLDG. 2	TOTAL
SITE AREA			
	1,047,991	716,737	1,764,728 s.f.
	24.1	16.5	40.5 ac
BUILDING AREA			
Office	10,000	13,000	23,000 s.f.
Warehouse	460,350	275,594	735,944 s.f.
TOTAL	470,350	288,594	758,944 s.f.
COVERAGE (45% Max.)	44.9%	40.3%	43.0%
AUTO PARKING REQUIRED			
Office: 1/300 s.f.	34	44	78 stalls
Whse: 1/1,200 s.f.	384	230	614 stalls
TOTAL	418	274	692 stalls
AUTO PARKING PROVIDED			
Standard (9'x 18')	213	223	436 stalls
Compact (8'x 16') 30% of total max	130	0	130 stalls
Accessible parking (9' x 18')	4	3	stalls
Accessible Van (9' x 18' +8' aisle)	4	3	stalls
EV/Clean Air/Vanpool	8	6	stalls
Future EV	21	14	stalls
Future EVCS (Standard Accessible)	1	1	stalls
Future EVCS (Van)	1	1	stalls
TOTAL	382	251	633 stalls
TRAILER PROVIDED			
Trailer (10' x 53')	99	67	166 stalls

ZONING ORDINANCE FOR CITY
Proposed Zoning Designation - Industrial (PD)

SETBACKS
Building
Isabel Rd / B4 - 45' (increased to allow 40' max. ht.)
New Interior St. - 35' (increased to allow 40' max. ht.)
Rear/Side - None
Landscape
All required Yards shall be landscaped. If Parking lot is provided between building and street reduce LS at street by up to 10' and place removed LS at building adjacent to parking.

MAXIMUM BUILDING HEIGHT ALLOWED
Height - 40'
Proposed Height - Up to 55'

As noted above, a total of 633 auto parking stalls would be provided for the SMP 40 site, 14 of which would be reserved for EV/clean air/vanpool vehicles and 39 of which would be reserved for EVs only. A total of 14 of the 633 spaces would be Americans with Disabilities Act (ADA) accessible, one of which would also allow for EV charging. In addition, conduit would be pulled from the electrical room of each building to one truck court in each building for future EV chargers. A total of five percent of the parking stalls would be EV charging parking stalls, with an additional five percent to be provided conduit for future EV charging.

The 633 parking stalls would be located throughout the site, including along the northern and southern sides of Building 1, and northeast of Building 2. The 166 trailer parking stalls would be located opposite the internal drive aisles from each loading dock area.

The proposed project would include a paved at-grade, on-site trail along the boundaries of the SMP 40 site, consistent with the City's ATP (see Figure 10). Specifically, the on-site trail would extend from the northeastern corner of the site, along the project site's eastern, southern, and western boundaries, before connecting to an off-site existing paved shared-use path at the northwestern corner of site, which extends along the west side of the Oaks Business Park to the north and connects to West Jack London Boulevard. The portion of the on-site trail located along the site's eastern and southern boundaries would be located within a Zone 7 easement north of the Arroyo Mocho, and the portion of the trail along the western boundary of the site would be within the Zone 7 channel. In addition, the proposed project would include a new off-site trail connection to the existing Arroyo Mocho Trail, located on the east side of Isabel Avenue/SR 84. For the purposes of this analysis, three alternatives for the proposed off-site Isabel Avenue/SR 84 crossing to the existing Arroyo Mocho Trail are being considered and evaluated in the EIR, including the following, as shown in Figure 12:

- Trail Connection Option 1 – At-Grade Crossing at Discovery Drive;
- Trail Connection Option 2 – Undercrossing at Isabel Bridge; and
- Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84.

Each of the three alternatives are described in further detail below.

Trail Connection Option 1 – At Grade Crossing at Discovery Drive

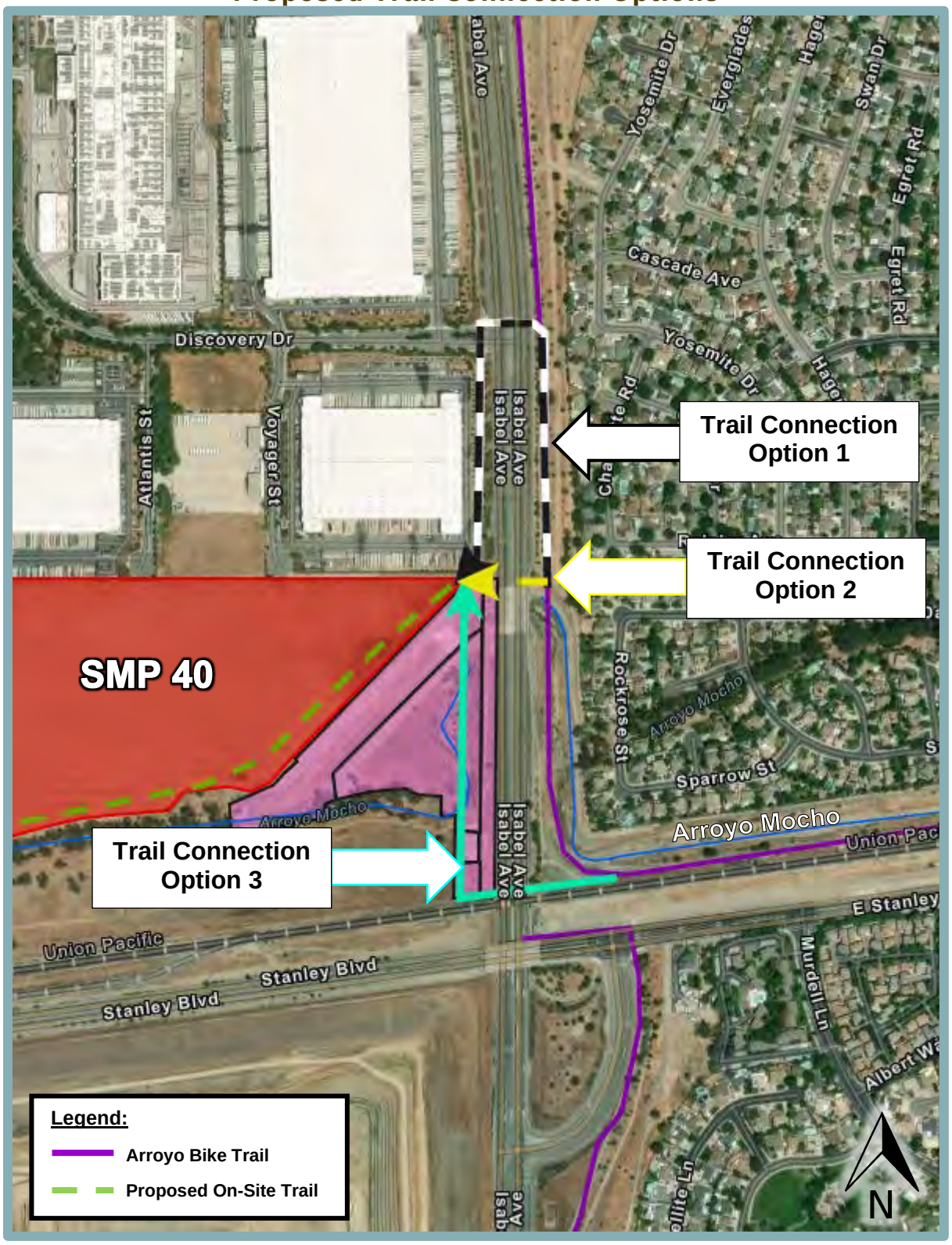
Off-site trail connection Option 1 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site within a Zone 7 easement, off-site and north along the western side of Isabel Avenue/SR 84 to Discovery Drive, where a new pedestrian crossing would be added across Isabel Avenue/SR 84 to connect to the existing Arroyo Mocho Trail on the eastern side of Isabel Avenue/SR 84. Off-site trail connection Option 1 would require either the relocation an existing 18-inch recycled water line or the use of retaining walls on either side of the trail near the connection point to existing Arroyo Mocho Trail on the east side of the crossing.

In addition to City approval, off-site trail connection Option 1 would require coordination with, easements from, and/or approvals by Zone 7, Caltrans, and property owner(s) along the proposed trail alignment north of SMP 40.

Trail Connection Option 2 – Undercrossing at Isabel Bridge

Off-site trail connection Option 2 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site within a Zone 7 easement, off-site to a grade-separated undercrossing of Isabel Avenue/SR 84 at the existing Isabel Bridge, where the trail would connect to the existing Arroyo Mocho Trail on the eastern side of Isabel Avenue/SR 84.

Figure 12
Proposed Trail Connection Options



The trail undercrossing is anticipated to be constructed above the ordinary high water mark (OHWM) of the Arroyo Mocho, would be approximately 14 feet wide, and provide a minimum of seven feet of clearance under the bridge. An existing PG&E 20-inch gas main located west of the bridge may require relocation under off-site trail connection Option 2. It should be noted that the City's ATP identifies an undercrossing as the preferred crossing of Isabel Avenue/SR 84.

In addition to City approval, off-site trail connection Option 2 would require coordination with, easements from, and/or approvals by Zone 7, Caltrans, PG&E, State Water Resources Control Board (SWRCB), and California Department of Fish and Wildlife (CDFW), as well as potentially the U.S. Army Corps of Engineers (USACE) if work below the OHWM cannot be avoided.

Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84

Off-site trail connection Option 3 would include the extension of the proposed on-site trail from the northeastern-most point of the SMP 40 site within a Zone 7 easement, off-site and south through the Additional Annexation Only Parcels to just north of the existing railroad tracks and associated crossing (north of Stanley Boulevard), where a new above-grade crossing over Isabel Avenue/SR 84 is proposed to connect to the existing Arroyo Mocho Trail at the northeast corner of Stanley Boulevard and Isabel Avenue/SR 84. The trail overcrossing is anticipated to be an approximately 170-foot bike/pedestrian metal fabricated clear span bridge that would run parallel to the existing bridge for the railroad tracks.

In addition to City approval, off-site trail connection Option 3 would require coordination with, easements from, and/or approvals by Zone 7, Caltrans, and PG&E.

Internal Connections to the Public Trail System

City staff and the project applicant will look into the feasibility that on-site employees have pedestrian/bicycle access to the public trail system proposed along the exterior of the two sites, while ensuring on-site security. For SMP 39, the primary employee access to the public trail system would be from the frontages of the respective parcels. For SMP 40, primary access to the trail system would be from the northeast portion of the property and/or the northwest portion. This will be further refined once the final trail system is selected by the City.

Landscaping

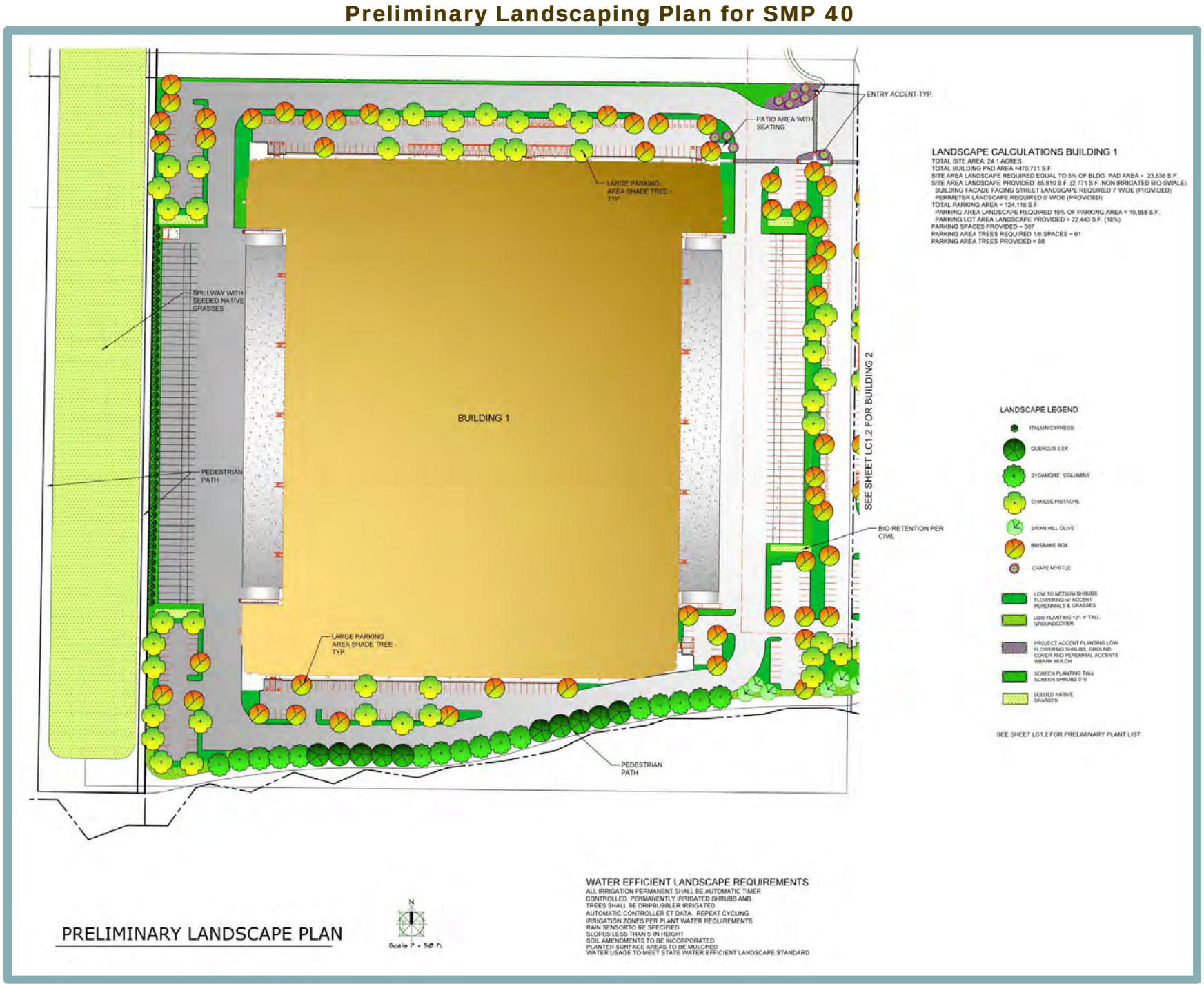
Landscaping improvements would be implemented throughout the SMP 40 project site (see Figure 13).

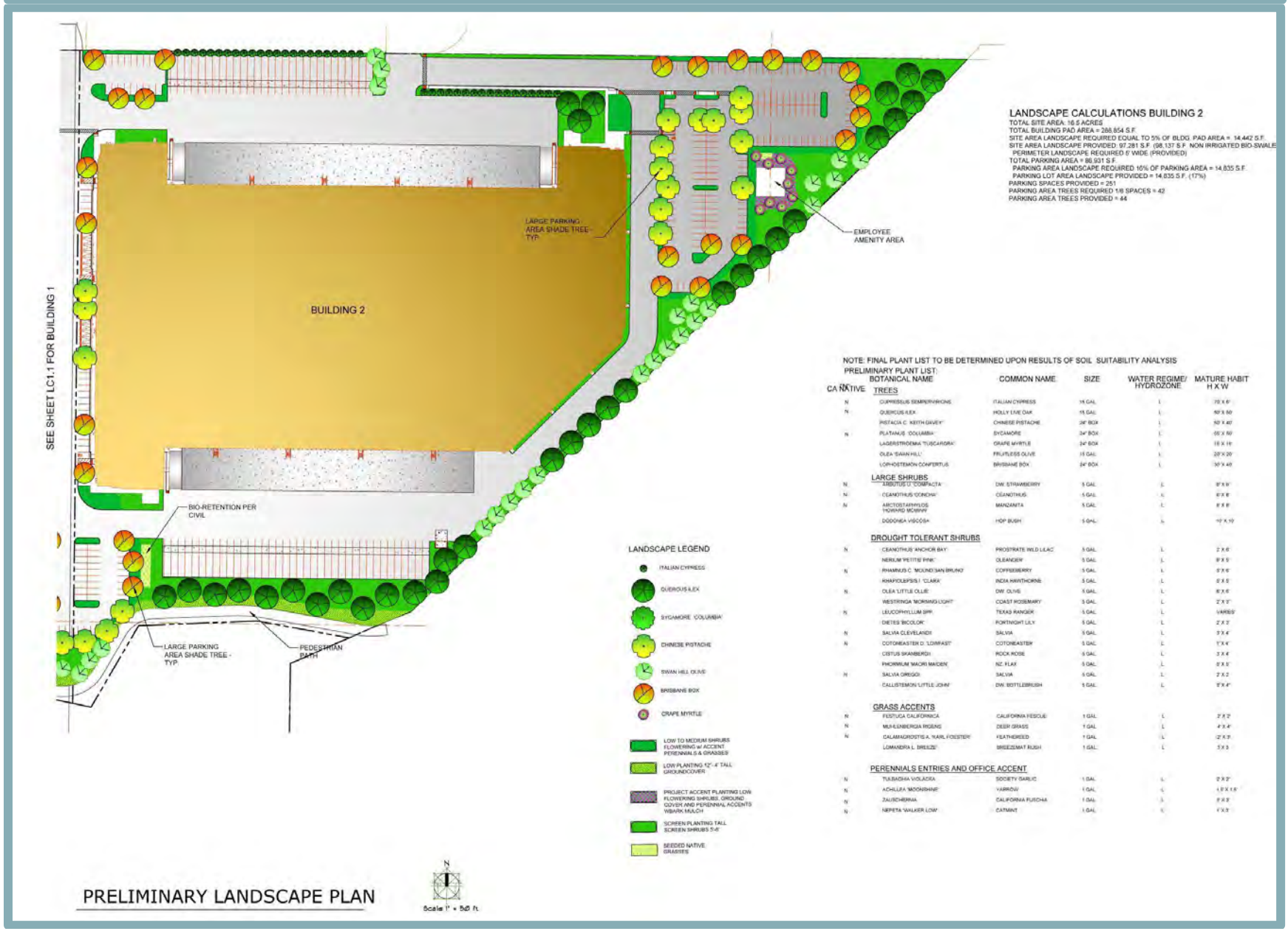
The proposed project would use reclaimed water from existing lines in Challenger Street and Atlantis Court for irrigation. All landscaping improvements would be consistent with the City's Design Standards and Guidelines and the City's Water Efficient Landscape Ordinance.

Development Agreement

The proposed project would include a Development Agreement for SMP 39 and SMP 40, which would allow the City and the applicant to enter into an agreement to assure the City that the proposed project would be completed in compliance with the plans submitted by the applicant and assure the applicant of vested rights to develop the project. The proposed project would provide a trail connection and an annual financial contribution for two years as the public amenities.

Figure 13
Preliminary Landscaping Plan for SMP 40





The financial contribution would support the City's Office of Innovation and Economic Development efforts to market the properties such that the properties meet Citywide goals for an innovation driven economy, generate high wage jobs, and/or generate substantial sales tax revenues.

Proposed Operations

The exact users or operations for the proposed project sites are unknown at this time; however, the uses are anticipated to be industrial uses consistent with the City's Low Intensity Industrial General Plan designation, including research and development, professional and administrative offices, experimental and testing laboratories, and manufacturing of electronic and other high-end complex products. Exclusive warehouse/ distribution uses would be a permitted use for SMP 40 only.

Discretionary Actions

The proposed project would require the following approvals from the City of Livermore:

SMP 38

Resolution authorizing submittal of a SOI Amendment application to the Alameda County LAFCo.

SMP 39

- Resolution authorizing submittal of an annexation and SOI Amendment application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation for SMP 39 from Open Space/Sand and Gravel to Low Intensity Industrial (LII);
- Pre-zone the site as PDI-22-001;
- Zoning Map Amendment;
- Vesting Tentative Subdivision Map;
- Development Agreement; and
- Pre-Annexation Agreement.

SMP 40

- Resolution authorizing submittal of an annexation application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation for SMP 40 from Open Space/Sand and Gravel to Low Intensity Industrial (LII);
- Pre-zone the site as PDI-22-001;
- Zoning Map Amendment;
- Vesting Tentative Subdivision Map;
- Site Plan and Design Review;
- Development Agreement; and
- Pre-Annexation Agreement.

Additional Annexation Only Parcels (APNs 904-10-2-3, -5, -7, and -8)

- Resolution authorizing submittal of an annexation application to the Alameda County LAFCo;
- General Plan Amendment to modify the City's land use designation from Open Space/Sand and Gravel to Parks, Trailways and Recreation Areas (OSP); and
- Pre-zone the sites to Open Space Flood Plain (OS-F).

In addition to approvals from the City of Livermore, the proposed project would require approvals, permits, resolutions/letters of support, or other coordination efforts from responsible and trustee agencies, as well as other public agencies, including, but not limited to, the following:

- Alameda County LAFCo;
- Alameda County Airport Land Use Commission (ALUC);
- City of Pleasanton;
- Pacific Gas and Electricity (PG&E);
- Federal Aviation Administration (FAA);
- Federal Emergency Management Agency (FEMA);
- Bay Area Air Quality Management District (BAAQMD);
- California State Water Resources Control Board (SWRCB);
- San Francisco Regional Water Quality Control Board (RWQCB);
- Zone 7 Water Agency;
- Caltrans;
- California Department of Fish and Wildlife (CDFW); and
- U.S. Army Corps of Engineers (USACE) (tentative).

G. ENVIRONMENTAL CHECKLIST

The following checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the proposed project. A discussion follows each environmental issue identified in the checklist. For this checklist, the following designations are used:

Potentially Significant Impact: An impact that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

Less Than Significant with Mitigation Incorporated: An impact that requires mitigation to reduce the impact to a less-than-significant level.

Less-Than-Significant Impact: Any impact that would not be considered significant under CEQA relative to existing standards.

No Impact: The project would not have any impact.

I. AESTHETICS. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Have a substantial adverse effect on a scenic vista?	☐	✖	☐	☐
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?	☐	✖	☐	☐
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	✖	☐
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	✖	☐

Discussion

a,b. Examples of typical scenic vistas include mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. In general, a project's impact to a scenic vista would occur if development of the project would substantially change or remove a scenic vista. The City's General Plan identifies a number of roadways within the Planning Area that are considered scenic routes. Scenic routes are designated as such because they pass through areas of high scenic value or provide access to important scenic, recreational, cultural, or historic points.[2] Scenic routes identified in the project vicinity include Interstate 580 (I-580) and Isabel Avenue. In addition, the General Plan identifies specific scenic vista points throughout the City. Figure 4-1 of the City's' General Plan, identifies the area looking south from I-580 towards the Las Positas Golf Course as a scenic vista.

According to the City's General Plan, protection of scenic views from I-580 is of particular importance, because the roadway provides some of the best views of Livermore's surrounding hillsides and ridgelines. As such, the City seeks to preserve views from I-580 through control of grading, landscaping, and building height within the I-580 Scenic Corridor. The I-580 Scenic Corridor is defined as areas that are within 3,500 feet of the freeway centerline and are visible from the roadway. While a small portion of SMP 38 is located within 3,500 feet of I-580, the proposed project would not include development of SMP 38. The remaining portions of the project site are located outside of the I-580 Scenic Corridor. Moreover, the project site is not visible from I-580 due to existing intervening vegetation and development within the City, which obstructs views of the project site from I-580.

While the City has identified Isabel Avenue as a scenic route, primarily due to the rural nature of the roadway having views of the City's agricultural and vineyard landscape within the southern portion of the City, views currently offered from the portion of Isabel Avenue in the vicinity of the project site are not of high scenic quality. For example, existing development occurs on either side of Isabel Avenue in the project vicinity and north to I-580. SMP 38 and SMP 39 are not visible from Isabel Avenue due to the existing intervening development located along the roadway. While SMP 40 and the Additional Annexation Only Parcels would be visible from Isabel Avenue, development of SMP 40

[2] City of Livermore. *General Plan* [pg. 4-25]. Amended December 2014.

would be visually consistent with the existing adjacent industrial development to the north. In addition, the proposed project would not include development of the Additional Annexation Only Parcels. As a result, the Additional Annexation Only Parcels would provide a visual buffer between the development on SMP 40 and Isabel Avenue. In addition, landscaping would be provided along the eastern boundary of SMP 40 that, upon reaching maturity, would screen views of the development.

The proposed project would include one of the following off-site trail connections:

- Trail Connection Option 1 – At Grade Crossing at Discovery Drive;
- Trail Connection Option 2 – Undercrossing at Isabel Bridge; or
- Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84.

Trail Connection Option 1 would include the construction of a new at-grade pedestrian crossing across the existing Isabel Avenue/SR 84, and Trail Connection Option 2 would connect to a grade-separated undercrossing of Isabel Avenue/SR 84 at the existing Isabel Bridge. Therefore, given that Trail Connection Options 1 and 2 would be built within existing roadways or infrastructure, and would not involve the construction of any new structures, Trail Connection Options 1 and 2 would not have the potential to substantially alter the scenic nature of views from I-580 or Isabel Avenue. Trail Connection Option 3 would include the construction of a new above-grade crossing over Isabel Avenue/SR 84 (see Figure 14). The trail overcrossing is anticipated to be an approximately 170-foot bike/pedestrian metal fabricated clear span bridge that would run parallel to the existing bridge for the railroad tracks. While Isabel Avenue is identified by the City as a scenic route, concrete barriers are located along both sides of the portion of the roadway that the above-grade crossing would be constructed over, which obscure any scenic views along the roadway. As such, the roadway segment would not be considered to provide views of high scenic value and does not provide access to important scenic, recreational, cultural, or historic points. In addition, an existing railroad overcrossing is currently located just south of the proposed above-grade trail crossing. Therefore, views in the vicinity of the proposed above-grade trail crossing are currently being partially obstructed. Furthermore, the proposed crossing of Isabel Avenue associated with a trail connection is consistent with the City's ATP, and, thus, impacts related to development of the proposed trail connection have already been anticipated by the City. However, as shown in Figure 14, the trail overcrossing is anticipated to be a metal fabricated clear span bridge, which could conflict with the existing built and natural environment in the area. As such, the proposed trail option would have the potential to substantially alter the scenic nature of views from Isabel Avenue if the bridge is not constructed with similar materials of the existing roadway and overcrossings.

According to the California Scenic Highway Mapping System, the project site is not located within the vicinity of an officially designated State Scenic Highway. I-580 is an Eligible State Scenic Highway, but has not been officially designated. The nearest officially designated State Scenic Highway is I-680, located approximately 4.18 miles from the project site.[3] Thus, the proposed project would not have a significant impact on a State Scenic Highway.

[3] California Department of Transportation. *California State Scenic Highway System Map.* Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed April 2022.

Figure 14
Trail Connection Option 3 Overcrossing

Based on the above, development of the proposed project would not have a substantial adverse effect on a scenic vista and would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway. However, if Trail Connection Option 3 is chosen, and the proposed overcrossing is not constructed with similar materials of the existing roadway and overcrossings, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impacts to a *less-than-significant* level.

I-1. *In the event that Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84 is the selected Trail Connection Option for the proposed project, improvement plans associated with the proposed above-grade crossing shall be submitted to the City's Community Development Department for review and approval to ensure that the proposed above-grade crossing is constructed using soft earth tone colors that help the bridge blend in with the surrounding landscape.*

c. While SMP 39 and 40 are undeveloped, several structures exist in the northwest corner of SMP 38 related to a former horse ranch, and some structures exist on the Additional Annexation Only Parcels. Surrounding uses in the project area generally include the Oaks Business Park adjacent to the northern boundary of SMP 40; the San Francisco Premium Outlets, the Las Positas Golf Course, and the Livermore Municipal Airport to the north of SMP 38 and SMP 39; single-family residences to the east; and gravel quarries/industrial ponds to the south and west.

Generally, the site is located within an urbanized area; therefore, the relevant threshold would be whether the proposed project would conflict with applicable zoning and other regulations governing scenic quality. Although development of SMP 38 and the four Additional Annexation Only Parcels is not proposed as part of the project, for SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings containing up to 758,808 sf of new building space with related internal roadways and other improvements. Both SMP 39 and SMP 40 are currently vacant and undeveloped. However, development of SMP 39 and SMP 40 would be subject to Site Plan and Design Review pursuant to Section 9.07.020 of the City's Development Code. Chapter 9.07 of the City's Development Code specifies that the purpose of Site Plan and Design Review "is to provide a process for the appropriate review of construction and development projects." As part of the design review process, the project would be reviewed for conformance with the City of Livermore Design Standards and Guidelines, which include provisions related to architectural design, landscaping, exterior materials, and compatibility with existing uses.[4] Compliance with such would ensure consistency with all applicable policies and guidelines related to visual resources in the project vicinity. For example, in compliance with Industrial Building Design Guidelines Standards 1.1.1, 3.3.1, and 6.1.1 of the City of Livermore Design Standards and Guidelines, the proposed project would be designed such that surface parking areas facing a public street would be buffered by berming or landscaping, a variety of building

[4] City of Livermore. *Design Standards and Guidelines*. Adopted June 28, 2004.

types and designs would be incorporated, and exterior building colors would be compatible with the surrounding natural and built environment.

Furthermore, the PDI-22-001 proposed Development Standards applicable to the SMP 39 and SMP 40 sites would include specific setbacks, building design, building heights, uses, and landscaping. For example, the PDI-22-001 Development Standards would limit the height of all on-site structures, including rooftop mechanical equipment, to 35 feet, plus an additional foot of height for every additional foot of setback above that required, not to exceed a maximum of 50 feet of height, except upon providing a minimum 40-foot setback from street rights-of-way. A Conditional Use Permit may be requested to increase height to a maximum of 55 feet. The allowed height of the proposed buildings would be compatible with the height of the existing development within the project area, including the Oaks Business Park, which was built to an allowable height of 40 feet and the option to increase the height to a maximum of 55 feet with a Conditional Use Permit.

With regard to the proposed trail connection options, as discussed above, the proposed crossing of Isabel Avenue associated with a trail connection is consistent with the City's ATP, and, thus, impacts related to development of the proposed trail connection have already been anticipated by the City. In addition, the chosen trail connection option would be required to adhere to all applicable City design standards and would be reviewed through the City's Design Review process. Furthermore, if Trail Connection Option 3 is chosen, the proposed overcrossing would be constructed using soft earth tone colors that help the bridge blend in with the surrounding landscape, as required by Mitigation Measure I-1, above.

Based on the above, the proposed project would not conflict with applicable zoning and other regulations governing scenic quality, and a ***less-than-significant*** impact would occur.

d. Due to the largely undeveloped nature of the project site, existing sources of light and glare do not currently exist within the majority of the site. However, as discussed above, several structures exist in the northwest corner of SMP 38 related to a former horse ranch, which create sources of light and glare within a portion of the site. It should be noted that while the Additional Annexation Only Parcels are currently developed, the on-site structures are used for infrastructure and emit negligible amounts of light. In addition, existing sources of light and glare are currently present within the project vicinity, mainly associated with roadway lighting along the project site frontages, the Livermore Municipal Airport, and the outdoor and indoor lighting fixtures of existing development within the project vicinity such as the Oaks Business Park.

Development of the project site with the proposed industrial warehouses and parking areas would involve sources of light and glare associated with interior light spilling through windows, exterior lighting on the proposed structures, outdoor lighting on the internal drive aisles and within parking areas, and light reflected off windows. Given that Trail Connection Options 1 and 2 would be built within existing roadways or infrastructure, and would not involve the construction of any new structures, Trail Connection Options 1 and 2 would not have the potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the area. Trail Connection Option 3 would include the construction of a new above-grade crossing over Isabel Avenue/SR 84, which would involve potential sources of light and glare. However, through the City's Site Plan and Design Review process, the proposed project would be reviewed for consistency with

the City's Design Standards and Guidelines.[5] Section F, Lighting Design, of Chapter 4 of the City's Design Standards and Guidelines contains specific restrictions to ensure that the design of fixtures and the light provided contributes to the character of development and does not adversely affect adjacent development. Pursuant to Section 5.1.1 of the Guidelines, area lighting should be designed so as to avoid light being directed off-site. In addition, Section 2.1.4 states that lighting should be directed downward to avoid lighting of the night sky. Compliance with the foregoing sections of the City's Design Standards and Guidelines would ensure that lighting from the proposed project would not be directed off-site, and would not adversely affect the residential development to the east of the project site.

Given that the Site Plan and Design Review process would include plan checks to ensure that proposed lighting features are properly designed to avoid lighting off-site onto nearby commercial, industrial, or residential developments, or into the night sky, implementation of the project would result in a ***less-than-significant*** impact with respect to creating a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

[5] City of Livermore. *Design Standards and Guidelines* Adopted June 28, 2004.

II. AGRICULTURE AND FOREST RESOURCES. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	✖	☐
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?	✖	☐	☐	☐
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))?	☐	☐	☐	✖
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	✖
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?	✖	☐	☐	☐

Discussion

a. According to Figure 8-2, Important Farmland, of the City of Livermore General Plan, SMP 38 is designated as "Prime Farmland," and the remainder of the project site (i.e., SMP 39, SMP 40, and the Additional Annexation Only Parcels) is designated as Grazing Land. In addition, the off-site trail connection options are all located within lands designated as "Urban and Built Up Land." The data shown in Figure 8-2 was sourced from the California Department of Conservation's Farmland Mapping and Monitoring Program (FMMP) in 2002. Since then, the FMMP has been updated, and SMP 38 is now designated as Prime Farmland, Grazing Land, and Other Land.[6] The remainder of the project site is still designated as Grazing Land. While a portion of SMP 38 is designated as Prime Farmland, development of SMP 38 is not proposed. Therefore, implementation of the proposed project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use, and a ***less-than-significant*** impact would occur.

b. The project site is not under a Williamson Act contract; however, the entirety of the project site is zoned for agricultural uses by Alameda County. Therefore, buildout of the proposed project could conflict with existing zoning for agricultural use, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Agricultural Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

c,d. The project site is not considered forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), and is not zoned Timberland Production (as defined by Government Code Section 51104[g]). Therefore, the proposed project would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

[6] California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/dlrp/ciff/. Accessed April 2022.

e. As stated above, according to the FMMP, SMP 38 is designated as Prime Farmland, Grazing Land, and Other Land, and the remainder of the project site is designated as Grazing Land. While the remainder of the project site is not considered Farmland pursuant to the FMMP, the proposed project would be subject to approval of the proposed Annexation and SOI Amendment by Alameda County LAFCo. The Alameda County LAFCo has specific policies related to agricultural land, including related to the loss of important agricultural, open space, or resource land and conversion of areas containing prime soils or productive agricultural operations to uses not conducive to agricultural production. While the project sites are not currently used for agricultural production, the SMP 39 and SMP 40 sites have historically involved agricultural uses. Thus, without further analysis, the project sites may be considered to meet Alameda County LAFCo definitions for important agricultural, open space, or resource land or contain prime soils. Accordingly, further analysis is required to determine whether the proposed project would comply with LAFCo's policies related to agriculture and open space. Therefore, the proposed project could involve other changes in the existing environment which, due to their location or nature, could result in conversion of farmland or other important agricultural land, to non-agricultural use, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Agricultural Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

III. AIR QUALITY. *Would the project:*	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?	✖	☐	☐	☐
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?	✖	☐	☐	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	✖	☐	☐	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	✖	☐	☐	☐

Discussion

a,b. The City of Livermore is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The SFBAAB area is currently designated as a nonattainment area for the State and federal ozone, State and federal fine particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State respirable particulate matter 10 microns in diameter (PM_{10}) ambient air quality standards (AAQS). The SFBAAB is designated attainment or unclassified for all other AAQS. It should be noted that on January 9, 2013, the U.S. Environmental Protection Agency (USEPA) issued a final rule to determine that the Bay Area has attained the 24-hour $PM_{2.5}$ federal AAQS. Nonetheless, the Bay Area must continue to be designated as nonattainment for the federal $PM_{2.5}$ AAQS until such time as the BAAQMD submits a redesignation request and a maintenance plan to the USEPA, and the USEPA approves the proposed redesignation. The USEPA has not yet approved a request for redesignation of the SFBAAB; therefore, the SFBAAB remains in nonattainment for 24-hour $PM_{2.5}$.

In compliance with regulations, due to the nonattainment designations of the area, the BAAQMD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS. Adopted BAAQMD thresholds of significance have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with applicable air quality plans. The BAAQMD's established significance thresholds associated with development projects for emissions of the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO_X), as well as for PM_{10} and $PM_{2.5}$, expressed in pounds per day (lbs/day) and tons per year (tons/yr), are listed in Table 3. By exceeding the BAAQMD's mass emission thresholds for ROG, NO_X, PM_{10}, or $PM_{2.5}$, a project would be considered to conflict with or obstruct implementation of the BAAQMD's air quality planning efforts.

During construction of the proposed project, including the off-site trail improvements, various types of equipment and vehicles would temporarily operate on the project site. Construction exhaust emissions would be generated from construction equipment, vegetation clearing and earth movement activities, construction worker commutes, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which include PM emissions. As construction of the proposed project would generate air pollutant emissions intermittently within the site, and the vicinity

of the site, until all construction has been completed, construction is a potential concern because the proposed project is in a non-attainment area for ozone and PM.

Table 3
BAAQMD Thresholds of Significance

Pollutant	Construction	Operational	
	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/year)
ROG	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
$PM_{2.5}$ (exhaust)	54	54	10

Source: BAAQMD, CEQA Guidelines, May 2017.

Furthermore, development of the proposed project would result in an increased number of vehicle trips associated with traffic to and from the project site. Operation of the proposed project would result in emissions associated with area sources such as equipment exhaust. The additional traffic and operations associated with the proposed project could result in increases in criteria pollutant emissions in the project vicinity above the thresholds established by the BAAQMD. Therefore, the proposed project could conflict with or obstruct implementation of the applicable air quality plan.

Construction and operational emissions associated with the proposed project, in combination with other past, present, and reasonably foreseeable projects within the project region could either delay attainment of the standards or require the adoption of additional controls on existing and future air pollution sources to offset emission increases. Thus, the project could 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. Based on the above, the proposed project could result in a ***potentially significant*** impact.

Further analysis of the above potential impacts will be discussed in the Air Quality, Greenhouse Gas Emissions, and Energy chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. Within the project vicinity, the nearest sensitive receptors include the single-family residences to the east of SMP 40 and the Additional Annexation Only Parcels, across Isabel Avenue, with the closest residence located approximately 450 feet to the east.

The major pollutants of concern are localized carbon monoxide (CO) emissions and toxic air contaminant (TAC) emissions. Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Emissions of CO are of potential concern, as the pollutant is a toxic gas that results from the incomplete

combustion of carbon-containing fuels such as gasoline or wood. Implementation of the proposed project could increase traffic volumes on streets near the project site. Thus, the proposed project could potentially increase local CO concentrations. Further analysis is required to determine whether the levels of service at area intersections would be substantially degraded as a result of the proposed project such that the concentrations of CO at the intersections would be considered a significant increase.

The California Air Resources Board's (CARB's) *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, gas dispensing facilities, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. CARB considers distribution centers to be significant sources of DPM due to the high volume of heavy-duty diesel vehicles used in the distribution of goods. As defined by CARB, distribution centers are facilities that serve as a distribution point for the transfer of goods. Such facilities include cold storage warehouses, goods transfer facilities, and inter-modal facilities, such as ports, that attract an excess of 100 heavy-duty trucks per day. The proposed project is anticipated to generate more than 100 heavy-duty trucks per day. In addition, the proposed project's short-term, construction-related activities would result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. Therefore, further analysis is required to determine whether the proposed project could result in substantial concentrations of TAC emissions.

Because the proposed project could cause an increase in the localized CO concentrations at area intersections and result in TAC emissions, the proposed project could expose existing sensitive receptors to substantial pollutant concentrations. Accordingly, impacts related to exposure of sensitive receptors to substantial pollutant concentrations could be ***potentially significant***.

Further analysis of the above potential impact will be discussed in the Air Quality, Greenhouse Gas Emissions, and Energy chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

d. Emissions of concern include those leading to odors, emission of dust, or emissions considered to constitute air pollutants. As discussed above, emissions of air pollutants generated by the proposed project could be potentially significant. In addition, construction activities often include diesel-fueled equipment and heavy-duty trucks, which could create odors associated with diesel fumes that may be considered objectionable. Furthermore, construction of the proposed project has the potential to result in substantial emissions of dust. Therefore, the proposed project could result in emissions of concern (such as those leading to odors, emission of dust, or emissions considered to constitute air pollutants) adversely affecting a substantial number of people, and a ***potentially significant*** impact would result.

Further analysis of the above potential impact will be discussed in the Air Quality, Greenhouse Gas Emissions, and Energy chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

IV. BIOLOGICAL RESOURCES. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	✖	☐	☐	☐
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?	✖	☐	☐	☐
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?	✖	☐	☐	☐
d. Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	✖	☐	☐	☐
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	✖	☐	☐	☐
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan?	✖	☐	☐	☐

Discussion

a,f. The project site is within the boundaries of the East Alameda County Conservation Strategy (EACCS), a guidance document for regional conservation and environmental permitting for private and public development projects. Therefore, the proposed project, including the off-site trail improvements, would be subject to the EACCS requirements, which are intended to provide protection and mitigation for covered species. Covered species include the following 13 wildlife species: longhorn fairy shrimp; vernal pool fairy shrimp; callippe silverspot butterfly; California tiger salamander; California red-legged frog; foothill yellow-legged frog; Alameda whipsnake; Central California coastal steelhead; golden eagle; tricolored blackbird; western burrowing owl; American badger; and San Joaquin kit fox. The EACCS also includes the following six covered plant species: San Joaquin spearscale; big tarplant; Congdon's tarplant; palmate-bracted bird's-beak; Livermore Valley tarplant; and recurved larkspur.

Because the majority of the project site is currently undeveloped, special-status plant and wildlife species have the potential to occur within the site. In addition, existing trees within the project area, including the off-site trail improvement areas, could provide suitable habitat for nesting and migratory birds protected by the Migratory Bird Treaty Act and California Fish and Game Code. Ground-disturbing activities and/or tree removal associated with the proposed project, and the construction of the off-site trail improvements, as well as brush clearing, could result in adverse effects to special-status species or other nesting and migratory birds if such species are present within or near the disturbance area. Therefore, the proposed project could have a substantial adverse effect, either directly or through habitat modifications, on species identified as candidate,

sensitive, or special-status species in local or regional plans, policies or regulations, or by the California Department of Fish & Wildlife (CDFW), U.S. Fish & Wildlife Service (USFWS). In addition, the potential exists for the proposed project to conflict with applicable standards within the EACCS, if the proposed project would result in impacts to special-status species that are also covered under the EACCS. Accordingly, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be discussed in the Biological Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

b,c. Arroyo Mocho is a 34.7-mile-long stream that originates in the far northeastern corner of Santa Clara County and flows northwesterly into eastern Alameda County. Arroyo Mocho flows west to east along the southeastern boundary of SMP 38, as well as the southern boundary of SMP 40, and within the vicinity of the proposed off-site trail improvements, specifically Trail Connection Option 2. Therefore, given the proximity of Arroyo Mocho to the project site, the proposed project could have a substantial adverse effect on riparian habitat, sensitive natural communities, or federally protected wetlands, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be discussed in the Biological Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

d. Wildlife corridors link areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. The fragmentation of open space areas by urbanization creates isolated "islands" of wildlife habitat. Fragmentation can also occur when a portion of one or more habitats is converted into another habitat, such as when woodland or scrub habitat is altered or converted into grasslands after a disturbance such as fire, mudslide, or grading activities. Wildlife corridors mitigate the effects of this fragmentation by: (1) allowing animals to move between remaining habitats, thereby permitting depleted populations to be replenished and promoting genetic exchange; (2) providing escape routes from fire, predators, and human disturbances, thus reducing the risk of catastrophic events (such as fire or disease) on population or local species extinction; and (3) serving as travel routes for individual animals as they move within their home ranges in search of food, water, mates, and other needs.

The undeveloped grassland on which the project site is located could be considered part of a wildlife migration corridor. In addition, as discussed above, Arroyo Mocho, as well as the ponds located to the south and west of the site, could provide potential habitat to be used as a wildlife migration corridor within the vicinity of the site. Therefore, further analysis is required to ensure that the proposed project, including the proposed off-site trail improvements, would not interfere substantially with the movement of any native resident or migratory wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. A ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be discussed in the Biological Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

e. Chapter 12.20 of the City's Municipal Code comprises the City's Tree Preservation Ordinance. Pursuant to Section 12.20.190, removal or encroachment into the protected zone of any "protected trees" on public or private property within the City requires issuance of a tree permit from the City pursuant to the provisions of the Ordinance. Protected trees

are defined in Section 12.20.160(M) of the Municipal Code as a single-trunked tree, a multi-trunked tree, or a stand of trees dependent upon each other for survival that meets any one or more of the following criteria:

1. Any tree located on private property occupied by single-family residential development that meets the following criteria:
    a. Any tree with a circumference at breast height (CBH) of 60 inches or more; or
    b. Any California native tree having a circumference (CBH) of 24 inches or more;
2. Any tree located on private property occupied by commercial, industrial, institutional (i.e., religious, public agency, hospital, care facilities, etc.), mixed-use or multifamily residential (two or more units) development with a circumference (CBH) of 24 inches or more; or
3. Any tree located on an undeveloped or underdeveloped property, regardless of zoning district, use, or development status, for which new development is proposed, with a circumference (CBH) of 18 inches or more; or
4. Any tree located in an open space, riparian, or habitat area with a circumference (CBH) of 18 inches or more; or
5. Any tree approved as part of a site plan approval, or required as a condition of approval for a development project, zoning use permit, use permit or other site development review; or
6. Any tree designated by the City Council as determined to be an ancestral tree; and/or
7. Any tree listed on the City's ancestral tree inventory; or
8. Any tree required to be planted as mitigation for unlawfully removed trees.

In addition, Section 12.20 contains further regulations related to the definition, planting, protection, removal, and pruning of street trees within the City. As noted in Section 12.20.020 of the City's Municipal Code, all street trees within the City are considered property of the City, and the Director of Public Works or designee thereof retains exclusive authority and responsibility to plant, remove, prune, inspect, maintain, root-prune, or otherwise alter street trees.

The proposed project could require the removal of on-site trees during the development of the project. If any tree proposed for removal meets the definition of a Protected Tree set forth in Chapter 12.20 of the City's Municipal Code, a permit would be required by the City of Livermore to remove or encroach into the dripline of the protected tree. In addition, existing trees retained on sites are often subject to extensive injury during construction or are inadequately maintained, and generally can become a liability rather than an asset. The response of individual trees depends on the amount of excavation and grading, care with which demolition is undertaken, and construction methods. As such, without adequate protection measures for any Protected Trees proposed to be retained on site, the proposed project could result in injury to the Protected Tree.

Therefore, the proposed project could conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be discussed in the Biological Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

V. CULTURAL RESOURCES. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	✖	☐	☐	☐
b. Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 15064.5?	✖	☐	☐	☐
c. Disturb any human remains, including those interred outside of dedicated cemeteries.	✖	☐	☐	☐

Discussion

a-c. Historical resources are features that are associated with the lives of historically-important persons and/or historically-significant events, that embody the distinctive characteristics of a type, period, region or method of construction, or that have yielded, or may be likely to yield, information important to the pre-history or history of the local area, California, or the nation. Examples of typical historical resources include, but are not limited to, buildings, farmsteads, rail lines, bridges, and trash scatters containing objects such as colored glass and ceramics.

According to the City's General Plan EIR, the City of Livermore Planning Area contains 405 cultural resources.[7] In addition, Arroyo Mocho is located to the south of the project site, and given that native peoples typically lived and travelled along waterways, archaeological resources associated with Arroyo Mocho could be located within the project vicinity. The project site and off-site trail improvement option areas have not been formally evaluated for the presence/absence of historic or archaeological resources, nor have the areas been evaluated for the presence/absence of human remains. Consequently, the presence or absence of such resources at the project site and off-site improvement areas is currently unknown, and the possibility exists that such resources could occur.

Considering that unknown historical/archaeological resources, including human remains, have the potential to exist on-site or in the off-site trail improvement areas, ground-disturbing activity related to the proposed construction activities could encounter such resources. Therefore, the proposed project could cause a substantial adverse change in the significance of historical or archaeological resources, including human remains, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impacts will be discussed in the Cultural and Tribal Cultural Resources chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

[7] City of Livermore. *Livermore General Plan and Downtown Specific Plan EIR, SCH No. #2003032038* [pg. 173]. 2003.

VI. ENERGY. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	✖	☐	☐	☐
b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	✖	☐	☐	☐

Discussion

a,b. The main forms of available energy supply are electricity, natural gas, and oil. Energy would be used to construct the proposed project, and once constructed, energy would be used for the lifetime of the proposed project.

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the sites where energy supply cannot be met via a hookup to the existing electricity grid.

Following implementation of the proposed project, PG&E would provide electricity to the project site. Energy use associated with operation of the proposed project would be typical of industrial uses, requiring electricity for interior and exterior building lighting, heating, ventilation, and air conditioning (HVAC), electronic equipment, machinery, appliances, security systems, and more. Maintenance activities during operations, such as landscape maintenance, could involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed project would result in transportation energy use associated with employee vehicle trips generated by the proposed project.

Due to the proposed project's anticipated use of energy during construction and operations, the proposed project has the potential to result in a significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation, as well as conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Thus, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be discussed in the Air Quality, Greenhouse Gas Emissions, and Energy chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

VII. GEOLOGY AND SOILS. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	✖	☐
ii. Strong seismic ground shaking?	☐	☐	✖	☐
iii. Seismic-related ground failure, including liquefaction?	☐	✖	☐	☐
iv. Landslides?	☐	✖	☐	☐
b. Result in substantial soil erosion or the loss of topsoil?	✖	☐	☐	☐
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	✖	☐	☐
d. Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	✖	☐	☐
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?	☐	☐	☐	✖
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	✖	☐	☐

Discussion

The following discussion is based primarily on a Geotechnical Investigation prepared by Cornerstone Earth Group for the project site (Appendix A).[8] It should be noted that development of SMP 38 or the Additional Annexation Only Parcels is not proposed and, thus, impacts related to geology and soils associated with the aforementioned sites would not occur. The following discussion is focused on the geological conditions associated with SMP 39 and SMP 40.

ai-aii. The project site or off-site trail improvement areas are not located within the boundaries of an Earthquake Fault Zone, as designated pursuant to the Alquist-Priolo Earthquake Fault Zoning Act.[9] In addition, known surface expression of fault traces is not shown to cross the sites. Therefore, fault surface rupture hazard is not a significant geologic hazard at the sites or immediately surrounding area. However, several significant faults, including the Calaveras Fault, the Greenville Fault, and the Hayward Fault, are located within 15 miles of the project site. Peak ground acceleration (PGA) can be calculated to determine the maximum ground acceleration (g) that occurs during earthquake shaking at a specific location. The PGA for the project site is 0.629g, which is considered very high. A 0.001g PGA is perceptible by humans, a 0.02g PGA is the level that people lose their balance, and at a 0.50g PGA, well designed buildings can survive if the duration is short.

[8] Cornerstone Earth Group. *Geotechnical Investigation – Oaks Business Park and Jack London Boulevard (SMP 39 and SMP 40)*. November 23, 2021.

[9] California Geological Survey. *Earthquake Zones of Required Investigation.* Available at: https://maps.conservation.ca.gov/cgs/eqzapp/app/. Accessed April 2022.

Based on the proximity of the project site to local and regional faulting, as well as historical seismic activity within the Bay Area, the project site and vicinity is considered subject to relatively high ground shaking risks and related effects. However, the California Building Standards Code (CBSC) provides minimum standards to ensure that the proposed structures would be designed using sound engineering practices and appropriate engineering standards for the seismic area in which the project site is located. Projects designed in accordance with the CBSC should be able to: 1) resist minor earthquakes without damage; 2) resist moderate earthquakes without structural damage, but with some non-structural damage; and 3) resist major earthquakes without collapse, but with some structural, as well as non-structural, damage. Although conformance with the CBSC does not guarantee that substantial structural damage would not occur in the event of a maximum magnitude earthquake, conformance with the CBSC can reasonably be assumed to ensure that the proposed structures would be survivable, allowing occupants to safely evacuate in the event of a major earthquake.

Conformance with the design standards is enforced through building plan review and approval by the City of Livermore Building Division prior to the issuance of building permits. Proper engineering of the proposed project would ensure that seismic-related effects would not cause adverse impacts. Therefore, a ***less-than-significant*** impact would occur related to seismic rupture of a known earthquake fault or strong seismic ground shaking.

aiii,aiv, c,d. Below the existing ground surface of SMP 39, soils encountered generally included approximately 1.5 to two feet of undocumented fill consisting of hard sandy lean clay and loose to medium dense sands with varying amounts of silt and clay. Beneath the undocumented fills, borings generally encountered interbedded layers of very stiff to hard lean clay with varying amounts of sands, silt, and clay to depths of about 14.5 to 36 feet, underlain by medium dense to dense sands and poorly graded gravel with varying amounts of silt to the terminal boring depths of about 29.5 to 45 feet below existing grades.

Similar to SMP 39, soils encountered below the existing ground surface of SMP 40 generally included approximately 1.5 to two feet of undocumented fill consisting of hard sandy lean clay and loose to medium dense sands with varying amounts of silt and clay. Beneath the undocumented fills, borings generally encountered interbedded layers of stiff to hard lean clay with varying amounts of sand, loose to dense sands with varying amounts of silts and clays, and medium dense to very dense poorly graded gravel with silt and sand to the terminal boring depths of about 29 to 45 feet below existing grades.

The potential effects related to liquefaction, landslides, lateral spreading, subsidence/settlement, and expansive soils related to development of SMP 39 and SMP 40, as well as the off-site trail connections, are discussed in detail below.

Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, especially as a result of cyclic loadings induced by earthquakes or ground shaking. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded fine sands. According to the Geotechnical Investigation, the project site is partially within a State-designated Liquefaction Hazard Zone. As such, the Geotechnical Investigation included various tests and sampling of potentially liquefiable on-site soil layers to depths of at least 50 feet to further classify soil properties. Based on the results of the on-site soil tests and sampling, the Geotechnical Investigation concluded that several layers of on-site soils could

potentially experience liquification triggering that could result in post-liquefaction total settlement at the ground surface on the order of a quarter inch or less over a horizontal distance of 50 to 60 feet. For ground deformation to occur, the pore water pressure within the liquefiable soil layer would need to be great enough to break through the overlying non-liquefiable layer; however, a minimum layer of 35-foot-thick non-liquefiable cap is present across SMP 39 and SMP 40, which is sufficient to prevent ground deformation and significant surficial cracking. Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death associated with seismic-related ground failure, including liquefaction.

Landslides

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. According to the Geotechnical Investigation, SMP 39 and SMP 40 appear to slope gradually from east to west with elevations ranging from approximately 398 feet in the east to 371 feet in the west on SMP 39, and elevations ranging from 420 feet in the east to 402 feet in the west on SMP 40. Both sites appear to be relatively level from north to south. The California Geologic Survey (CGS) maps a small area along the southern edge of SMP 39 as being within an Earthquake-Induced Landslide Zone. However, said area falls outside of the proposed building development area. Therefore, the Geotechnical Investigation concluded that the potential for earthquake-induced landslides to affect the proposed buildings is low. As such, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides.

Lateral Spreading

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. The amount of movement depends on the soil strength, duration and intensity of seismic shaking, topography, and free face geometry. Given that the project site does not contain any free faces, and liquefaction is not expected to occur on-site, the potential for lateral spreading to pose a risk to the proposed development is negligible.

Subsidence

When subsurface earth materials move, the movement can cause the gradual settling or sudden sinking of ground. The phenomenon of settling or sinking ground is referred to as subsidence, or settlement. The soils encountered at the site were predominantly very stiff to hard clays and medium dense to very dense sands. Therefore, the potential for significant differential seismic settlement affecting the proposed project is low.

Expansive Soils

Expansive soils are soils which undergo significant volume change with changes in moisture content. Specifically, such soils shrink and harden when dried and expand and soften when wetted, potentially resulting in damage to building foundations. As part of the Geotechnical Investigation, soil samples from the project site were analyzed to determine the plasticity index (PI) of the soils. The results of the surficial PI test resulted in a PI of nine, indicating low expansion potential to wetting and drying cycles. Therefore, the potential for expansive soils to affect the proposed project is low.

Undocumented Fill

Approximately 1.5 to 2 feet of undocumented fill was identified within both SMP 39 and SMP 40. Because the soil conditions of the fill are not known, the possibility cannot be ruled out for the undocumented fill to become unstable as a result of the proposed project, and directly or indirectly cause potential substantial adverse effects due to geologic and soil conditions. As such, implementation of the recommendations included in the Geotechnical Investigation would be required in order to ensure impacts associated with the undocumented fill do not occur. Such recommendations include, but are not limited to, the removal and replacement of existing fill with engineered fill, over-excavation, and re-compaction.

Off-Site Trail Connection Options

The proposed project would include one of the following off-site trail connections:

- Trail Connection Option 1 – At Grade Crossing at Discovery Drive;
- Trail Connection Option 2 – Undercrossing at Isabel Bridge; or
- Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84.

Trail Connection Option 1 would include the construction of a new at-grade pedestrian crossing across the existing Isabel Avenue/SR 84. Therefore, given that Trail Connection Option 1 would be built within existing roadways or infrastructure, and would not involve the construction of any new structures, Trail Connection Option 1 would not have the potential to result in effects related to liquefaction, landslides, lateral spreading, subsidence/settlement, and expansive soils. However, Trail Connection Option 2 would connect to a grade-separated undercrossing of Isabel Avenue/SR 84 at the existing Isabel Bridge, and Trail Connection Option 3 would include the construction of a new above-grade crossing over Isabel Avenue/SR 84. The trail undercrossing is anticipated to be constructed above the OHWM of the Arroyo Mocho, would be approximately 14 feet wide, and provide a minimum of seven feet of clearance under the bridge. An existing PG&E 20-inch gas main located west of the bridge may require relocation under off-site trail connection Option 2. The trail overcrossing is anticipated to be an approximately 170-foot bike/pedestrian metal fabricated clear span bridge that would run parallel to the existing bridge for the railroad tracks. Because a final off-site trail connection has not yet been decided, a geotechnical engineering report has not been prepared for the trail undercrossing associated with Trail Connection Option 2, or the above-grade crossing associated with Trail Connection Option 3. Therefore, in the event that either Trail Connection Option 2 or Trail Connection Option 3 is the selected option, the potential exists for the new crossings to create substantial direct or indirect risks to life or property due to geologic and soil conditions.

Conclusion

Based on the above discussion, development of SMP 39 and SMP 40 would not result in potential hazards or risks related to liquefaction, landslides, or lateral spreading, subsidence, or expansive soils. However, the undocumented fill identified within both SMP 39 and SMP 40 has the potential to directly or indirectly cause potential substantial adverse effects due to geologic and soil conditions. In addition, given that a geotechnical engineering report has not been prepared for the trail crossings associated with Trail Connection Options 2 and 3, in the event that either Trail Connection Option 2 or Trail Connection Option 3 is the selected option, the potential exists for the new crossings to create substantial direct or indirect risks to life or property related to liquefaction,

landslides, lateral spreading, subsidence/settlement, and expansive soils. Therefore, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impacts to a *less-than-significant* level.

VII-1. *All grading and foundation plans for the proposed project shall be designed by a Civil and Structural Engineer and reviewed and approved by the City Engineer, Chief Building Official, and a qualified Geotechnical Engineer prior to issuance of building permits or grading permits, whichever comes first, to ensure that all geotechnical recommendations specified in the Geotechnical Investigation prepared for the proposed project by Cornerstone Earth Group are properly incorporated and utilized in the project design.*

VII-2. *In the event that Trail Connection Option 2 – Undercrossing at Isabel Bridge or Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84 is the selected Trail Connection Option for the proposed project, in conjunction with the submittal of improvement plans associated with the proposed above-grade crossing, a final design-level geotechnical report shall be prepared and submitted to the City for review and approval. The site-specific geotechnical report shall be prepared by a State-registered civil engineer with the purpose of observing and sampling the subsurface conditions encountered at the proposed undercrossing or above-grade crossing sites and providing conclusions and recommendations relative to each crossing, as proposed. The recommendations presented therein shall be based on analysis of the data obtained during the geotechnical investigation and the local experience of the civil engineer regarding similar soil and geologic conditions. All recommendations set forth in the final design-level geotechnical report shall be appropriately incorporated into the design of the project and shall be subject to review and approval by the City Engineer.*

b. Issues related to erosion and degradation of water quality during construction are further discussed in Section X, Hydrology and Water Quality, of this Initial Study. As discussed therein, during grading activities associated with development of the proposed project, soil may be temporarily exposed. Thus, the potential exists for wind and water to erode portions of the soil on-site, resulting in the loss of topsoil, and sedimentation of downstream waterways, including Arroyo Mocho. Impacts related to substantial soil erosion or the loss of topsoil during construction of the proposed project could be ***potentially significant***.

Further analysis of the above impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

e. The proposed project would connect to the existing City sewer lines in the project vicinity. Thus, the construction or operation of septic tanks or other alternative wastewater disposal systems is not included as part of the proposed project, and ***no impact*** would occur regarding the capability of soil to adequately support the use of septic tanks or alternative wastewater disposal systems.

f. The City's General Plan indicates that several Pleistocene-aged paleontological fossils have been discovered within the City's Planning Area, including several Pleistocene vertebrate fossil localities, within the foothills of north and northeast Livermore, and the pits of west Livermore. In particular, the most recent fossil discovery within the City occurred in the vicinity of the Lawrence Livermore National Laboratory, which is approximately 1.4 miles south of the project site.

As noted in the City's General Plan, the City is underlain by alluvium, which consists mainly of unconsolidated gravel, sand, silt, and clay deposits. Such soil types are not considered unique geologic features and are common within the geographic area of the City. Furthermore, the City's General Plan does not note the existence of any unique geologic features within the City. Consequently, implementation of the proposed project, including the off-site trail improvements, would not be anticipated to have the potential to result in direct or indirect destruction of unique geologic features.

Although the proposed project would not have the potential to result in the destruction of unique geologic features, paleontological resources could exist within the project site or the off-site trail improvement areas. Should previously unknown paleontological resources exist within such areas, ground-disturbing activity, such as grading, trenching or excavating, associated with implementation of the proposed project would have the potential to disturb or destroy such features. Consequently, the proposed project could result in the direct or indirect destruction of a unique paleontological resource and a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

VII-3. *The applicant shall retain the services of a professional paleontologist to educate the construction crew that will be conducting grading and excavation at the project site, as well as the off-site trail improvement areas. The education shall consist of an introduction to the geology of the project site and the kinds of fossils that may be encountered, as well as what to do in case of a discovery. Should any vertebrate fossils (e.g., teeth, bones), an unusually large or dense accumulation of intact invertebrates, or well-preserved plant material (e.g., leaves) be unearthed by the construction crew, then ground-disturbing activity shall be diverted to another part of the project site and the paleontologist shall be called on-site to assess the find and, if significant, recover the find in a timely matter. Finds determined significant by the paleontologist shall then be conserved and deposited with a recognized repository, such as the University of California Museum of Paleontology. The alternative mitigation would be to leave the significant finds in place, determine the extent of significant deposit, and avoid further disturbance of the significant deposit. Proof of the construction crew awareness training shall be submitted to the City's Community Development Department in the form of a copy of training materials and the completed training attendance roster.*

VIII. GREENHOUSE GAS EMISSIONS. *Would the project:*	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	✖	☐	☐	☐
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	✖	☐	☐	☐

Discussion

a,b. Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Recognizing the global scale of climate change, California has enacted several pieces of legislation in an attempt to address GHG emissions. Specifically, AB 32 and Senate Bill (SB) 32 have established statewide GHG emissions reduction targets. Accordingly, the California Air Resources Board (CARB) has prepared the Climate Change Scoping Plan for California (Scoping Plan), which was updated in 2017. The Scoping Plan provides the outline for actions to reduce California's GHG emissions and achieve the emissions reductions targets required by AB 32 and SB 32. In concert with statewide efforts to reduce GHG emissions, air districts, counties, and local jurisdictions throughout the State have implemented their own policies and plans to achieve emissions reductions in line with the Scoping Plan and emissions reductions targets, including AB 32 and SB 32.

In addition, in 2012, the City of Livermore approved a Climate Action Plan (CAP), and recently adopted an update to the CAP on November 28, 2022. The CAP includes emissions reduction targets for the City, as well as reduction measures. The updated CAP creates a roadmap for the City to achieve carbon neutrality (also known as net zero carbon emissions) by 2045. The proposed project would be required to ensure consistency with the applicable reduction measures included in the City's CAP.

Estimated GHG emissions attributable to future project development would be primarily associated with increases of carbon dioxide (CO_2) and, to a lesser extent, other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O) associated with area sources, mobile sources or vehicles, utilities (electricity), water usage, wastewater generation, and the generation of solid waste. Buildout of the proposed project would contribute to increases of GHG emissions that are associated with global climate change during construction and operations. As such, the proposed project would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with applicable plans, policies, and regulations for the purpose of reducing the emissions of GHGs. Therefore, impacts related to GHG emissions and global climate change could be cumulatively considerable and considered ***potentially significant***.

Further analysis of the above potential impacts will be discussed in the Air Quality, Greenhouse Gas Emissions, and Energy chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

IX. HAZARDS AND HAZARDOUS MATERIALS. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	✖	☐
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	☐	✖	☐	☐
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	✖
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?	☐	☐	✖	☐
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 or excessive noise for people residing or working in the project area?	☐	☐	✖	☐
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	✖	☐
g. Expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires?	☐	☐	✖	☐

Discussion

a. Although the proposed structures are intended for use as light industrial uses, including industrial warehouses on SMP 40, specific tenants have not been identified at this time. Operations associated with the proposed project would be typical of other industrial uses in the City, and would be governed by the uses permitted for the site pursuant to the City's Planned Development zoning district and General Plan. Given that the proposed project includes a General Plan Amendment and Prezone, following implementation of the proposed project, the project site would be zoned Planned Development Industrial (PD-I) and designated Low Intensity Industrial (LII) by the City's General Plan. Typical Light Industrial uses allowed within the PD-I zone and LII designation include, but are not limited to, professional and administrative facilities, research institutions, warehouse uses, manufacturing operations, and green technology facilities.

It should be noted that the use and storage of hazardous materials is regulated by Section 6.02.040 of the City's Development Code. Section 6.02.040 establishes regulations related to the types and quantities of hazardous materials that may be stored or used within the City. Based on the allowances within Section 6.02.040, should operation of the proposed project require the use or storage of hazardous materials in excess of the accepted limits, a formal request must be made to the City, including a declaration of information regarding the type and quantities of hazardous materials to be used or stored within the project site. Such requests would be considered by the Livermore-Pleasanton Fire Department (LPFD) and the City's Planning Division.

While not currently anticipated, in the event that future operations associated with the proposed uses involve the routine use, transport, or disposal of hazardous materials, such

materials would be safely managed in accordance with the applicable regulations and would be subject to LPFD and City review depending on the type or quantity of chemicals proposed for use. Therefore, the proposed project would not create a significant hazard to the public or the environment related to the routine transport, use, or disposal of hazardous materials, and a ***less-than-significant*** impact would occur.

b. The following discussion provides an analysis of potential hazards and hazardous materials associated with upset or accident conditions related to the proposed construction activities and existing on-site conditions.

Construction Activities

Construction activities associated with the proposed project, including the off-site trail improvements, would involve the use of heavy equipment, which would contain fuels and oils, and various other products such as concrete, paints, and adhesives. Small quantities of potentially toxic substances (e.g., petroleum and other chemicals used to operate and maintain construction equipment) would be used at the project site or off-site trail improvement areas and transported to and from the site during construction. However, the project contractor would be required to comply with all California Health and Safety Codes and local City ordinances regulating the handling, storage, and transportation of hazardous and toxic materials. Thus, construction of the proposed project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment.

Existing On-Site Hazardous Materials

As noted previously, development of SMP 38 and the Additional Annexation Only Parcels is not proposed and, thus, impacts related to hazards and hazardous materials associated with the aforementioned sites would not occur. Phase I Environmental Site Assessments (ESAs) were prepared for SMP 39 and SMP 40 by Ardent Environmental Group for the purpose of identifying potential recognized environmental conditions (RECs) associated with the project site (see Appendix C).[10,11] The Phase I ESAs included a survey of each site and a review of historical documentation, aerial photography, regulatory agency files, and environmental site radius reports. Historical sources reviewed as part of the Phase I ESAs indicate that both SMP 39 and SMP 40 have been vacant or used for agricultural purposes since 1906, with the most recent agricultural uses occurring on both SMP 39 and SMP 40 prior to 2006.

Pursuant to the Phase I ESAs, features such as stressed vegetation, septic systems, above-ground storage tanks, underground storage tanks, asbestos containing materials, and lead based paint were not identified on the sites. As such, the Phase I ESAs concluded that evidence or indication of RECs or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to SMP 39 and SMP 40 has not been revealed.

It should be noted that, while not considered an environmental concern, one agricultural or production groundwater well was observed along the western boundary of SMP 39. Due to the well's close proximity to the site boundary, Ardent was unable to determine if

[10] Ardent Environmental Group. *Phase I Environmental Site Assessment: Jack London Boulevard Property – SMP 39 Alameda County, California.* October 20, 2021.

[11] Ardent Environmental Group. *Phase I Environmental Site Assessment: Oaks Business Park Northwest of Stanley Boulevard and Isabel Avenue Alameda County, California.* October 20, 2021.

the feature is located on-site, or immediately off-site. Therefore, the Phase I ESA recommends that the groundwater well located along the western boundary of the site be surveyed to determine if the feature is, in fact, located on-site. If the well is determined to be on-site, and is not planned to be used following development of SMP 39, Ardent recommends the well be abandoned in accordance with current regulatory guidelines.

Off-Site Trail Connection Options

As discussed above, the proposed project would include one of three off-site trail connections. Trail Connection Option 1 would include a new at-grade pedestrian crossing of Isabel Avenue/SR 84 at the existing intersection with Discovery Drive. Therefore, given that Trail Connection Option 1 would be built within existing roadways or infrastructure, and substantial ground disturbance would not occur, Trail Connection Option 1 would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment.

Trail Connection Option 2 would connect to a grade-separated undercrossing of Isabel Avenue/SR 84 at the existing Isabel Bridge, and Trail Connection Option 3 would include the construction of a new above-grade crossing over Isabel Avenue/SR 84. The trail undercrossing is anticipated to be constructed above the OHWM of the Arroyo Mocho, would be approximately 14 feet wide, and provide a minimum of seven feet of clearance under the bridge. An existing PG&E 20-inch gas main located west of the bridge may require relocation under off-site trail connection Option 2. The trail overcrossing is anticipated to be an approximately 170-foot bike/pedestrian metal fabricated clear span bridge that would run parallel to the existing bridge for the railroad tracks. Both Trail Connection Option 2 and Trail Connection Option 3 would involve ground disturbing activities, which could create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment, if hazardous materials are present within the sites. Because a final off-site trail connection has not yet been decided, a Phase I ESA has not been prepared for the trail undercrossing associated with Trail Connection Option 2, or the above-grade crossing associated with Trail Connection Option 3. Therefore, in the event that either Trail Connection Option 2 or Trail Connection Option 3 is the selected option, the potential exists for the new crossing to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment.

Conclusion

Based on the above, the project site is not subject to existing on-site hazards and the proposed project, including the off-site trail improvements, would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment. However, if the groundwater well observed along the western boundary of SMP 39 is located on-site and not abandoned in accordance with current regulatory guidelines, a ***potentially significant*** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

IX-1. Prior to any ground-disturbing activities, the groundwater well observed along the western boundary of SMP 39 shall be assessed to determine whether it is located on-site. If the well is determined to be located on-site, the project applicant shall hire a licensed contractor to obtain the applicable abandonment permit from Alameda County Department of Environmental Health (ACDEH), and properly abandon the on-site well for review and approval by the ACDEH.

IX-2. In the event that Trail Connection Option 2 – Undercrossing at Isabel Bridge or Trail Connection Option 3 – Overcrossing of Isabel Avenue/SR 84 is the selected Trail Connection Option for the proposed project, in conjunction with the submittal of improvement plans associated with the proposed above-grade crossing, a Phase I Environmental Site Assessment (ESA) shall be prepared and submitted to the City for review and approval. The Phase I Environmental Site Assessment (ESA) shall be prepared by a licensed contractor with the purpose of observing and assessing the conditions encountered at the proposed undercrossing or above-grade crossing sites and providing conclusions and recommendations relative to any hazardous conditions or materials identified on-site. All recommendations set forth in the Phase I Environmental Site Assessment (ESA) shall be appropriately incorporated into the project and shall be subject to review and approval by the City of Livermore Community Development Department.

c. Schools are not located within one-quarter mile of the project site. The nearest school is the Livermore Valley Academy, located approximately 0.65-mile east of SMP 40. Therefore, the proposed project would result in ***no impact*** related to hazardous emissions or the handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

d. The California Environmental Protection Agency (Cal EPA) has compiled a list of data resources that provide information regarding the facilities or sites identified as meeting the "Cortese List" requirements, pursuant to Government Code 65962.5. The components of the Cortese List include the Department of Toxic Substances Control (DTSC) Hazardous Waste and Substances Site List,[12] the list of leaking underground storage tank (UST) sites from the State Water Resources Control Board (SWRCB's) GeoTracker database,[13] the list of solid waste disposal sites identified by the SWRCB, and the list of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the SWRCB.[14] The project site and off-site trail improvement areas are not included on the DTSC Hazardous Waste and Substances Site List. In addition, the project site and off-site trail improvement areas are not listed on the SWRCB's list of solid waste disposal sites, list of leaking UST sites, or list of active CDO and CAO. Therefore, the proposed project would not create a significant hazard to the public or the environment related to being located on a site which is included on a list of hazardous materials compiled pursuant to Government Code Section 65962.5, and a ***less-than-significant*** impact would occur.

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12 Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese).* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed April 2022.

13 State Water Resources Control Board. *GeoTracker.* Available at: https://geotracker.waterboards.ca.gov/map/?myaddress=California&from=header&cqid=8858350455. Accessed April 2022.

14 CalEPA. *Cortese List Data Resources*. Available at: https://calepa.ca.gov/sitecleanup/corteselist/. Accessed April 2022.

e. The nearest airport to the project site is the Livermore Municipal Airport, located approximately 100 feet north of SMP 38 and SMP 39. Given the proximity of Livermore Municipal Airport, all of the sites are included within the Airport's Land Use Compatibility Plan (ALUCP). SMP 38 and 39 are located within the Airport Protection Area boundaries, and the entire project site is located within the Airport Influence Area boundaries.[15] Given that the project site is located within an airport land use plan, the proposed project has the potential to expose people residing or working in the project area to a safety hazard or excessive noise associated with such. Impacts related to the exposure of people to excessive noise are discussed in Section XIII, Noise, of this Initial Study. As discussed therein, further analysis will be included in the Noise chapter of the SMP 38/SMP 39/SMP 40 Project EIR. Therefore, the following discussion is focused on whether the proposed project would result in the potential to expose people residing or working in the project area to a safety hazard related to the Livermore Municipal Airport.

The ALUCP has developed land use safety compatibility criteria to minimize the risks to people and property on the ground, as well as people in an aircraft in the event of an accident or emergency landing occurring outside the airport boundary. As such, a total of seven different safety zones are identified within the ALUCP based on runway length and flight patterns, and incompatible, conditional, and permitted uses were identified for each zone. As shown on Figure 3-3 of the ALUCP, the large majority of the project site, including the majority of SMP 39, the entirety of SMP 40, the Annexation Only Parcels, and the off-site trail improvement areas, is located within Zone 6. According to Table 3-2 of the ALUCP, warehouse, manufacturing, research and development, and industrial land uses are permitted uses within Zone 6.

A small portion of the northwest corner of SMP 39 is located within Zone 3, and portions of SMP 38 are located within Zone 2 and Zone 3. According to Table 3-2 of the ALUCP, Zones 2 and 3 have more stringent regulations regarding the land uses allowed within the zones. However, the area of SMP 39 located within Zone 3 is outside of the proposed development area (see Figure 15), and development within SMP 38 is not proposed as part of the project. Furthermore, while the proposed structures are intended for use as industrial uses, specific tenants have not been identified at this time. Therefore, future tenants of the proposed industrial uses would be required to comply with the criteria included within the ALUCP, such as avoiding uses that could create hazards to flights, prohibiting critical infrastructure facilities, and allowing for avigation easement dedication.

Based on the above, the proposed project would not result in a safety hazard for people working in the project area, and a ***less-than-significant*** impact would occur.

f. The City of Livermore adopted the City of Livermore Emergency Operations Plan in January 2018.[16] The plan provides a basis for future responses to a wide range of citywide hazards and vulnerabilities. The plan outlines the general authority, organization, and response actions for City of Livermore staff when disasters occur. Implementation of the proposed project, including the off-site trail improvements, would not result in any substantial modifications to the existing roadway system and, thus, would not physically interfere with the Emergency Plan, particularly with any roadways needed in the case of an emergency evacuation within the City. Furthermore, the proposed project would not include land uses or operations that could impair implementation of the plan.

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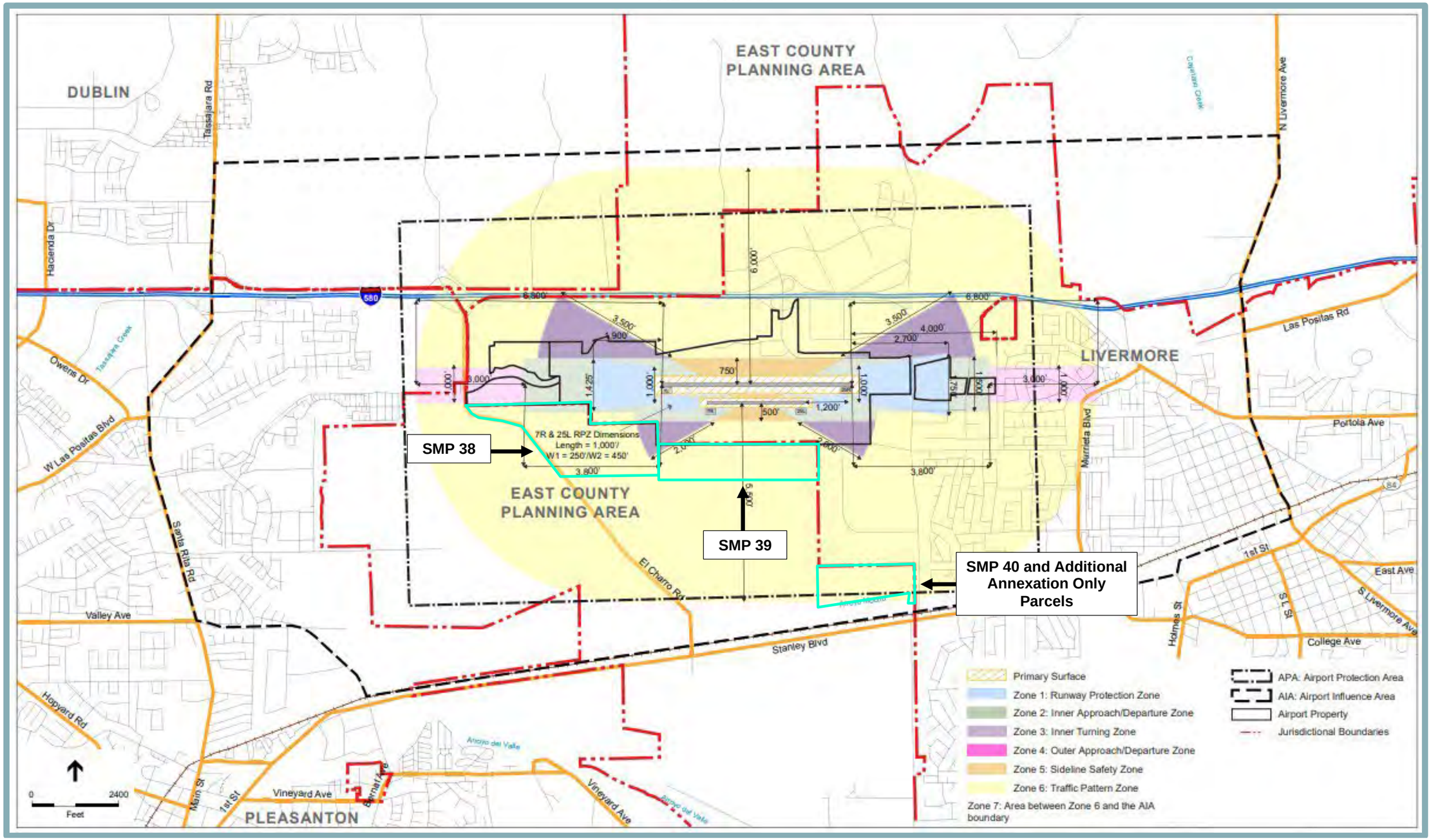
15 Alameda County Community Development Agency. *Livermore Executive Airport Land Use Compatibility Plan* [Figure 3-1]. August 2012.

16 City of Livermore. *Emergency Operations Plan*. January 2018.

Figure 15
ALUCP Areas



Therefore, the proposed project would not interfere with an emergency evacuation or response plan, and a ***less-than-significant*** impact would occur.

g. Issues related to wildfire hazards are discussed in Section XX, Wildfire, of this IS/MND. As noted therein, the project site is surrounded by urban development, and is generally located within a developed area of the City. The project site is not located near any wildlands or in an urban wildland interface. Thus, the potential for wildland fires to reach the project site would be relatively limited. According to the California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program, the project site is not located within a Very High Fire Hazard Severity Zone nor are Very High Fire Hazard Severity Zones located in close proximity to the project site.[17] Therefore, the proposed project would not expose people or structures to the risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands, and a ***less-than-significant*** impact would occur.

[17] California Department of Forestry and Fire Protection. *Alameda County, Very High Fire Hazard Severity Zones in LRA*. November 7, 2007.

X. HYDROLOGY AND WATER QUALITY. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	✖	☐	☐	☐
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	✖	☐	☐	☐
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 off-site;	✖	☐	☐	☐
ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	✖	☐	☐	☐
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	✖	☐	☐	☐
iv. Impede or redirect flood flows?	✖	☐	☐	☐
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	✖	☐	☐	☐
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	✖	☐	☐	☐

Discussion

a. During the early stages of construction of the proposed project and the off-site trail improvements, topsoil would be exposed due to grading and leveling of the site. Therefore, after grading and leveling and prior to overlaying the ground with imperious surfaces, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which would adversely affect water quality. In addition, the proposed project would result in the generation of increased urban runoff from the creation of substantial impervious areas, which could contribute urban runoff constituents to downstream surface waters. The proposed project would be subject to regulation by the Regional Water Quality Control Board (RWQCB) to prevent degradation of water quality.

Based on the above, the proposed project could result in the violation of water quality standards and degradation of water quality, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

b,e. The City of Livermore Water Resources Division would provide water to the project site. According to the City of Livermore Water Resources Division 2020 Urban Water Management Plan (UWMP), all potable water distributed through the Livermore Water

Resources Division is purchased wholesale from Zone 7 Water Agency.[18] Zone 7 oversees water issues within the Livermore-Amador Valley and is a State Water Project (SWP) contractor. Water sources for the City of Livermore Water Resources Division through Zone 7 include surface water from the SWP, water transferred from the Byron Bethany Irrigation District, local surface runoff captured in Del Valle Reservoir, groundwater extraction from the Livermore Valley Main Groundwater Basin, non-local groundwater storage in the Semitropic Water Storage District and Cawelo Water District, and future local storage in the Chain-of-Lakes. As such, a portion of the water supplied to the project site would be derived from groundwater sources. In December 2021, the Zone 7 Water Agency adopted the Alternative Groundwater Sustainability Plan for the Livermore Valley Groundwater Basin. Given that a portion of the water supplied to the project site would be derived from groundwater sources, the proposed project could substantially decrease groundwater supplies and, therefore, affect implementation of the Alternative Groundwater Sustainability Plan for the Livermore Valley Groundwater Basin.

Additionally, the project site is currently undeveloped, and the current pervious surfaces on-site could be contributing to groundwater recharge. Furthermore, while the majority of the off-site trail improvement areas would be within the existing roadways, portions of the trail improvement areas are currently covered in pervious surfaces. Therefore, the proposed project would result in an increase in impervious surfaces, and, thus, could affect groundwater recharge conditions within the project area.

Based on the above, further analysis is required to determine if the proposed project would substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the Livermore Valley Main Groundwater Basin. Thus, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

c.i-iii. For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings containing up to 758,808 sf of new building space with related internal roadways and other improvements. Additionally, as discussed above, while the majority of the off-site trail improvement areas would be within the existing roadways, portions of the trail improvement areas are currently located within areas containing pervious surfaces. As such, the development of the proposed project would create new impervious surfaces. The creation of new impervious surfaces and alteration of drainage patterns on the project site and off-site trail improvement areas could potentially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site and create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems. Thus, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

[18] City of Livermore Water Resources Division. *2020 Urban Water Management Plan* [pg. 4-1]. June 28, 2021.

c.iv. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map numbers 06001C0329G and 06001C0337G, the majority of SMP 38, a small portion along the southern boundary of SMP 39, and the majority of SMP 40 are located within Zones A and AE, which are Special Flood Hazard Areas. The remaining areas of the project site, including the Additional Annexation Only Parcels and the off-site trail improvement areas, are located within Zone X, which is not designated as a Special Flood Hazard Area.

Based on the above, development of the proposed project could impede or redirect flood flows and a ***potentially significant*** impact could result.

Further analysis of the above potential impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

d. Tsunamis are defined as sea waves created by undersea fault movement, whereas a seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir. Due to the project site's substantial distance from the coast, the proposed project would not be exposed to flooding risks associated with tsunamis. Seiches do not pose a risk to the proposed project, as the project site is not located adjacent to any closed body of water. However, as discussed under question 'c.iv' above, portions of the project site are located within a flood hazard zone. Thus, the proposed project could be subject to substantial flooding risks.

Based on the above, the proposed project could pose a risk related to the release of pollutants due to project inundation due to flooding, tsunami, or seiche, and a ***potentially significant*** could occur.

Further analysis of the above potential impact will be included in the Hydrology and Water Quality chapter of SMP 38/SMP39/SMP 40 Project EIR.

XI. LAND USE AND PLANNING. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Physically divide an established community?	☐	☐	✖	☐
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?	✖	☐	☐	☐

Discussion

a. A project risks dividing an established community if the project would introduce infrastructure or alter land uses so as to change the land use conditions in the surrounding community, or isolate an existing land use. Currently, SMP 39, SMP 40, and the majority of SMP 38 are undeveloped; however, several structures exist in the northwest corner of SMP 38 related to a former horse ranch, and minor structures associated with on-site infrastructure are located within a portion of the Additional Annexation Only Parcels. Nonetheless, development of SMP 38 and the Additional Annexation Only Parcels is not proposed. Surrounding uses in the project area generally include the San Francisco Premium Outlets, the Las Positas Golf Course, and the Livermore Municipal Airport to the north; Oaks Business Park to the east of SMP 39 and to the north, and adjacent to SMP 40; single-family residences to the east across Isabel Avenue; and gravel quarries/industrial ponds to the south and west.

   For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings containing up to 758,808 sf of new building space with related internal roadways and other improvements. However, as demonstrated throughout this Initial Study, the proposed project would be compatible with existing land uses in the project area and would not alter the existing general development trends in the area or isolate an existing land use. Therefore, the proposed project would not physically divide an established community, and a ***less-than-significant*** impact would occur.

b. The General Plan Guidelines published by the State Office of Planning and Research defines “consistency” as follows, “An action, program, or project is consistent with the general plan if, considering all its aspects, it will further the objectives and policies of the general plan and not obstruct their attainment.” The determination that the project is consistent or inconsistent with the City of Livermore General Plan policies or other City plans and policies is ultimately the decision of the Livermore City Council. Furthermore, although CEQA analysis may identify some areas of general consistency with City policies, the City has the ability to impose additional requirements or conditions of approval on a project, at the time of its approval, to bring a project into more complete conformance with existing policies.

   As discussed in the Project Description section of this Initial Study, the proposed project would require several approvals from the City of Livermore, including resolutions authorizing submittal of a Sphere of Influence (SOI) Amendment application to the Alameda County LAFCo, General Plan Amendments, Pre-zoning, Zoning Map Amendments, Vesting Tentative Subdivision Maps, Site Plan and Design Review for SMP 40, Development Agreements, and Pre-Annexation Agreements. Approval of the

requested entitlements are discretionary actions subject to approval by the Livermore City Council. Should the City of Livermore City Council approve the requested entitlements, the project would be rendered consistent with the City's General Plan and Municipal Code.

The focus of this section of the environmental checklist is whether the proposed project would conflict with plans or policies adopted for the purpose of avoiding or mitigating environmental effects.

This Initial Study demonstrates that the proposed project complies with several plans and policies adopted for the purpose of avoiding or mitigating an environmental effect. However, further analysis is required to ensure project consistency with specific plans and policies, including policies established by the City and the Alameda County LAFCo, that were adopted to avoid or mitigate environmental effects related to Agricultural Resources, Air Quality, Greenhouse Gas Emissions, and Energy, Biological Resources, Cultural and Tribal Cultural Resources, Hydrology and Water Quality, Noise, Transportation, and Public Services/Utilities and Service Systems.

Based on the above, the potential for the proposed project to 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 will be evaluated in the technical chapters of the SMP 38/SMP39/SMP 40 Project EIR. Pending further analysis, a ***potentially significant*** impact could occur.

Further analysis of applicable policies related to Agricultural Resources, Air Quality, Greenhouse Gas Emissions, and Energy, Biological Resources, Cultural and Tribal Cultural Resources, Hydrology and Water Quality, Noise, Transportation, and Public Services/Utilities and Service Systems will be discussed in their respective chapters of the SMP 38/SMP39/SMP 40 Project EIR.

XII. MINERAL RESOURCES. *Would the project:*		Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	✖	☐
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?	☐	☐	✖	☐

Discussion

a,b. According to the City's General Plan, areas within the vicinity of Livermore are underlain by alluvial deposits, which contain significant reserves of sand and gravel deposits suitable for use as aggregate in the production of Portland Concrete Cement. The mining is concentrated in the western portion of the Livermore area and extends into the Pleasanton area. Due to the value of the materials, California Division of Mines and Geology (now the California Geological Survey) has mapped and classified the aggregate resources of the Livermore-Amador Valley. Most of the valley floor south of I-580 is classified as an area of significant mineral resources, and includes areas classified as Mineral Resource Zone 2 (MRZ-2) and Mineral Resource Zone 3 (MRZ-3).[19] As part of the California Geological Survey Mineral Lands Classification Program, areas classified as MRZ-2 are considered in the determination of resource sectors. Sectors are areas where mineral extraction is occurring and areas that have current land uses that are similar to areas where mining has occurred in the past. As shown in Figure 16, the project sites are not located within an area identified as a resource sector, and, therefore, is determined to be within MRZ-3. Areas classified as MRZ-3 are considered to contain mineral deposits, but the significance of the deposits could not be determined on the basis of available information. The City's General Plan does not identify the project sites as being locally-important mineral resource recovery sites.

Based on the EIR prepared in 2004 for the SMP 38, SMP 39, and SMP 40 applications, a total of 53 million tons of aggregate material was proposed to be extracted under the SMPs for the parcels.[20] The Update of Mineral Land Classification: Aggregate Materials in the South San Francisco Bay Production-Consumption Region identifies a total of 254 million tons of aggregate resources within the Livermore Quadrangle, and a total of 3,775 million tons of aggregate resources within the entire South San Francisco Bay Production-Consumption Region (i.e., portions of Alameda, Contra Costa, San Francisco, San Mateo, and northern Santa Clara counties).[21]

Based on the amount of aggregate resources within the project site, as compared to the total amount of aggregate resources available within the Livermore Quadrangle, the project site contains approximately 20 percent of aggregate resources within the Livermore Quadrangle. However, the project would only include the development of SMP 39 and SMP 40.

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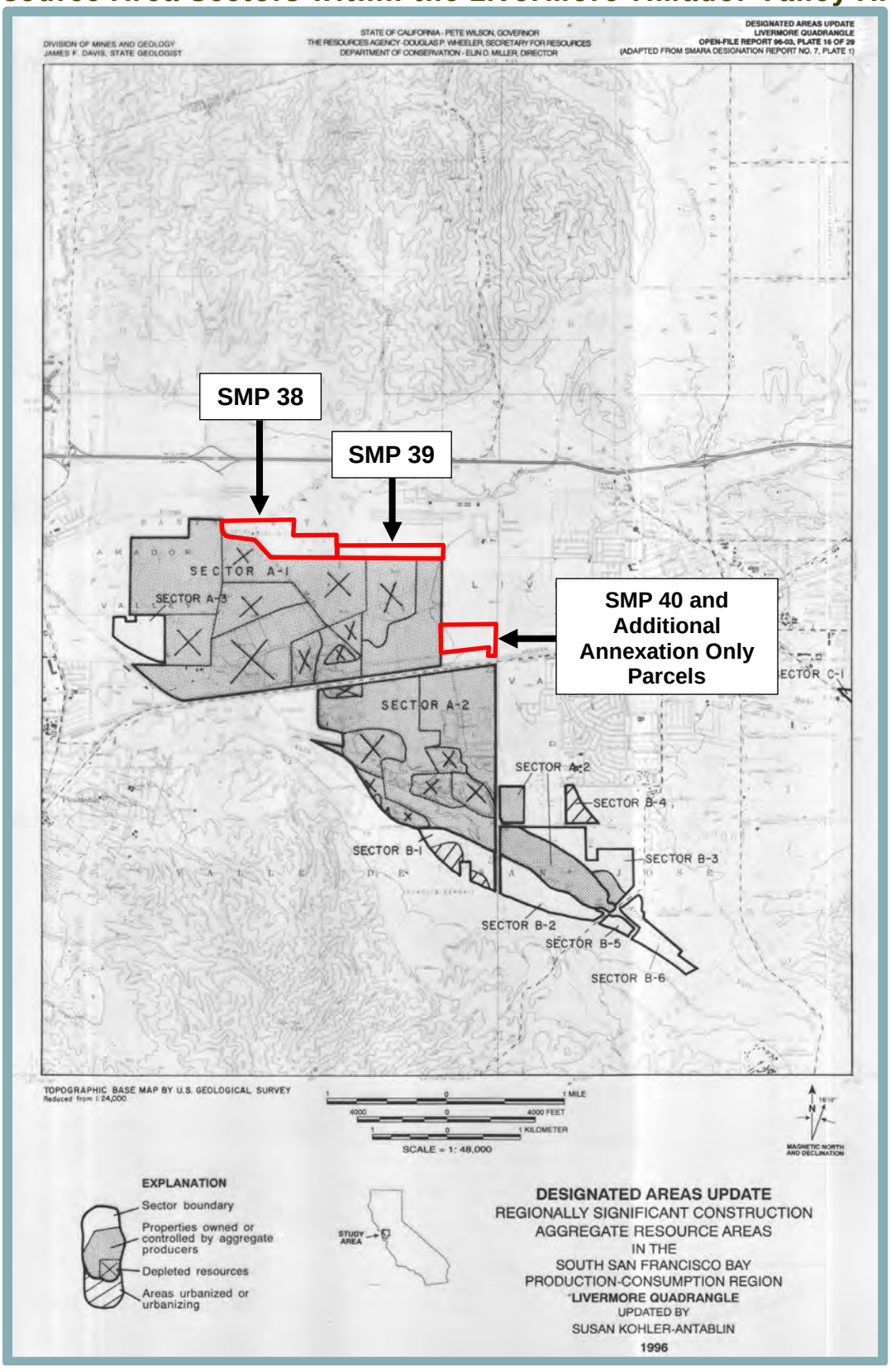
19 City of Livermore. *General Plan* [Figure 8-3]. December 2014.

20 Alameda County. *Application for Rhodes & Jamieson Aggregate Mines, Surface Mining Permits SMP-38, SMP-39, and SMP-40 Draft Environmental Impact Report (SCH #2003082034).* November 2004.

21 California Department of Conservation, Division of Mines and Geology. *Update of Mineral Land Classification: Aggregate Materials in the South San Francisco Bay Production-Consumption Region. 1996.*

Figure 16
Resource Area Sectors within the Livermore-Amador Valley Area



Therefore, should the property owner or the City decide to explore the possibility of mineral extraction at SMP 38 in the future, the extraction of the approximately 31 million tons of aggregate resources located within SMP 38 would not be precluded by approval of the proposed project. As such, the proposed project would only result in the loss of approximately 8.6 percent of the total available aggregate resources within the Livermore Quadrangle. Furthermore, when compared to the aggregate resources located within the South San Francisco Bay Production-Consumption Region, the proposed project would result in the loss of 0.5 percent of regional aggregate resources.

In addition, while the project sites contain existing mineral resource deposits, the sites have not been involved in any mining activities since the SMP applications were approved for the parcels in 2004. Furthermore, as discussed in Section IX, Hazards and Hazardous Materials, historical sources reviewed as part of the Phase I ESAs indicate that both SMP 39 and SMP 40 have been vacant or used for agricultural purposes since 1906, with the most recent agricultural uses occurring on both SMP 39 and SMP 40 prior to 2006.

Based on the above, the proposed project is located within MRZ-3, which is classified as areas considered to contain mineral deposits, but the significance of the deposits could not be determined on the basis of available information. In addition, the project site represents a small fraction of available mineral resources located within the Livermore Quadrangle, and an even smaller fraction of available mineral resources located within the South San Francisco Bay Production-Consumption Region. As such, the proposed project would not result in a significant loss of availability of a known mineral resource that would be of value to the region and the residents of the State. Furthermore, as discussed above, the City's General Plan does not identify the project site as being a locally-important mineral resource recovery site. Therefore, a ***less-than-significant*** impact to mineral resources would occur as a result of development of the proposed project.

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

Discussion

a. The existing noise environment in the project vicinity is defined primarily by vehicle noise from surrounding streets including SR 84, West Jack London Boulevard, and Stanley Boulevard. The proposed project would increase traffic noise levels on surrounding streets with the introduction of new industrial development on SMP 39 and SMP 40. In addition, project operations would also result in an increase in stationary noise associated with the proposed industrial land uses. Temporary noise sources would also be produced during construction activities. Construction activities could include earth moving activities, stationary equipment, and construction vehicles would generate noise during demolition, site preparation, excavation, and grading. Noise levels generated by the proposed project may exceed established thresholds in the City's General Plan Noise Element and Noise Ordinance. The proposed project could cause a substantial permanent, temporary, or periodic increase in ambient noise levels in the project vicinity above thresholds. Therefore, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Noise chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

b. Groundborne vibration would be generated during construction of the proposed project. Construction activities, including drilling, the use of jackhammers, and other high-power or vibratory tools, and heavy-duty equipment would produce groundborne vibrations. In the event that such groundborne vibration occurs within the vicinity of the existing sensitive receptors located approximately 450 feet to the east of the project site, across Isabel Avenue, the project could expose people to or generate excessive groundborne vibration or groundborne noise levels, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Noise chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

c. The nearest airport to the project site is the Livermore Municipal Airport, located approximately 100 feet north of SMP 38 and SMP 39. As such, the site is included within the Airport's Land Use Compatibility Plan. SMP 38 and SMP 39 are located within the Airport Protection Area boundaries, and all of the parcels included in the project site are

located within the Airport Influence Area boundaries.[22] Given that the project site is located within two miles of a public airport or public use airport, the proposed project could expose people residing or working in the project area to excessive noise levels associated with such. Thus, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Noise chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

[22] Alameda County Community Development Agency. *Livermore Executive Airport Land Use Compatibility Plan* [Figure 3-1]. August 2012.

XIV. POPULATION AND HOUSING. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)?	☐	☐	✖	☐
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	✖

Discussion

a. Development of the project site for industrial purposes would not result in direct population growth by proposing new homes. The project could indirectly attract residents to the area for employment opportunities. However, new employees would likely be drawn from current residents in the project area. In addition, the increase in jobs would be relatively small compared to the City's existing population. Therefore, the proposed project would not induce substantial unplanned population growth either directly or indirectly, and a ***less-than-significant*** impact would occur.

b. The project site is currently vacant and does not include existing housing or other habitable structures. As such, the proposed project would not displace a substantial number of existing housing or people and would not necessitate the construction of replacement housing elsewhere. Therefore, ***no impact*** would occur.

XV. PUBLIC SERVICES.

Would the project 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:	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Fire protection?	✖	☐	☐	☐
b. Police protection?	✖	☐	☐	☐
c. Schools?	☐	☐	✖	☐
d. Parks?	☐	☐	✖	☐
e. Other Public Facilities?	☐	☐	✖	☐

Discussion

a, b. Fire protection services are currently provided to the project area by the Livermore-Pleasanton Fire Department (LPFD). The nearest fire station to the project site is Station #10, located at 330 Airway Boulevard, approximately 0.48-mile from SMP 39, 1.04 miles from SMP 38, and 1.13 miles from SMP 40 and the Additional Annexation Only Parcels. The City of Livermore Police Department provides police protection services to the project area. The City's Police Department headquarters is located at 1197 South Livermore Avenue, approximately 2.81 miles from SMP 40 and the Additional Annexation Only Parcels, 3.41 miles from SMP 39, and 4.27 miles from SMP 38. The proposed project would include the development of new industrial buildings on previously undeveloped land, which could increase demand for fire and police protection services. Therefore, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Public Services/Utilities and Service Systems chapter of SMP 38/SMP 39/SMP 40 Project EIR.

c-e. The proposed project is industrial in nature, and, therefore, would not include any development that would result in direct population growth such that demand for schools, parks, or other public facilities would increase. The nearest park to the project site is Hagemann Park located approximately one mile to the east. In addition, the proposed project would include the development of an on-site trail along the western and southern boundaries of the SMP 40 site, as well as an off-site connection to the existing Arroyo Mocho Trail on the east side of Isabel Avenue/SR 84.

The proposed project would not bring school-age children to the area; thus, an impact to schools would not occur with implementation of the proposed project. Nonetheless, the project would be subject to payment of School Impact Mitigation Development Fees to fund local school services. Proposition 1A/SB 50 prohibits local agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any "[…] legislative or adjudicative act…involving …the planning, use, or development of real property" (Government Code 65996(b)). Satisfaction of the Proposition 1A/SB 50 statutory requirements by a developer is deemed to be "full and complete mitigation." Furthermore, the project would be subject to payment of the City's park facility fee in accordance with Section 12.60 of the Livermore Municipal Code. The fee, which is assessed based on employees per square foot for an industrial use, would help to fund expanded park facilities and services within the City. Therefore, the proposed project would have a ***less-***

than-significant impact related to the need for new or physically altered schools, parks, or other public facilities, the construction of which could cause significant environmental impacts.

XVI. RECREATION. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Would the project 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?	☐	☐	✖	☐
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?	☐	☐	✖	☐

Discussion

a,b. The nearest park to the project site is Hagemann Park located approximately one mile to the east. The proposed project would include the development of industrial uses, and would not result in population growth that could result in increased demand on existing recreational facilities or cause the construction or expansion of recreational facilities. In addition, the proposed project would include the development of an at-grade, paved shared-use path within a 38.5-foot trail easement along the SMP 39 frontage to connect to the existing Arroyo Mocho Trail along the Oaks Business Park, and an on-site trail along the western and southern boundaries of the SMP 40 site, as well as an off-site trail crossing, connecting to the existing Arroyo Mocho Trail on the east side of Isabel Avenue/SR 84. Furthermore, as discussed above, the project would be subject to payment of the City's park facility fee in accordance with Section 12.60 of the Livermore Municipal Code. The fee, which is assessed per 1,000 sf for an industrial use, would help to fund expanded park facilities and services within the City. Thus, a ***less-than-significant*** impact would occur.

XVII. TRANSPORTATION. *Would the project:*		Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a.	Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	✖	☐	☐	☐
b.	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (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)?	✖	☐	☐	☐
d.	Result in inadequate emergency access?	✖	☐	☐	☐

Discussion

a. The proposed project would result in an increase in employee vehicle and heavy-truck traffic on the street system surrounding the project area. The proposed project has the potential to generate new bicycle and pedestrian traffic as well. Determination of traffic impacts based solely on vehicle level of service (LOS) is no longer allowable based on CEQA Guidelines Section 15064.3. However, the potential remains for the proposed project to result in conflicts with City programs, plans, ordinances, and policies related to transportation facilities, including transit, roadway, bicycle, and pedestrian facilities. Therefore, a ***potentially significant*** impact could occur.

Further analysis of this potential impact will be discussed in the Transportation chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

b. Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts. Pursuant to Section 15064.3, analysis of Vehicle Miles Traveled (VMT) attributable to a project is the most appropriate measure of transportation impacts. The Office of Planning and Research (OPR) released a Technical Advisory on Evaluating Transportation Impacts in CEQA in December 2018, which provides recommendations regarding VMT evaluation methodology, significance thresholds, and screening thresholds for land use projects.[1] The City of Livermore has not yet adopted a policy or thresholds of significance regarding VMT and, thus, the City typically relies on the recommendations set forth by OPR to evaluate transportation impacts pursuant to CEQA. However, pursuant to Section 15064.3(3) of the CEQA Guidelines, a lead agency may analyze a project's VMT qualitatively based on the availability of transit, proximity to destinations, etc. Given that the proposed project would result in increased vehicle trip generation on local roadways and increased VMT, further analysis of VMT attributable to the project is required to determine whether the project's increase in VMT would conflict with Section 15064.3(b) of the CEQA Guidelines. Thus, a ***potentially significant*** impact could occur.

Further analysis of this potential impact will be discussed in the Transportation chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

c,d. For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed

[1] Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.

project would include development of two industrial buildings containing up to 758,808 sf of new building space with related internal roadways and other improvements. The proposed increase in development intensity of the site through development of the proposed industrial land uses could cause an increase in traffic-related hazards or affect emergency access in the project area, particularly through the increase in heavy-duty trucks on the surrounding roadway network. Without further evaluation, the proposed project could result in a ***potentially significant*** impact related to an increase in hazards from design features or incompatible uses, or inadequate emergency access to the project.

Further analysis of this potential impact will be discussed in the Transportation chapter of the SMP 38/SMP 39/SMP 40 Project EIR.

XVIII. TRIBAL CULTURAL RESOURCES. *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:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k).	✖	☐	☐	☐
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	✖	☐	☐	☐

Discussion

a,b. According to the City's General Plan EIR, Livermore is within the former territories of the Ssoam, Luecha, and Pelnen tribelets, three of approximately 40 Ohlone tribes which existed in the Bay Area prior to European settlement in the region. The proposed project would include grading and excavation during construction, which could lead to encountering previously unknown tribal cultural resources. Tribal resources may exist within the project site due to the site's proximity to Arroyo Mocho. To aid in the determination of the presence or absence of tribal cultural resources, the City is in the process of conducting tribal outreach pursuant to AB 52 and SB 18. At this time, the presence or absence of tribal cultural resources cannot be known. Therefore, further analysis is required and a ***potentially significant*** impact to tribal cultural resources could occur.

Further analysis of the above potential impact will be included in the Cultural and Tribal Resources chapter of SMP 38/SMP 39/SMP 40 EIR.

XIX. UTILITIES AND SERVICE SYSTEMS. *Would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	✖	☐	☐	☐
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	✖	☐	☐	☐
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?	✖	☐	☐	☐
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?	✖	☐	☐	☐
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	✖	☐	☐	☐

Discussion

a. The project site is currently undeveloped and would require new connections to the water, wastewater treatment, and storm water drainage, electric power, or telecommunications facilities in the project vicinity. The proposed project would require access to sewer and water from the City of Livermore, which provides water and sewer service to the area. Electricity would be provided by PG&E, which currently provides service to the project area. The EIR will include analysis of the infrastructure improvements required to connect the project to the existing systems in the project vicinity, and whether these improvements could result in significant environmental effects due to their construction. As such, a ***potentially significant*** impact could occur.

Further analysis of the above potential impact will be included in the Public Services/Utilities and Service Systems chapter of SMP 38/SMP 39/SMP 40 Project EIR.

b. The City of Livermore Water Resources Division would provide water to the project site. According to the City of Livermore Water Resources Division 2020 UWMP, all potable water distributed through the Livermore Water Resources Division is purchased wholesale from Zone 7 Water Agency.[23]

For SMP 39, the proposed project would include development of a total of up to six light industrial buildings, consisting of up to approximately 755,500 sf of new building space, and associated internal roadways and other improvements; for SMP 40, the proposed project would include development of two industrial buildings containing up to 758,808 sf of new building space with related internal roadways and other improvements. Both SMP

[23] City of Livermore Water Resources Division. *2020 Urban Water Management Plan* [pg. 4-1]. June 28, 2021.

39 and SMP 40 are currently undeveloped. In addition, the proposed project would require General Plan amendments, pre-zoning, zoning map amendments, annexation, and an SOI amendment. Therefore, implementation of the proposed project would result in an increase in demand for water that was not previously anticipated by the City. Further analysis is necessary to ensure that adequate water supplies would be available to serve the project and future planned development during normal, dry, and multiple dry years. Therefore, the proposed project could result in a ***potentially significant*** impact related to having sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years.

Further analysis of the above potential impact will be included in the Public Services/Utilities and Service Systems chapter of SMP 38/SMP 39/SMP 40 Project EIR.

c. Within the City of Livermore, sewer service is provided by the City of Livermore's Public Works Department. With the exception of two pump stations, all of the wastewater flow in Livermore is conveyed to the City of Livermore Water Reclamation Plant by gravity. According to the City's General Plan, new facilities at the Water Reclamation Plant would be needed to handle projected ultimate flows occurring under buildout of the City's Planning Area.[24] Given that the proposed project is currently primarily undeveloped and would include General Plan amendments, pre-zoning, zoning map amendments, annexation, and an SOI amendment, the proposed project would result in an increase in wastewater generation that was not previously anticipated by the City.

Further analysis is necessary to ensure that the City of Livermore Water Reclamation Plant has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments. Therefore, a ***potentially significant*** impact may occur.

Further analysis of the above potential impact will be included in the Public Services/Utilities and Service Systems chapter of SMP 38/SMP 39/SMP 40 Project EIR.

d,e. Solid waste, recyclable materials, and compostable material collection within the City of Livermore is provided through a franchise agreement with Livermore Sanitation, Inc. Solid waste from the City is ultimately disposed of at the Republic Services Vasco Road Landfill, located at 4001 North Vasco Road. As of 2017, the landfill had approximately 6,800,000 cubic yards (CY) of remaining capacity, or 20.6 percent of the total permitted capacity of the landfill (32,970,000 CY).[25] While the landfill has remaining capacity, the proposed project has not been anticipated by the City, and could result in increased solid waste generation beyond what has been previously anticipated for the site by the City and analyzed in the General Plan EIR.

Based on the above, the proposed project could 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. Further study is necessary to determine if the project would comply with federal, State, and local management and reduction statutes and regulations related to solid waste. Therefore, a ***potentially significant*** impact related to solid waste would occur as a result of the proposed project.

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[24] City of Livermore. *General Plan, 2003-2025.* Amended December 2014.

[25] Department of Resources Recycling and Recovery. *Vasco Road Landfill, Application for Solid Waste Facility Permit and Waste Discharge Requirements.* October 31, 2018.

Further analysis of the above potential impact will be included in the Public Services/Utilities and Service Systems chapter of SMP 38/SMP 39/SMP 40 Project EIR.

XX. WILDFIRE. *If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:*	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	✖	☐
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?	☐	☐	✖	☐
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?	☐	☐	✖	☐
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?	☐	☐	✖	☐

Discussion

a-d. According to the California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program, the project site is not located within a State Responsibility Area or a Very High Fire Hazard Severity Zone, nor are Very High Fire Hazard Severity Zones located in close proximity to the project site.[26] In addition, the project site is surrounded by urban development, and is generally located within a developed area of the City. Existing development minimizes the likelihood for the spread of wildfire to the site, as the development acts as a fuel break due to lack of brush and other vegetation that could act as fire fuel. Large industrial ponds are also located to the south and west of the project site, which would help prevent the spread of wildfire within the project area. Thus, the potential for wildfires to reach the project site would be relatively limited. Furthermore, the proposed project would include fire sprinklers, and other fire suppression features, consistent with the CBSC and California Fire Code (CFC). Therefore, the proposed project would not be expected to be subject to or result in substantial adverse effects related to wildfires, and a ***less-than-significant*** impact would occur.

[26] California Department of Forestry and Fire Protection. *Alameda County, Very High Fire Hazard Severity Zones in LRA*. November 7, 2007.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE.	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
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 a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	✖	☐	☐	☐
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)?	✖	☐	☐	☐
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	✖	☐	☐	☐

Discussion

a. As discussed in Section IV, Biological Resources, of this Initial Study, the proposed project could potentially result in impacts to special-status plant and wildlife species and other biological resources. Thus, implementation of the proposed project could have the potential to degrade the quality of the environment by potentially reducing the habitat for special-status plant and animal species. In addition, the project could have a substantial adverse effect on riparian habitat or other sensitive natural communities. Furthermore, as noted in Section V, the project site has not been formally evaluated for the presence of cultural resources, and the possibility exists for such resources to be found on-site, and within the off-site trail improvement areas. As such, in the absence of further study, the project could eliminate important examples of the major periods of California history or prehistory. Thus, a ***potentially significant*** impact could occur.

Further analysis of the above potential impacts will be included in SMP 38/SMP 39/SMP 40 EIR.

b. The proposed project, in conjunction with other development within the City of Livermore, could incrementally contribute to cumulative impacts in the project area. Thus, further analysis is necessary to determine if the proposed project would result in cumulatively considerable impacts. In particular, the proposed project has the potential to result in cumulative impacts related to the following: Agricultural Resources; Air Quality, Greenhouse Gas Emissions, and Energy; Biological Resources; Cultural and Tribal Cultural Resources; Hydrology and Water Quality; Noise, Public Services and Utilities, and Transportation. Thus, a ***potentially significant*** impact could occur with regard to cumulative impacts in the project area.

Further analysis of the above potential impacts will be included in SMP 38/SMP 39/SMP 40 EIR.

c. As described in this Initial Study, implementation of the proposed project could result in impacts related to air quality and excess noise levels. As such, in the absence of further

study, the project could cause substantial adverse effects on human beings, and a ***potentially significant*** impact could occur.

Further analysis of the above potential impacts will be included in SMP 38/SMP 39/SMP 40 EIR.

APPENDIX A

GEOTECHNICAL INVESTIGATION

CORNERSTONE EARTH GROUP

TYPE OF SERVICES	Geotechnical Investigation
PROJECT NAME	Oaks Business Park and Jack London Boulevard (SMP 39 and 40)
LOCATION	Stanley Boulevard Livermore, California
CLIENT	Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC
PROJECT NUMBER	681-7-1
DATE	November 23, 2021

CORNERSTONE EARTH GROUP

Type of Services	**Geotechnical Investigation**
Project Name	**Oaks Business Park and Jack London Boulevard (SMP 39 and 40)**
Location	**Stanley Boulevard Livermore, California**
Client	**Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC**
Client Address	**19300 South Hamilton Avenue, Suite 200 Gardena, California**
Project Number	**681-7-1**
Date	**November 23, 2021**

Prepared by

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Type of Services	**Geotechnical Investigation**
Project Name	**Oaks Business Park and Jack London Boulevard (SMP 39 and 40)**
Location	**Stanley Boulevard Livermore, California**

SECTION 1: INTRODUCTION

This geotechnical report was prepared for the sole use of Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC for the Oaks Business Park and Jack London Boulevard (SMP 39 and 40) in Livermore, California. The location of the site is shown on the Vicinity Map, Figure 1. For our use, we were provided with the following documents:

- A conceptual site plan for SMP 39 titled, "Jack London Blvd., Alameda, County, CA, Scheme 4," prepared by HPA Architects, dated August 23, 2021.
- A conceptual site plan for SMP 40 titled, "Oaks Business Park – Bldg. 1 & 2, Livermore, CA, Scheme 11," prepared by HPA Architects, dated March 17, 2021.

1.1 PROJECT DESCRIPTION

We understand the project includes two sites, Jack London Boulevard (SMP 39) and the Oaks Business Park (SMP 40). The project will include developing the approximately 72-acrea overall project site for a new commercial warehouse/distribution facility. The new facility will include five buildings at SMP 39 with building footprints ranging from about 65,000 to 162,000 square feet and two buildings at SMP 40 with building footprints of approximately 290,000 and 471,500 square feet. Office areas and mezzanines will also be included. At SMP 39, loading docks and truck aprons will be located along the east side of Building 1 and on the south side of Buildings 2 through 5. At SMP 40, loading docks and truck aprons will be located along the east and west sides of Building 1 and on the north and south sides of Building 2. All buildings will most likely be high-bay, 36 to 38 feet clear and consist of tilt-up construction. Appurtenant utilities, landscaping, stormwater management areas, and other improvements necessary for overall site development will also be constructed as part of the overall site development.

Building loads are expected to be typical of this type of construction. Site grading with cuts and fills on the order of 5 feet are estimated.

1.2 SCOPE OF SERVICES

Our scope of services was presented in our proposal dated March 23, 2021 and consisted of field and laboratory programs to evaluate physical and engineering properties of the subsurface soils, engineering analysis to prepare recommendations for site work and grading, building foundations, flatwork, retaining walls, and pavements, and preparation of this report. Brief descriptions of our exploration and laboratory programs are presented below.

1.3 EXPLORATION PROGRAM

Field exploration consisted of 18 borings drilled on October 4, 5, 6, 7, 8, and 11, 2021 with truck-mounted hollow-stem auger drilling equipment and 20 Cone Penetration Tests (CPTs) advanced on September 16, 17, 22, and 25, 2021. The borings were drilled to depths of 29 to 45 feet; the CPTs were advanced to depths of 37 to 100 feet, or drilling refusal. Seismic shear wave velocity measurements were collected from CPT-1,2,6,7,9 and 10. Several of the borings (Borings EB-9, 10, 11, 13, 14, 15, 16, 17, and 18) were advanced adjacent to CPT-10, 11, 12, 14, 15, 16, 17, 18, and 19 for direct evaluation of physical samples to correlated soil behavior. The borings and CPTs were backfilled with cement grout in accordance with local requirements; exploration permits were obtained as required by local jurisdictions.

The approximate locations of our exploratory borings are shown on the Site Plan, Figure 2. Details regarding our field program are included in Appendix A.

1.4 LABORATORY TESTING PROGRAM

In addition to visual classification of samples, the laboratory program focused on obtaining data for foundation design and seismic ground deformation estimates. Testing included moisture contents, dry densities, washed sieve analyses, Plasticity Index tests. Details regarding our laboratory program are included in Appendix B.

1.5 CORROSION EVALUATION

Six samples from our borings from depths of about 1½ to 5½ feet were tested for saturated resistivity, pH, and soluble sulfates and chlorides. In general, the on-site soils can be characterized as moderately corrosive to buried metal, and non-corrosive to buried concrete. Please refer to Section 3 for further information.

1.6 ENVIRONMENTAL SERVICES

Environmental services were not requested for this project. If environmental concerns are determined to be present during future evaluations, the project environmental consultant should review our geotechnical recommendations for compatibility with the environmental concerns.

SECTION 2: REGIONAL SETTING

2.1 GEOLOGICAL SETTING

The site is located within the central Diablo Range, a topographic upland separating San Francisco Bay from the San Joaquin Valley. This represents one mountain range in a series of northwesterly-aligned mountains forming the Coast Ranges geomorphic province of California that stretches from the Oregon border nearly to Point Conception. In the San Francisco Bay area, most of the Coast Ranges have developed on a basement of tectonically mixed Cretaceous- and Jurassic-age (70- to 200-million years old) rock of the Franciscan Complex. Younger sedimentary and volcanic rocks locally cap these basement rocks. Still younger surficial deposits that reflect geologic conditions of the last million years or so cover most of the Coast Ranges.

Movement on the many splays of the San Andreas Fault system has produced the dominant northwest-oriented structural and topographic trend seen throughout the Coast Ranges today. This trend reflects the boundary between two of the Earth's major tectonic plates: the North American plate to the east and the Pacific plate to the west. The fault system is about 40 miles wide in the Bay area and extends from the San Gregorio Fault near the coastline to the Coast Ranges-Central Valley blind thrust at the western edge of the Great Central Valley. The San Andreas Fault is the dominant structure in the system, nearly spanning the length of California, and capable of producing the highest magnitude earthquakes. Many other subparallel or branch faults within the San Andreas system, including the nearby Calaveras and Hayward faults, are equally active and nearly as capable of generating large earthquakes. Right-lateral movement dominates on these faults, but an increasingly large amount of thrust faulting resulting from compression across the system is now being identified also, such as the displacement shown on the nearby Verona Fault.

The site is located near the central portion of Livermore Valley, which is a broad intermontane lowland. Livermore Valley is filled with a considerable thickness of relatively young alluvial sediments. The alluvium consists of gravel, sand, silt and clay that have been carried by streams from the surrounding upland areas. Soils that develop on and wash out of the Livermore Gravels often have expansive characteristics due to the high clay content (Ellen and Wentworth, 1995).

2.2 REGIONAL SEISMICITY

While seismologists cannot predict earthquake events, geologists from the U.S. Geological Survey have recently updated (in 2015) earlier estimates from their 2014 Uniform California Earthquake Rupture Forecast (Version 3; UCERF3) publication. The estimated probability of one or more magnitude 6.7 earthquakes (the size of the destructive 1994 Northridge earthquake) expected to occur somewhere in the San Francisco Bay Area has been revised (increased) to 72 percent for the period 2014 to 2043 (Aagaard et al., 2016). The faults in the region with the highest estimated probability of generating damaging earthquakes between 2014 and 2043 are the Hayward (33%), Calaveras (26%), and San Andreas Faults (22%). In

this 30-year period, the probability of an earthquake of magnitude 6.7 or larger occurring is 22 percent along the San Andreas Fault and 33 percent for the Hayward Fault.

The faults considered capable of generating significant earthquakes are generally associated with the well-defined areas of crustal movement, which trend northwesterly. The table below presents the State-considered active faults within 25 kilometers of the site.

Table 1: Approximate Fault Distances

Fault Name	Distance	
	(miles)	(kilometers)
Calaveras	5.6	9.0
Greenville	6.8	11.0
Hayward (Total Length)	11.6	18.6

A regional fault map is presented as Figure 3, illustrating the relative distances of the site to significant fault zones.

SECTION 3: SITE CONDITIONS

3.1 SURFACE DESCRIPTION

The sites are currently undeveloped and appear to slope from west to east. Based on Google Earth, SMP 39 appears to slope from approximately Elevation 371 feet on the west to Elevation 398 feet on the east and SMP 40 appears to slope from approximately Elevation 402 feet on the west to Elevation 420 feet on the east. Both sides appear to be relatively level from north to south. SMP 39 is located northwest of SMP 40 and is bounded by West Jack London Boulevard to the north, an access road and industrial development to the east, undeveloped land and ponds to the south, and undeveloped land to the west. SMP 40 is bounded by industrial development to the north, a channel and Isabel Avenue to the east, a channel and undeveloped land to the south, and undeveloped land and ponds to the west. The ground surface was covered in about 6 to 12 inches of loose surficial soils at the time of our investigation. The site has been tilled for weed control and/or agricultural use in the past.

3.2 SUBSURFACE CONDITIONS

3.2.1 SMP 39

Below the existing ground surface, our explorations at SMP 39 generally encountered approximately 1½ to 2 feet of undocumented fill consisting of hard sandy lean clay and loose to medium dense sands with varying amounts of silt and clay. Beneath the undocumented fills, our borings generally encountered interbedded layers of very stiff to hard lean clay with varying amounts of sand and loose to medium dense sands with varying amounts of silt and clay to depths of about 14½ to 36 feet underlain by medium dense to dense sands with varying

amounts of silt and medium dense to very dense poorly graded gravel with silt and sand to the terminal boring depths of about 29½ to 45 feet below existing grades.

3.2.2 SMP 40

Below the existing ground surface, our explorations at SMP 40 generally encountered approximately 1½ to 2 feet of undocumented fill consisting of hard sandy lean clay and loose to medium dense sands with varying amounts of silt and clay. Beneath the undocumented fills, our borings generally encountered interbedded layers of stiff to hard lean clay with varying amounts of sand, loose to dense sands with varying amounts of silts and clays, and medium dense to very dense poorly graded gravel with silt and sand to the terminal boring depths of about 29 to 45 feet below existing grades.

3.2.3 Plasticity/Expansion Potential

We performed two Plasticity Index (PI) tests on representative samples. Test results were used to evaluate expansion potential of surficial soils, and the plasticity of the fines in potentially liquefiable layers. The results of the surficial PI test resulted in a PI of 9, indicating low expansion potential to wetting and drying cycles. The results of the PI test in the potentially liquefiable layers indicated PI of 3.

3.2.4 In-Situ Moisture Contents

Laboratory testing indicated that the in-situ moisture contents within the upper 10 feet range from about 1 to 8 percent under the estimated laboratory optimum moisture.

3.3 GROUNDWATER

Groundwater was not encountered in our exploratory borings but was inferred from pore pressure dissipation tests at depths ranging from about 39 to 73 feet below current grades in CPT-6, CPT-9, and CPT-16. Historic high groundwater is mapped at a depth of about 35 to 60 feet at SMP 39 and about 55 to 60 feet at SMP 40. All measurements were taken at the time of drilling and may not represent the stabilized levels that can be higher than the initial levels encountered.

Based on the above, we recommend a design groundwater depth of 35 feet for SMP 39 and a design groundwater depth of 55 feet for SMP 40. Fluctuations in groundwater levels occur due to many factors including seasonal fluctuation, underground drainage patterns, regional fluctuations, and other factors.

3.4 CORROSION SCREENING

We tested six samples collected at depths of 1½ to 5½ feet for resistivity, pH, soluble sulfates, and chlorides. The laboratory test results are summarized in Table 2A.

Table 2A: Summary of Corrosion Test Results

Sample Location	Depth (feet)	Soil pH[1]	Resistivity[2] (ohm-cm)	Chloride[3] (mg/kg)	Sulfate[4,5] (mg/kg)
EB-1	3.5	7.8	2,967	9	38
EB-3	1.5	7.2	3,942	3	15
EB-7	5.5	7.5	4,520	7	34
EB-11	3.5	7.4	4,039	3	16
EB-15	5.5	7.4	4,370	2	16
EB-18	3.5	7.5	4,763	5	16

Notes: [1]ASTM G51
[2]ASTM G57 - 100% saturation
[3]ASTM D3427/Cal 422 Modified
[4]ASTM D3427/Cal 417 Modified
[5]1 mg/kg = 0.0001 % by dry weight

Many factors can affect the corrosion potential of soil including moisture content, resistivity, permeability, and pH, as well as chloride and sulfate concentration. Typically, soil resistivity, which is a measurement of how easily electrical current flows through a medium (soil and/or water), is the most influential factor. In addition to soil resistivity, chloride and sulfate ion concentrations, and pH also contribute in affecting corrosion potential.

3.4.1 Preliminary Soil Corrosion Screening

Based on the laboratory test results summarized in Table 2A and published correlations between resistivity and corrosion potential, the soils may be considered moderately corrosive to buried metallic improvements (Chaker and Palmer, 1989).

In accordance with the 2019 CBC Section 1904.1, alternative cementitious materials for different exposure categories and classes shall be determined in accordance with ACI 318-19 Table 19.3.1.1, Table R19.3.1, and Table 19.3.2.1. Based on the laboratory sulfate test results, a cement type restriction is not required, although, in our opinion, it is generally a good idea to include some sulfate resistance and to maintain a relatively low water-cement ratio. We have summarized applicable exposure categories and classes from ACI 318-19, Table 19.3.1.1 below in Table 3A.

Table 2B: ACI 318-19 Table 19.3.1.1 Exposure Categories and Classes

Freezing and Thawing (F)	Sulfate (S, soil)	In Contact with Water (W)	Corrosion Protection of Reinforcement (C)
F0[1]	S0[2]	W0[3]	C0[4]

1 (F0) “Concrete not exposed to freezing-and-thawing cycles” (ACI 318-19)
2 (S0) “Water soluble sulfate in soil, percent by mass” (ACI 318-19)
3 (W0) “Concrete dry in service” (ACI 318-19)
4 (C0) “Concrete dry or protected from moisture” (ACI 318-19)

We recommend the structural engineer and a corrosion engineer be retained to confirm the above information and provide additional recommendations, as needed.

SECTION 4: GEOLOGIC HAZARDS

4.1 FAULT SURFACE RUPTURE

As discussed above several significant faults are located within 25 kilometers of the site. The site is not located within a State-designated Alquist Priolo Earthquake Fault Zone. As shown in Figure 3, no known surface expression of fault traces is thought to cross the site; therefore, fault surface rupture hazard is not a significant geologic hazard at the site.

4.2 ESTIMATED GROUND SHAKING

Moderate to severe (design-level) earthquakes can cause strong ground shaking, which is the case for most sites within the Bay Area. A peak ground acceleration $(PGA)_M$ was estimated for analysis using a value equal to F_{PGA} x PGA, as allowed in the 2019 edition of the California Building Code when an exception has been taken per ASCE 7-16, Section 11.4.8. For our liquefaction analysis we used a PGA_M of 0.629g.

4.3 LIQUEFACTION POTENTIAL

The site is partially within a State-designated Liquefaction Hazard Zone (CGS, Livermore Quadrangle, 2008). Our field and laboratory programs addressed this issue by testing and sampling potentially liquefiable layers to depths of at least 50 feet, performing visual classification on sampled materials, evaluating CPT data, and performing various tests to further classify soil properties.

4.3.1 Background

During strong seismic shaking, cyclically induced stresses can cause increased pore pressures within the soil matrix that can result in liquefaction triggering, soil softening due to shear stress loss, potentially significant ground deformation due to settlement within sandy liquefiable layers as pore pressures dissipate, and/or flow failures in sloping ground or where open faces are present (lateral spreading) (NCEER 1998). Limited field and laboratory data is available regarding ground deformation due to settlement; however, in clean sand layers settlement on the order of 2 to 4 percent of the liquefied layer thickness can occur. Soils most susceptible to liquefaction are loose, non-cohesive soils that are saturated and are bedded with poor drainage, such as sand and silt layers bedded with a cohesive cap.

4.3.2 Analysis

As discussed in the “Subsurface” section above, several sand layers were encountered below the design groundwater depth of 35 feet for SMP 39 and 55 feet for SMP 40. Following the liquefaction analysis framework in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008), incorporating updates in *CPT and SPT Based Liquefaction*

Triggering Procedures (Boulanger and Idriss, 2014), and in accordance with CDMG Special Publication 117A guidelines (CDMG, 2008) for quantitative analysis, these layers were analyzed for liquefaction triggering and potential post-liquefaction settlement. These methods compare the ratio of the estimated cyclic shaking (Cyclic Stress Ratio - CSR) to the soil's estimated resistance to cyclic shaking (Cyclic Resistance Ratio - CRR), providing a factor of safety against liquefaction triggering. Factors of safety less than or equal to 1.3 are considered to be potentially liquefiable and capable of post-liquefaction re-consolidation (i.e. settlement).

The CSR for each layer quantifies the stresses anticipated to be generated due to a design-level seismic event, is based on the peak horizontal acceleration generated at the ground surface discussed in the "Estimated Ground Shaking" section above, and is corrected for overburden and stress reduction factors as discussed in the procedure developed by Seed and Idriss (1971) and updated in the 2008 Idriss and Boulanger monograph.

The soil's CRR is estimated from the in-situ measurements from CPTs and laboratory testing on samples retrieved from our borings. SPT "N" values obtained from hollow-stem auger borings were not used in our analyses, as the "N" values obtained are less reliable in sands below ground water. The tip pressures are corrected for effective overburden stresses, taking into consideration both the ground water level at the time of exploration and the design ground water level, and stress reduction versus depth factors. The CPT method utilizes the soil behavior type index (I_C) to estimate the plasticity of the layers.

The results of our CPT analyses (CPT-1 through CPT-20) are presented on Figures 4A through 4T of this report.

4.3.3 Summary

Our analyses indicate that several layers could potentially experience liquefaction triggering that could result in post-liquefaction total settlement at the ground surface on the order of ¼ inch or less based on the Yoshimine (2006) method. As discussed in SP 117A, differential movement for level ground sites over deep soil sites will be up to about two-thirds of the total settlement between independent foundation elements. In our opinion, differential settlements are anticipated to be on the order of less than ¼-inch over a horizontal distance of 50 to 60 feet.

4.3.4 Ground Deformation and Surficial Cracking Potential

The methods used to estimate liquefaction settlements assume that there is a sufficient cap of non-liquefiable material to prevent ground deformation or sand boils. For ground deformation to occur, the pore water pressure within the liquefiable soil layer will need to be great enough to break through the overlying non-liquefiable layer, which could cause significant ground deformation and settlement. The work of Youd and Garris (1995) indicates that the minimum 35-foot thick layer of non-liquefiable cap is sufficient to prevent ground deformation and significant surficial cracking; therefore, the above total settlement estimates are reasonable.

4.4 LATERAL SPREADING

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. As failure tends to propagate as block failures, it is difficult to analyze and estimate where the first tension crack will form.

The potential for liquefaction at the site is considered low and there are no open faces within a distance considered susceptible to lateral spreading; therefore, in our opinion, the potential for lateral spreading to affect the site is low.

4.5 SEISMIC SETTLEMENT/UNSATURATED SAND SHAKING

Loose unsaturated sandy soils can settle during strong seismic shaking. As the soils encountered at the site were predominantly very stiff to hard clays and medium dense to very dense sands, in our opinion, the potential for significant differential seismic settlement affecting the proposed improvements is low.

4.6 LANDSLIDING

California Geologic Survey (CGS, 2008) maps a small area along the southern edge of SMP as being within an Earthquake-Induced Landslide Zone. However, this area falls outside the proposed building development area. Therefore, in our opinion, the potential for earthquake-induced landslides to affect the proposed buildings is low.

4.7 TSUNAMI/SEICHE

The terms tsunami or seiche are described as ocean waves or similar waves usually created by undersea fault movement or by a coastal or submerged landslide. Tsunamis may be generated at great distance from shore (far field events) or nearby (near field events). Waves are formed, as the displaced water moves to regain equilibrium, and radiates across the open water, similar to ripples from a rock being thrown into a pond. When the waveform reaches the coastline, it quickly raises the water level, with water velocities as high as 15 to 20 knots. The water mass, as well as vessels, vehicles, or other objects in its path create tremendous forces as they impact coastal structures.

Tsunamis have affected the coastline along the Pacific Northwest during historic times. The Fort Point tide gauge in San Francisco recorded approximately 21 tsunamis between 1854 and 1964. The 1964 Alaska earthquake generated a recorded wave height of 7.4 feet and drowned eleven people in Crescent City, California. For the case of a far-field event, the Bay area would have hours of warning; for a near field event, there may be only a few minutes of warning, if any.

A tsunami or seiche originating in the Pacific Ocean would lose much of its energy passing through San Francisco Bay. Based on the mapping of tsunami inundation potential for the San

Francisco Bay Area by CGS (conservation.ca.gov/cgs/tsunami/maps), areas most likely to be inundated are marshlands, tidal flats, and former bay margin lands that are now artificially filled, but are still at or below sea level, and are generally within 1½ miles of the shoreline. The site is approximately 18 miles inland from the San Francisco Bay shoreline and is approximately 371 to 420 feet above mean sea level. Therefore, the potential for inundation due to tsunami or seiche is considered low.

4.8 FLOODING

Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the SMP 39 site is located primarily located within Zone X, described as "Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood" for the western two-thirds of site and described as "Areas determined to be outside the 0.2% annual chance floodplain" for the eastern third. Small areas along the southern property line of SMP 39 are also mapped as being within Zone AE, described as "Special Flood Hazard Areas subject to inundation by the 1% annual chance flood; Base Flood Elevations determined." Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the SMP 40 site is located in four different flood zones. The northern portion of SMP 40 is located within Zone X, described as "Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood" and "Areas determined to be outside the 0.2% annual chance floodplain." The southern portion of SMP 40 is located within Zone AE and described as both a "Special Flood Hazard Area subject to inundation by the 1% annual chance flood; Base Flood Elevations determined" and a "Floodway Area" for the Arroyo Mocho channel. We recommend the project civil engineer be retained to confirm this information and verify the base flood elevation, if appropriate.

The Department of Water Resources (DWR), Division of Safety of Dams (DSOD) compiled a database of Dam Failure Inundation Hazard Maps (DSOD, 2015). The generalized hazard maps were prepared by dam owners as required by the State Office of Emergency Services; they are intended for planning purposes only. Based on our review of these maps, the site is not located within a dam failure inundation area. We recommend the project civil engineer be retained to confirm this information.

SECTION 5: CONCLUSIONS

5.1 SUMMARY

From a geotechnical viewpoint, the project is feasible provided the concerns listed below are addressed in the project design. Descriptions of each concern with brief outlines of our recommendations follow the listed concerns.

- Presence of loose surficial soil and undocumented fill
- Soil corrosion potential

5.1.1 Loose Surficial Soil and Undocumented Fill

As discussed, the site has been previously tilled. In addition, approximately 1½ to 2 feet of undocumented fill was identified in our explorations. To mitigate the loose surficial soils and undocumented fill, they should be replaced as engineered fill for the portion within building areas and to a lateral distance of at least 5 feet beyond the building footprint or to a lateral distance equal to fill depth below the perimeter footing, whichever is greater. In addition, due to the upper loose tilled soil zone, we recommend the upper approximately 12 inches of soil be over-excavated and re-compacted prior to placing new fill in in parking areas and in building areas where undocumented fill is shallow or not encountered. The exposed subgrade should also be prepared and compacted prior to replacing the 12 inches of loose soils. Provided the fills meet the "Material for Fill" requirements below, the fills may be reused when backfilling the excavations. Based on review of the samples collected from our borings, it appears that the fill may be reused. If materials are encountered that do not meet the requirements, such as debris, wood, trash, those materials should be screened out of the remaining material and be removed from the site. Backfill of excavations should be placed in lifts and compacted in accordance with the "Compaction" section below.

Provided undocumented fills are mitigated by removal and replacement as engineered fill, the potential impact due to undocumented fill should be low. Additional test pits may be performed during mass grading to better evaluated the loose soils/undocumented fill depths and lateral limits.

5.1.2 Soil Corrosion Potential

As discussed, we performed a preliminary corrosion screening based on the results of analytical tests on samples of the near-surface soil. Testing on these samples indicate sulfate exposure is low and therefore sulfate resistant concrete is not required per ACI guidelines. Additionally, corrosion potential for buried metallic structures, such as metal pipes, is considered moderately corrosive. Based on the results of the preliminary soil corrosion screening, special requirements for corrosion control will likely be required to protect metal pipes if metal material is planned for the improvements. We recommend the structural engineer and corrosion engineer review the results, provide additional recommendations, and perform additional testing as necessary for the proposed site development.

5.2 PLANS AND SPECIFICATIONS REVIEW

We recommend that we be retained to review the geotechnical aspects of the project structural, civil, and landscape plans and specifications, allowing sufficient time to provide the design team with any comments prior to issuing the plans for construction.

5.3 CONSTRUCTION OBSERVATION AND TESTING

As site conditions may vary significantly between the small-diameter borings performed during this investigation, we also recommend that a Cornerstone representative be present to provide geotechnical observation and testing during earthwork and foundation construction. This will

allow us to form an opinion and prepare a letter at the end of construction regarding contractor compliance with project plans and specifications, and with the recommendations in our report. We will also be allowed to evaluate any conditions differing from those encountered during our investigation and provide supplemental recommendations as necessary. For these reasons, the recommendations in this report are contingent of Cornerstone providing observation and testing during construction. Contractors should provide at least a 48-hour notice when scheduling our field personnel.

SECTION 6: EARTHWORK

6.1 SITE DEMOLITION

All existing improvements not to be reused for the current development, including all foundations, flatwork, pavements, utilities, and other improvements should be demolished and removed from the site. Recommendations in this section apply to the removal of these improvements, which may be present on the site, prior to the start of mass grading or the construction of new improvements for the project. We do not anticipate any existing foundations, flatwork and pavements will be encountered during demolition. If any are encountered during demolition, we should be notified to provide additional recommendations, as needed.

Cornerstone should be notified prior to the start of demolition and should be present on at least a part-time basis during all backfill and mass grading as a result of demolition. Occasionally, other types of buried structures (wells, cisterns, debris pits, etc.) can be found on sites with prior development. If encountered, Cornerstone should be contacted to address these types of structures on a case-by-case basis.

6.1.1 Abandonment of Existing Utilities

All utilities should be completely removed from within planned building areas. For any utility line to be considered acceptable to remain within building areas, the utility line must be completely backfilled with grout or sand-cement slurry (sand slurry is not acceptable), the ends outside the building area capped with concrete, and the trench fills either removed and replaced as engineered fill with the trench side slopes flattened to at least 1:1, or the trench fills are determined not to be a risk to the structure. The assessment of the level of risk posed by the particular utility line will determine whether the utility may be abandoned in place or needs to be completely removed. The contractor should assume that all utilities will be removed from within building areas unless provided written confirmation from both the owner and the geotechnical engineer.

Utilities extending beyond the building area may be abandoned in place provided the ends are plugged with concrete, they do not conflict with planned improvements, and that the trench fills do not pose significant risk to the planned surface improvements.

The risk for owners associated with abandoning utilities in place include the potential for future differential settlement of existing trench fills, and/or partial collapse and potential ground loss into utility lines that are not completely filled with grout.

6.2 SITE CLEARING AND PREPARATION

6.2.1 Site Stripping

The site should be stripped of all surface vegetation, and surface and subsurface improvements to be removed within the proposed development area. Demolition of existing improvements is discussed in the prior paragraphs. A detailed discussion of removal of existing fills is provided later in this report. Surface vegetation and topsoil should be stripped to a sufficient depth to remove all material greater than 3 percent organic content by weight.

6.2.2 Tree and Shrub Removal

Trees and shrubs designated for removal should have the root balls and any roots greater than ½-inch diameter removed completely. Mature trees are estimated to have root balls extending to depths of 2 to 4 feet, depending on the tree size. Significant root zones are anticipated to extend to the diameter of the tree canopy. Grade depressions resulting from root ball removal should be cleaned of loose material and backfilled in accordance with the recommendations in the "Compaction" section of this report.

6.3 MITIGATION OF UNDOCUMENTED FILLS AND SHALLOW SOIL RE-COMPACTION

The site has historically been tilled for weed control and/or agricultural uses and the upper 12 inches of near-surface soils are not likely suitable to support new foundations and pavements. Therefore, we recommend the upper 12 inches of soil be over-excavated within the proposed building footprint and to a lateral distance of at least 5 feet beyond the building footprint. The bottom of the excavation should then be cross-scarified to a depth of 12 inches, moisture conditioned, and re-compacted prior to placing any new fill in the building pad area. If the new buildings will be constructed on a cut that extends at least 12 inches below current site grades, then exposed soils in the building pad cut should be scarified to a depth of 12 inches, moisture conditioned, and re-compacted prior to constructing the slab-on-grade.

As previously discussed, our borings generally encountered about 1½ to 2 feet of undocumented fill across the site. All undocumented fills should be completely removed from within building areas and to a lateral distance of at least 5 feet beyond the building footprint or to a lateral distance equal to fill depth below the perimeter footing, whichever is greater. Provided the fills meet the "Material for Fill" requirements below, the fills may be reused when backfilling the excavations. Based on review of the samples collected from our borings, it appears that the fill may be reused. If materials are encountered that do not meet the requirements, such as debris, wood, trash, those materials should be screened out of the remaining material and be removed from the site. Backfill of excavations should be placed in lifts and compacted in accordance with the "Compaction" section below.

Fills extending into planned pavement and flatwork areas may be left in place provided they are determined to be a low risk for future differential settlement and that the upper 12 to 18 inches of fill below pavement subgrade is re-worked and compacted as discussed in the “Compaction” section below.

6.4 TEMPORARY CUT AND FILL SLOPES

The contractor is responsible for maintaining all temporary slopes and providing temporary shoring where required. Temporary shoring, bracing, and cuts/fills should be performed in accordance with the strictest government safety standards. On a preliminary basis, the upper 10 feet at the site may be classified as OSHA Soil Type C materials. A Cornerstone representative should be retained to confirm the preliminary site classification.

Excavations performed during site demolition and fill removal should be sloped at 3:1 (horizontal:vertical) within the upper 5 feet below building subgrade. Actual excavation inclinations should be reviewed in the field during construction, as needed. Excavations below building subgrade and excavations in pavement and flatwork areas should be sloped in accordance with OSHA soil classification requirements.

6.5 SUBGRADE PREPARATION

After site clearing and demolition is complete, and prior to backfilling any excavations resulting from fill removal or demolition, the excavation subgrade and subgrade within areas to receive additional site fills, slabs-on-grade and/or pavements should be scarified to a depth of [6/12] inches, moisture conditioned, and compacted in accordance with the “Compaction” section below.

Due to the sandy soils likely to be encountered at the subgrade elevation, we recommend that subgrade compaction and proof rolling be performed within 24 hours of capillary break layer or slab-on-grade construction.

6.6 WET SOIL STABILIZATION GUIDELINES

Native soil and fill materials, especially soils with high fines contents such as clays and silty soils, can become unstable due to high moisture content, whether from high in-situ moisture contents or from winter rains. As the moisture content increases over the laboratory optimum, it becomes more likely the materials will be subject to softening and yielding (pumping) from construction loading or become unworkable during placement and compaction.

There are several methods to address potential unstable soil conditions and facilitate fill placement and trench backfill. Some of the methods are briefly discussed below. Implementation of the appropriate stabilization measures should be evaluated on a case-by-case basis according to the project construction goals and the site conditions.

6.6.1 Scarification and Drying

The subgrade may be scarified to a depth of 6 to 8 inches and allowed to dry to near optimum conditions, if sufficient dry weather is anticipated to allow sufficient drying. More than one round of scarification may be needed to break up the soil clods.

6.6.2 Removal and Replacement

As an alternative to scarification, the contractor may choose to over-excavate the unstable soils and replace them with dry on-site or import materials. A Cornerstone representative should be present to provide recommendations regarding the appropriate depth of over-excavation, whether a geosynthetic (stabilization fabric or geogrid) is recommended, and what materials are recommended for backfill.

6.6.3 Chemical Treatment

Where the unstable area exceeds about 5,000 to 10,000 square feet and/or site winterization is desired, chemical treatment with quicklime (CaO), kiln-dust, or cement may be more cost-effective than removal and replacement. Recommended chemical treatment depths will typically range from 12 to 18 inches depending on the magnitude of the instability.

6.7 MATERIAL FOR FILL

6.7.1 Re-Use of On-site Soils

On-site soils with an organic content less than 3 percent by weight may be reused as general fill. General fill should not have lumps, clods or cobble pieces larger than 6 inches in diameter; 85 percent of the fill should be smaller than 2½ inches in diameter. Minor amounts of oversize material (smaller than 12 inches in diameter) may be allowed provided the oversized pieces are not allowed to nest together and the compaction method will allow for loosely placed lifts not exceeding 12 inches.

6.7.2 Potential Import Sources

Import material should be inorganic with a Plasticity Index (PI) of 15 or less, and not contain recycled asphalt concrete where it will be used within the habitable building areas. To prevent significant caving during trenching or foundation construction, imported material should have sufficient fines. Samples of potential import sources should be delivered to our office at least 10 days prior to the desired import start date. Information regarding the import source should be provided, such as any site geotechnical reports. If the material will be derived from an excavation rather than a stockpile, potholes will likely be required to collect samples from throughout the depth of the planned cut that will be imported. At a minimum, laboratory testing will include PI tests. Material data sheets for select fill materials (Class 2 aggregate base, ¾-inch crushed rock, quarry fines, etc.) listing current laboratory testing data (not older than 6 months from the import date) may be provided for our review without providing a sample. If current data is not available, specification testing will need to be completed prior to approval.

Environmental and soil corrosion characterization should also be considered by the project team prior to acceptance. Suitable environmental laboratory data to the planned import quantity should be provided to the project environmental consultant; additional laboratory testing may be required based on the project environmental consultant's review. The potential import source should also not be more corrosive than the on-site soils, based on pH, saturated resistivity, and soluble sulfate and chloride testing.

6.8 COMPACTION REQUIREMENTS

All fills, and subgrade areas where fill, slabs-on-grade, and pavements are planned, should be placed in loose lifts 8 inches thick or less and compacted in accordance with ASTM D1557 (latest version) requirements as shown in the table below. In general, clayey soils should be compacted with sheepsfoot equipment and sandy/gravelly soils with vibratory equipment; open-graded materials such as crushed rock should be placed in lifts no thicker than 18 inches and consolidated in place with vibratory equipment. Each lift of fill and all subgrade should be firm and unyielding under construction equipment loading in addition to meeting the compaction requirements to be approved. The contractor (with input from a Cornerstone representative) should evaluate the in-situ moisture conditions, as the use of vibratory equipment on soils with high moistures can cause unstable conditions. General recommendations for soil stabilization are provided in the "Wet Soil Stabilization Guidelines" section of this report.

Table 3: Compaction Requirements

Description	Material Description	Minimum Relative[1] Compaction (percent)	Moisture[2] Content (percent)
General Fill (within upper 5 feet)	On-Site Soils	90	>1
General Fill (below a depth of 5 feet)	On-Site Soils	95	>1
Trench Backfill	On-Site Soils	90	>1
Trench Backfill (upper 6 inches of subgrade)	On-Site Soils	95	>1
Crushed Rock Fill	¾-inch Clean Crushed Rock	Consolidate In-Place	NA
Non-Expansive Fill	Imported Non-Expansive Fill	90	Optimum
Flatwork Subgrade	On-Site Soils	90	>1
Flatwork Aggregate Base	Class 2 Aggregate Base[3]	90	Optimum
Pavement Subgrade	On-Site Soils	95	>1
Pavement Aggregate Base	Class 2 Aggregate Base[3]	95	Optimum
Asphalt Concrete	Asphalt Concrete	95 (Marshall)	NA

1 – Relative compaction based on maximum density determined by ASTM D1557 (latest version)
2 – Moisture content based on optimum moisture content determined by ASTM D1557 (latest version)
3 – Class 2 aggregate base shall conform to Caltrans Standard Specifications, latest edition, except that the relative compaction should be determined by ASTM D1557 (latest version)

6.9 TRENCH BACKFILL

Utility lines constructed within public right-of-way should be trenched, bedded and shaded, and backfilled in accordance with the local or governing jurisdictional requirements. Utility lines in private improvement areas should be constructed in accordance with the following requirements unless superseded by other governing requirements.

All utility lines should be bedded and shaded to at least 6 inches over the top of the lines with crushed rock (⅜-inch-diameter or greater) or well-graded sand and gravel materials conforming to the pipe manufacturer's requirements. Open-graded shading materials should be consolidated in place with vibratory equipment and well-graded materials should be compacted to at least 90 percent relative compaction with vibratory equipment prior to placing subsequent backfill materials.

General backfill over shading materials may consist of on-site native materials provided they meet the requirements in the "Material for Fill" section, and are moisture conditioned and compacted in accordance with the requirements in the "Compaction" section.

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

6.10 SITE DRAINAGE

6.10.1 Surface Drainage

Ponding should not be allowed adjacent to building foundations, slabs-on-grade, or pavements. Hardscape surfaces should slope at least 2 percent towards suitable discharge facilities; landscape areas should slope at least 3 percent towards suitable discharge facilities. Roof runoff should be directed away from building areas in closed conduits, to approved infiltration facilities, or on to hardscaped surfaces that drain to suitable facilities. Retention, detention or infiltration facilities should be spaced at least 10 feet from buildings, and preferably at least 5 feet from slabs-on-grade or pavements. However, if retention, detention or infiltration facilities are located within these zones, we recommend that these treatment facilities meet the requirements in the Storm Water Treatment Design Considerations section of this report.

6.11 LOW-IMPACT DEVELOPMENT (LID) IMPROVEMENTS

The Municipal Regional Permit (MRP) requires regulated projects to treat 100 percent of the amount of runoff identified in Provision C.3.d from a regulated project's drainage area with low

impact development (LID) treatment measures onsite or at a joint stormwater treatment facility. LID treatment measures are defined as rainwater harvesting and use, infiltration, evapotranspiration, or biotreatment. A biotreatment system may only be used if it is infeasible to implement harvesting and use, infiltration, or evapotranspiration at a project site.

Technical infeasibility of infiltration may result from site conditions that restrict the operability of infiltration measures and devices. Various factors affecting the feasibility of infiltration treatment may create an environmental risk, structural stability risk, or physically restrict infiltration. The presence of any of these limiting factors may render infiltration technically infeasible for a proposed project. To aid in determining if infiltration may be feasible at the site, we provide the following site information regarding factors that may aid in determining the feasibility of infiltration facilities at the site.

- The near-surface soils at the site are highly variable and categorized as Hydrologic Soil Group B to D, and is expected to have variable infiltration rates. Our upcoming stormwater infiltration tests will provide additional infiltration rate information.

- Locally, seasonal high ground water is mapped at a depth of 35 to 55 feet, and therefore is expected to be at least 10 feet below the base of the infiltration measure.

6.11.1 Storm Water Treatment Design Considerations

If storm water treatment improvements, such as shallow bio-retention swales, basins or pervious pavements, are required as part of the site improvements to satisfy Storm Water Quality (C.3) requirements, we recommend the following items be considered for design and construction.

6.11.1.1 General Bioswale Design Guidelines

- If possible, avoid placing bioswales or basins within 10 feet of the building perimeter or within 5 feet of exterior flatwork or pavements. If bioswales must be constructed within these setbacks, the side(s) and bottom of the trench excavation should be lined with 10-mil visqueen to reduce water infiltration into the surrounding expansive clay.

- Bioswales constructed within 3 feet of proposed buildings may be within the foundation zone of influence for perimeter wall loads. Therefore, where bioswales will parallel foundations and will extend below the “foundation plane of influence,” an imaginary 1:1 plane projected down from the bottom edge of the foundation, the foundation will need to be deepened so that the bottom edge of the bioswale filter material is above the foundation plane of influence.

- The bottom of bioswale or detention areas should include a perforated drain placed at a low point, such as a shallow trench or sloped bottom, to reduce water infiltration into the surrounding soils near structural improvements, and to address the low infiltration capacity of the on-site clay soils.

6.11.1.2 Bioswale Infiltration Material

- Gradation specifications for bioswale filter material, if required, should be specified on the grading and improvement plans.

- Compaction requirements for bioswale filter material in non-landscaped areas or in pervious pavement areas, if any, should be indicated on the plans and specifications to satisfy the anticipated use of the infiltration area.

- If bioswales are to be vegetated, the landscape architect should select planting materials that do not reduce or inhibit the water infiltration rate, such as covering the bioswale with grass sod containing a clayey soil base.

- Due to the relatively loose consistency and/or high organic content of many bioswale filter materials, long-term settlement of the bioswale medium should be anticipated. To reduce initial volume loss, bioswale filter material should be wetted in 12-inch lifts during placement to pre-consolidate the material. Mechanical compaction should not be allowed, unless specified on the grading and improvement plans, since this could significantly decrease the infiltration rate of the bioswale materials.

- It should be noted that the volume of bioswale filter material may decrease over time depending on the organic content of the material. Additional filter material may need to be added to bioswales after the initial exposure to winter rains and periodically over the life of the bioswale areas, as needed.

6.11.1.3 Bioswale Construction Adjacent to Pavements

If bio-infiltration swales or basins are considered adjacent to proposed parking lots or exterior flatwork, we recommend that mitigative measures be considered in the design and construction of these facilities to reduce potential impacts to flatwork or pavements. Exterior flatwork, concrete curbs, and pavements located directly adjacent to bio-swales may be susceptible to settlement or lateral movement, depending on the configuration of the bioswale and the setback between the improvements and edge of the swale. To reduce the potential for distress to these improvements due to vertical or lateral movement, the following options should be considered by the project civil engineer:

- Improvements should be setback from the vertical edge of a bioswale such that there is at least 1 foot of horizontal distance between the edge of improvements and the top edge of the bioswale excavation for every 1 foot of vertical bioswale depth, or

- Concrete curbs for pavements, or lateral restraint for exterior flatwork, located directly adjacent to a vertical bioswale cut should be designed to resist lateral earth pressures in accordance with the recommendations in the “Retaining Walls” section of this report, or concrete curbs or edge restraint should be adequately keyed into the native soil or engineered to reduce the potential for rotation or lateral movement of the curbs.

SECTION 7: 2019 CBC SEISMIC DESIGN CRITERIA

7.1 SEISMIC DESIGN CRITERIA

We understand that the project structural design will be based on the 2019 California Building Code (CBC), which provides criteria for the seismic design of buildings in Chapter 16. The "Seismic Coefficients" used to design buildings are established based on a series of tables and figures addressing different site factors, including the time-weighted average shear wave velocity of the top approximately 100 feet (30 meters) of the soil profile (V_{S30}) and mapped spectral acceleration parameters based on distance to the controlling seismic source/fault system.

Shear wave velocity (V_S) measurements were performed while advancing CPT-4, resulting in a time-averaged shear wave velocity of 332 meters per second. Therefore, we have classified the site as Soil Classification D. Because we used site specific data from our explorations and laboratory testing, the site class should be considered as "determined" for the purposes of estimating the seismic design parameters from the code outlined below. The mapped spectral acceleration parameters S_s and S_1 were calculated using the web-based program ATC Hazards by Locations, located at https://hazards.atcouncil.org/, based on the site coordinates presented below and the site classification. Recommended values in Table 4 may only be used for design if in the judgement of the project structural engineer an exception can be taken per ASCE 7-16 Section 11.4.8. Based on our project understanding, we have assumed an exception will be taken. If an exception is not taken we should be contacted immediately to provide a Ground Motion Hazard Analysis in accordance with the 2019 CBC. The table below lists the various factors used to determine the seismic coefficients and other parameters. The coordinates below are for the SMP 39 site; however, we ran the coordinates for SMP 40 and the values are consistent.

Table 4: CBC Site Categorization and Site Coefficients

Classification/Coefficient	Design Value
Site Class	D
Site Latitude	37.67899°
Site Longitude	-121.81140°
0.2-second Period Mapped Spectral Acceleration[1], S_S	1.5g
1-second Period Mapped Spectral Acceleration[1], S_1	0.6g
Short-Period Site Coefficient – Fa	1.0
Long-Period Site Coefficient – Fv	1.7
0.2-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects - S_{MS}	1.5g
1-second Period, Maximum Considered Earthquake Spectral Response Acceleration Adjusted for Site Effects – S_{M1}	1.02g
0.2-second Period, Design Earthquake Spectral Response Acceleration – S_{DS}	1.0g
1-second Period, Design Earthquake Spectral Response Acceleration – S_{D1}	0.68g

SECTION 8: FOUNDATIONS

8.1 SUMMARY OF RECOMMENDATIONS

In our opinion, the proposed structures may be supported on shallow foundations provided the recommendations in the "Earthwork" section and the sections below are followed.

8.2 SHALLOW FOUNDATIONS

8.2.1 Conventional Shallow Footings

Conventional shallow footings should bear on natural, undisturbed soil or engineered fill, and extend at least 12 inches below the lowest adjacent grade. Lowest adjacent grade is defined as the deeper of the following: 1) bottom of the adjacent interior slab-on-grade, or 2) finished exterior grade, excluding landscaping topsoil.

Footings constructed to the above dimensions and in accordance with the "Earthwork" recommendations of this report are capable of supporting maximum allowable bearing pressures of 2,000 psf for dead loads, 3,000 psf for combined dead plus live loads, and 4,000 psf for all loads including wind and seismic. These pressures are based on factors of safety of 3.0, 2.0, and 1.5 applied to the ultimate bearing pressure for dead, dead plus live, and all loads, respectively. These pressures are net values; the weight of the footing may be neglected for the portion of the footing extending below grade (typically, the full footing depth). Top and bottom mats of reinforcing steel should be included in continuous footings to help span irregularities and differential settlement.

8.2.2 Footing Settlement

Structural loads were not provided to us at the time this report was prepared; therefore, we assumed the typical loading in the following table.

Table 5: Assumed Structural Loading

Foundation Area	Range of Assumed Loads
Interior Isolated Column Footing	150 to 175 kips
Exterior Isolated Column Footing	50 to 75 kips
Perimeter Strip Footing	3 to 5 kips per lineal foot

Based on the above loading and the allowable bearing pressures presented above, we estimate that the total static footing settlement will be on the order of ¾-inch or less, with about ½-inch or less of post-construction differential settlement between adjacent foundation elements. In addition we estimate that differential seismic movement will be less than ¼-inch over a horizontal distance of 50 to 60 feet, resulting in a total estimated differential footing movement of ½-inch or less between foundation elements, assumed to be on the order of 50 to 60 feet. As our footing loads were assumed, we recommend we be retained to review the final footing layout and loading, and verify the settlement estimates above.

8.2.3 Lateral Loading

Lateral loads may be resisted by friction between the bottom of footing and the supporting subgrade, and also by passive pressures generated against footing sidewalls. An ultimate frictional resistance of 0.35 applied to the footing dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 350 pcf may be used in design. The structural engineer should apply an appropriate factor of safety (such as 1.5) to the ultimate values above. Where footings are adjacent to landscape areas without hardscape, the upper 12 inches of soil should be neglected when determining passive pressure capacity.

8.2.4 Conventional Shallow Footing Construction Considerations

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.
Footing excavations should be filled as soon as possible or be kept moist until concrete placement by regular sprinkling to prevent desiccation. A Cornerstone representative should observe all footing excavations prior to placing reinforcing steel and concrete. If there is a

significant schedule delay between our initial observation and concrete placement, we may need to re-observe the excavations.

Due to the presence of clean sand and gravel, footing excavation walls will likely not stand vertical and will need to be sloped to a minimum 1:1 inclination or Stay-Form or similar may need to be placed within the footing excavations as they are excavated during construction of the foundation elements. Granular material encountered in the footing bottoms will likely be disturbed to a depth of 6 to 8 inches following excavation and will need to be compacted to 90 percent relative compaction prior to steel placement. Care should be taken to not disturb the compacted granular material during steel placement. We should re-observe the footing excavations in granular materials after reinforcing steel has been placed and just prior to concrete placement. Footing excavations should also be kept moist by regular sprinkling with water to prevent desiccation and potential raveling of the granular materials. As an alternative, a rat slab can be placed over the granular material after we have observed the footing excavation to protect the granular material prior to steel placement.

SECTION 9: CONCRETE SLABS AND PEDESTRIAN PAVEMENTS

9.1 INTERIOR SLABS-ON-GRADE

As the Plasticity Index (PI) of the surficial soils is 15 or less, the proposed slabs-on-grade may be supported directly on subgrade prepared in accordance with the recommendations in the "Earthwork" section of this report. If moisture-sensitive floor coverings are planned, the recommendations in the "Interior Slabs Moisture Protection Considerations" section below may be incorporated in the project design if desired. If significant time elapses between initial subgrade preparation and slab-on-grade construction, the subgrade should be proof-rolled to confirm subgrade stability, and if the soil has been allowed to dry out, the subgrade should be re-moisture conditioned to near optimum moisture content.

The structural engineer should determine the appropriate slab reinforcement for the loading requirements and considering the expansion potential of the underlying soils. For unreinforced concrete slabs, ACI 302.1R recommends limiting control joint spacing to 24 to 36 times the slab thickness in each direction, or a maximum of 18 feet.

9.2 WAREHOUSE SLABS-ON-GRADE

Warehouse slabs-on-grade should be at least 6 inches thick should have a minimum compressive strength of 3,500 psi, and should be designed for the specific warehouse loading (i.e. Forklifts, rack loads, etc.). At this time, rack loading information, etc. was not available. The slab should also be designed to accommodate potential slab settlement beneath heavily loaded slab areas. We recommend we be retained to review the final heavily loaded areas (i.e. rack loading) layout and loading and provide estimated settlements. The warehouse slab should also be supported on at least 6 inches of non-expansive, crushed granular base having an R-value of at least 50 and no more than 10 percent passing the No. 200 sieve, such as Class 2 aggregate base. All base and sub-base materials should be placed and compacted in accordance with the "Compaction" section of this report. If there will be areas within the

warehouse that are moisture sensitive, such as equipment and elevator rooms, a vapor barrier may be placed over the upper granular base prior to slab construction. Please refer to the recommendations in the "Interior Slabs Moisture Protection Considerations" section for vapor barrier construction. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

9.3 INTERIOR SLABS MOISTURE PROTECTION CONSIDERATIONS

The following general guidelines for concrete slab-on-grade construction where floor coverings are planned are presented for the consideration by the developer, design team, and contractor. These guidelines are based on information obtained from a variety of sources, including the American Concrete Institute (ACI) and are intended to reduce the potential for moisture-related problems causing floor covering failures, and may be supplemented as necessary based on project-specific requirements. The application of these guidelines or not will not affect the geotechnical aspects of the slab-on-grade performance.

- Place a minimum 15-mil vapor retarder conforming to ASTM E 1745, Class C requirements or better directly below the concrete slab; the vapor retarder should extend to the slab edges and be sealed at all seams and penetrations in accordance with manufacturer's recommendations and ASTM E 1643 requirements. A 4-inch-thick capillary break, consisting of crushed rock should be placed below the vapor retarder and consolidated in place with vibratory equipment. The mineral aggregate shall be of such size that the percentage composition by dry weight as determined by laboratory sieves will conform to the following gradation:

Sieve Size	Percentage Passing Sieve
1"	100
¾"	90 – 100
No. 4	0 – 10
No. 200	0 – 5

- The concrete water:cement ratio should be 0.45 or less. Mid-range plasticizers may be used to increase concrete workability and facilitate pumping and placement.

- Water should not be added after initial batching unless the slump is less than specified and/or the resulting water:cement ratio will not exceed 0.45.

- Polishing the concrete surface with metal trowels is not recommended.

- Where floor coverings are planned, all concrete surfaces should be properly cured.

- Water vapor emission levels and concrete pH should be determined in accordance with ASTM F1869-98 and F710-98 requirements and evaluated against the floor covering manufacturer's requirements prior to installation.

9.4 EXTERIOR FLATWORK

9.4.1 Pedestrian Concrete Flatwork

Exterior concrete flatwork subject to pedestrian and/or occasional light pick up loading should be at least 4 inches thick and supported on at least 4 inches of Class 2 aggregate base overlying subgrade prepared in accordance with the "Earthwork" recommendations of this report. Flatwork that will be subject to heavier or frequent vehicular loading should be designed in accordance with the recommendations in the "Vehicular Pavements" section below. To help reduce the potential for uncontrolled shrinkage cracking, adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness. Flatwork should be isolated from adjacent foundations or retaining walls except where limited sections of structural slabs are included to help span irregularities in retaining wall backfill at the transitions between at-grade and on-structure flatwork.

SECTION 10: VEHICULAR PAVEMENTS

10.1 ASPHALT CONCRETE

The following asphalt concrete pavement recommendations tabulated below are based on the Procedure 608 of the Caltrans Highway Design Manual, estimated traffic indices for various pavement-loading conditions, and on a design R-value of 10. The design R-value was chosen based on engineering judgement considering the variable and expansive soil conditions. If desired, we can perform supplemental R-value laboratory testing to potentially increase the design R-value and reduce pavement design thickness. Additionally, we have also included an option for chemical-treated subgrade soils using an estimated design R-value of 50.

Table 6: Asphalt Concrete Pavement Recommendations (Untreated Subgrade)

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base[1] (inches)	Total Pavement Section Thickness (inches)
4.0	2.5	7.0	9.5
4.5	2.5	8.5	11.0
5.0	3.0	9.0	12.0
5.5	3.0	11.0	14.0
6.0	3.5	11.5	15.0
6.5	4.0	13.0	17.0
7.0	4.0	14.5	18.5
7.5	4.5	15.5	20.0
8.0	5.0	16.0	21.0
8.5	5.0	18.0	23.0
9.0	5.5	19.0	24.5
9.5	6.0	20.0	26.0
10.0	6.5	21.0	27.5
10.5	6.5	23.0	29.5
11.0	7.0	24.0	31.0

[1]Caltrans Class 2 aggregate base; minimum R-value of 78

Table 7: Asphalt Concrete Pavement Recommendations (Chemical-Treated Subgrade)

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base[1] (inches)	Total Pavement Section Thickness (inches)
4.0/4.5	2.5	4.0	6.5
5.0/5.5	3.0	4.0	7.0
6.0	3.5	4.0	7.5
6.5	4.0	4.0	8.0
7.0	4.0	4.5	8.5
7.5	4.5	5.0	9.5
8.0	5.0	5.0	10.0
8.5	5.0	6.5	11.5
9.0	5.5	6.5	12.0
9.5	6.0	7.0	13.0
10.0	6.0	8.0	14.0
10.5	6.5	8.5	15.0
11.0	7.0	8.5	15.5

[1]Caltrans Class 2 aggregate base with minimum R-value of 78; subgrade R-value of 50 assuming 12-inch-thick subgrade chemical treatment

Frequently, the full asphalt concrete section is not constructed prior to construction traffic loading. This can result in significant loss of asphalt concrete layer life, rutting, or other pavement failures. To improve the pavement life and reduce the potential for pavement distress through construction, we recommend the full design asphalt concrete section be constructed prior to construction traffic loading. Alternatively, a higher traffic index may be chosen for the areas where construction traffic will use the pavements.

Due to the variability of the near surface soils, we recommend that additional R-value testing be performed on samples of the final subgrade soils to confirm the preliminary pavement design.

10.2 PORTLAND CEMENT CONCRETE

The exterior Portland Cement Concrete (PCC) pavement recommendations tabulated below are based on methods presented in “Concrete Pavement for Trucking Facilities” by the American Concrete Pavement Association (ACPA, 1995), and the Portland Cement Association (PCA) design manual (PCA, 1984). In our opinion, the truck loading areas where trucks turn, brake, or stop should be constructed of reinforced Portland Cement Concrete (PCC) pavement. We have provided a few pavement alternatives below as the anticipated number of trucks and number of load repetitions per day on a given location of the pavement has not been provided at this time. An alternative should be chosen that is greater than what is expected for the development. At this time, we have assumed trucks will consist of tractor trailers. When more specific truck loading information is available, additional information can be provided.

Table 8: PCC Pavement Recommendations (Untreated Subgrade)

Traffic Category	Minimum PCC Thickness[1] (inches)
Trucks per day per lane = 20	7.0
Trucks per day per lane = 80	7.5
Trucks per day per lane = 400	8.0

1 – Subgrade design R-Value = 5

The PCC thickness recommended above are based on a concrete flexural strength of at least 550 psi, minimum 28-day compressive strength of 4,000 psi, and supporting the PCC on at least 6 inches of Class 2 aggregate base compacted to a minimum relative compaction of 95 percent (ASTM D1557) as recommended in the "Earthwork" section of our report, and laterally restraining the PCC with curbs or concrete shoulders. The aggregate base should be constructed over compacted subgrade prepared in accordance with "Compaction" section of this report. The PCC should have a low water-cement ratio (industry standards), and in no case exceed a water-cement plus pozzolan ratio of 0.53.

Adequate expansion and control joints should be included. Joint spacing should not exceed about 24 times the pavement thickness, in approximately square panels for unreinforced concrete. Joint spacing can be increased somewhat for reinforced concrete where light reinforcing steel is provided to help hold together intermediate cracks that may form in panels. Construction and expansion joints, and dowels, should be designed in accordance with industry standards.

If the subgrade soils are to be chemically treated (e.g. cement), we have provided some pavement alternatives below. For chemically treated subgrade, we recommend the upper 12 inches of subgrade soil be treated and the treated subgrade should obtain a minimum R-value of 50. If chemical treatment of the subgrade is performed, the underlying Class 2 aggregate base section may be reduced from 6 inches to 4 inches, provided it is compacted to a minimum relative compaction of 95 percent (ASTM D1557) as recommended in the "Earthwork" section of our report. Additional testing will need to be performed to determine the appropriate lime/cement percentage to be mixed with the subgrade soil to achieve an estimated R-value of 50. The remaining design and construction details should be consistent with the above recommendations for PCC pavements over untreated subgrade.

Table 9: PCC Pavement Recommendations (Chemical-Treated Subgrade)

Traffic Category	Minimum PCC Thickness[1] (inches)
Trucks per day per lane = 20	6.5
Trucks per day per lane = 80	7.0
Trucks per day per lane = 400	7.5

1 – Subgrade design R-Value = 50

10.2.1 Stress Pads for Trash Enclosures

Pads where trash containers will be stored, and where garbage trucks will park while emptying trash containers, should be constructed on Portland Cement Concrete. We recommend that the trash enclosure pads and stress (landing) pads where garbage trucks will store, pick up, and empty trash be increased to a minimum PCC thickness of 7 inches. The compressive strength, underlayment, and construction details should be consistent with the above recommendations for PCC pavements.

10.3 PAVEMENT CUTOFF

Surface water penetration into the pavement section can significantly reduce the pavement life, due to the native expansive clays. While quantifying the life reduction is difficult, a normal 20-year pavement design could be reduced to less than 10 years; therefore, increased long-term maintenance may be required.

It would be beneficial to include a pavement cut-off, such as deepened curbs, redwood-headers, or “Deep-Root Moisture Barriers” that are keyed at least 4 inches into the pavement subgrade. This will help limit the additional long-term maintenance.

SECTION 11: RETAINING WALLS

11.1 STATIC LATERAL EARTH PRESSURES

The structural design of any site retaining wall should include resistance to lateral earth pressures that develop from the soil behind the wall, any undrained water pressure, and surcharge loads acting behind the wall. Provided a drainage system is constructed behind the wall to prevent the build-up of hydrostatic pressures as discussed in the section below, we recommend that the walls with level backfill be designed for the following pressures:

Table 10: Recommended Lateral Earth Pressures

Wall Condition	Lateral Earth Pressure*	Additional Surcharge Loads
Unrestrained – Cantilever Wall	45 pcf	⅓ of vertical loads at top of wall
Restrained – Braced Wall	45 pcf + 8H** psf	½ of vertical loads at top of wall

* Lateral earth pressures are based on an equivalent fluid pressure for level backfill conditions
** H is the distance in feet between the bottom of footing and top of retained soil

If adequate drainage cannot be provided behind the wall, an additional equivalent fluid pressure of 40 pcf should be added to the values above for both restrained and unrestrained walls for the portion of the wall that will not have drainage. Damp proofing or waterproofing of the walls may be considered where moisture penetration and/or efflorescence are not desired.

11.2 SEISMIC LATERAL EARTH PRESSURES

11.2.1 Site Walls

The 2019 CBC states that lateral pressures from earthquakes should be considered in the design of basements and retaining walls. At this time, we are not aware of any retaining walls for the project. However, minor landscaping walls (i.e. walls 6 feet or less in height) may be proposed. In our opinion, design of these walls for seismic lateral earth pressures in addition to static earth pressures is not warranted.

11.3 WALL DRAINAGE

11.3.1 At-Grade Site Walls

Adequate drainage should be provided by a subdrain system behind all walls. This system should consist of a 4-inch minimum diameter perforated pipe placed near the base of the wall (perforations placed downward). The pipe should be bedded and backfilled with Class 2 Permeable Material per Caltrans Standard Specifications, latest edition. The permeable backfill should extend at least 12 inches out from the wall and to within 2 feet of outside finished grade. Alternatively, ½-inch to ¾-inch crushed rock may be used in place of the Class 2 Permeable Material provided the crushed rock and pipe are enclosed in filter fabric, such as Mirafi 140N or approved equivalent. The upper 2 feet of wall backfill should consist of compacted on-site soil. The subdrain outlet should be connected to a free-draining outlet or sump.

Miradrain, Geotech Drainage Panels, or equivalent drainage matting can be used for wall drainage as an alternative to the Class 2 Permeable Material or drain rock backfill. Horizontal strip drains connecting to the vertical drainage matting may be used in lieu of the perforated pipe and crushed rock section. The vertical drainage panel should be connected to the perforated pipe or horizontal drainage strip at the base of the wall, or to some other closed or through-wall system such as the TotalDrain system from AmerDrain. Sections of horizontal drainage strips should be connected with either the manufacturer's connector pieces or by pulling back the filter fabric, overlapping the panel dimples, and replacing the filter fabric over

the connection. At corners, a corner guard, corner connection insert, or a section of crushed rock covered with filter fabric must be used to maintain the drainage path.

Drainage panels should terminate 18 to 24 inches from final exterior grade. The Miradrain panel filter fabric should be extended over the top of and behind the panel to protect it from intrusion of the adjacent soil.

11.4 BACKFILL

Where surface improvements will be located over the retaining wall backfill, backfill placed behind the walls should be compacted to at least 95 percent relative compaction using light compaction equipment. Where no surface improvements are planned, backfill should be compacted to at least 90 percent. If heavy compaction equipment is used, the walls should be temporarily braced.

11.5 FOUNDATIONS

Retaining walls may be supported on a continuous and or spread footing designed in accordance with the recommendations presented in the "Foundations" section of this report.

SECTION 12: LIMITATIONS

This report, an instrument of professional service, has been prepared for the sole use of Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC specifically to support the design of the Oaks Business Park and Jack London Boulevard (SMP 39 and 40) project in Livermore, California. The opinions, conclusions, and recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in Northern California at the time this report was prepared. No warranty, expressed or implied, is made or should be inferred.

Recommendations in this report are based upon the soil and ground water conditions encountered during our subsurface exploration. If variations or unsuitable conditions are encountered during construction, Cornerstone must be contacted to provide supplemental recommendations, as needed.

Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC may have provided Cornerstone with plans, reports and other documents prepared by others. Livermore Industrial Partners 39 LLC and Livermore Industrial Partners 40 LLC understands that Cornerstone reviewed and relied on the information presented in these documents and cannot be responsible for their accuracy.

Cornerstone prepared this report with the understanding that it is the responsibility of the owner or his representatives to see that the recommendations contained in this report are presented to other members of the design team and incorporated into the project plans and specifications, and that appropriate actions are taken to implement the geotechnical recommendations during construction.

Conclusions and recommendations presented in this report are valid as of the present time for the development as currently planned. Changes in the condition of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Therefore, the conclusions and recommendations presented in this report may be invalidated, wholly or in part, by changes beyond Cornerstone's control. This report should be reviewed by Cornerstone after a period of three (3) years has elapsed from the date of this report. In addition, if the current project design is changed, then Cornerstone must review the proposed changes and provide supplemental recommendations, as needed.

An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity.

Recommendations provided in this report are based on the assumption that Cornerstone will be retained to provide observation and testing services during construction to confirm that conditions are similar to that assumed for design, and to form an opinion as to whether the work has been performed in accordance with the project plans and specifications. If we are not retained for these services, Cornerstone cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of Cornerstone's report by others. Furthermore, Cornerstone will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services.

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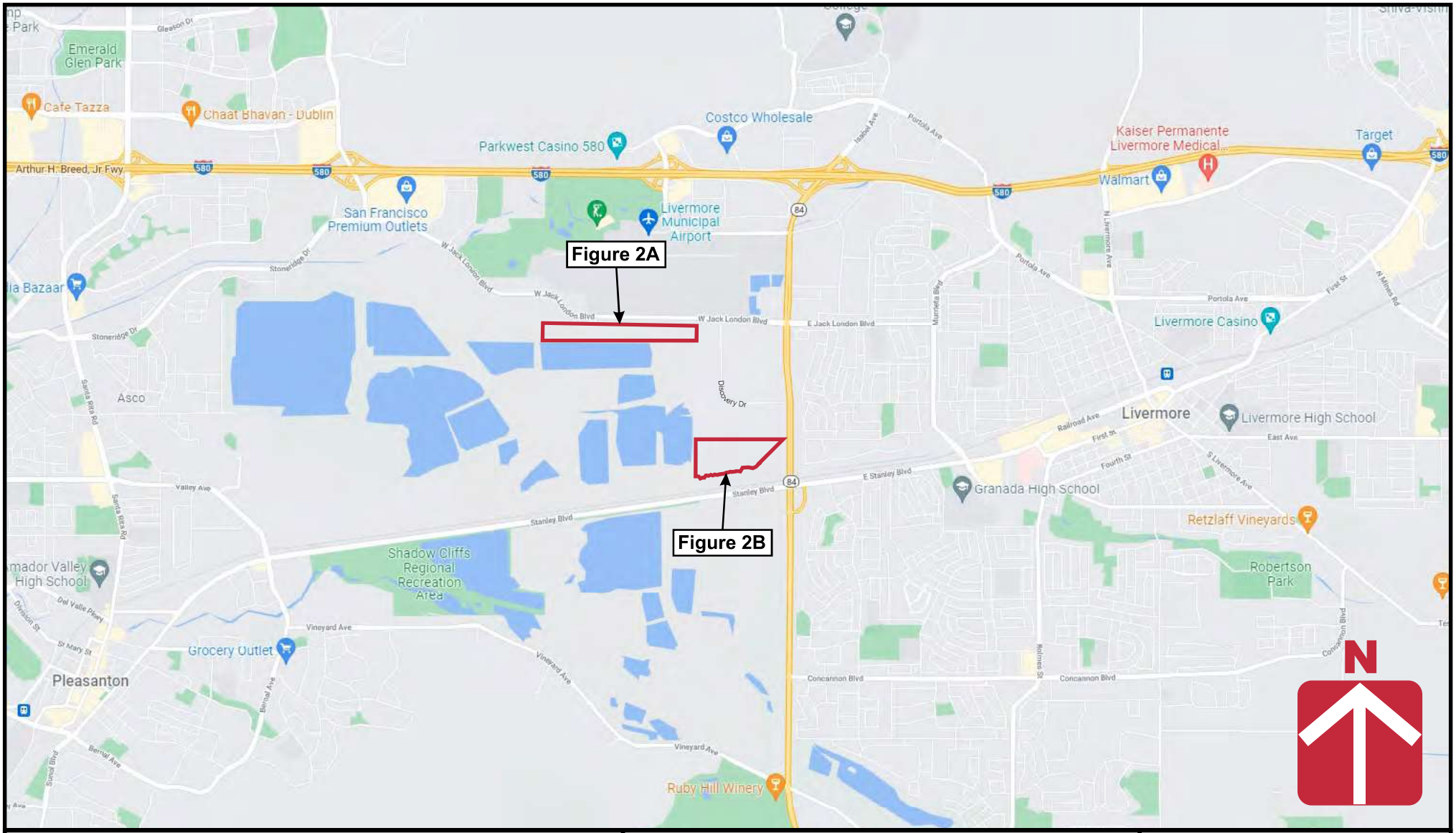

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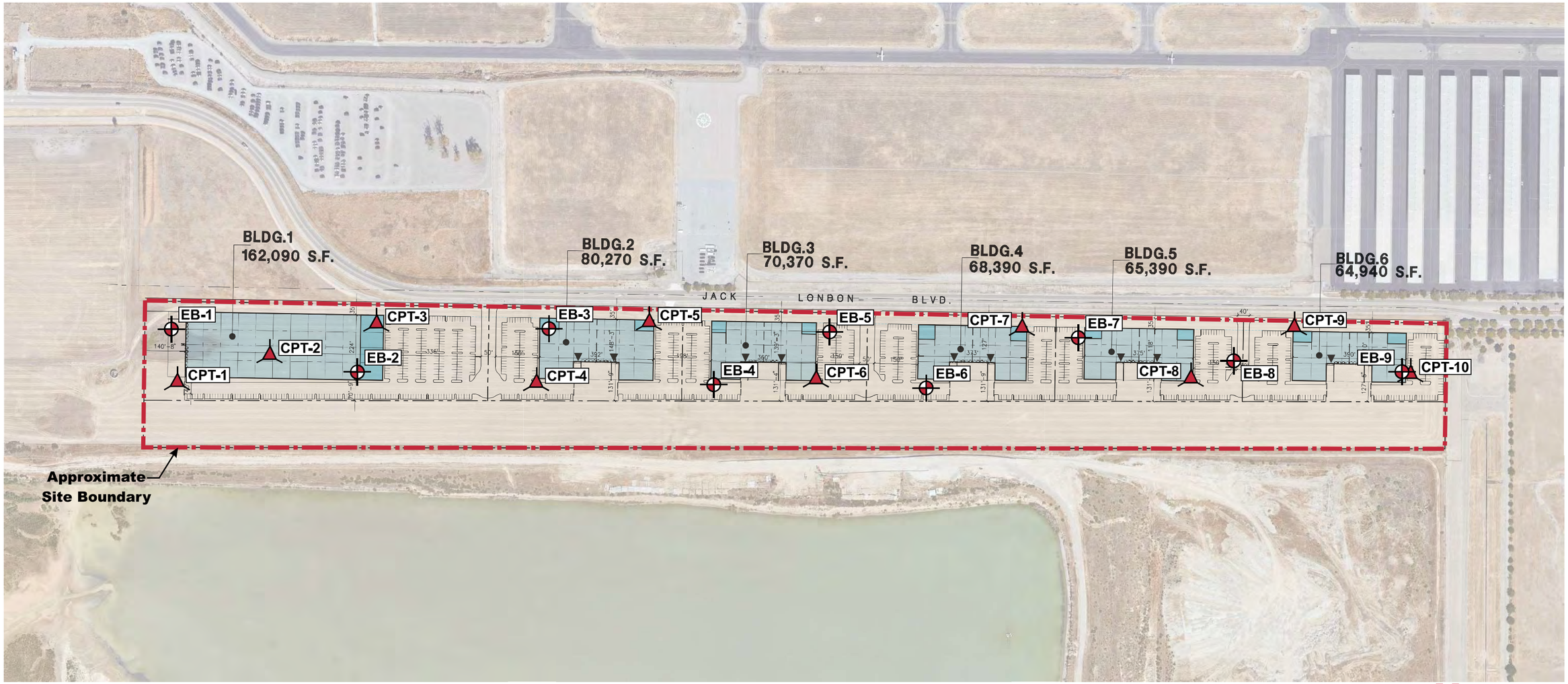
Vicinity Map

The Oaks Business Park
Livermore, CA

Project Number	681-7-1
Figure Number	Figure 1
Date	November 2021
Drawn By	RRN



Legend

Approximate location of exploratory boring (EB)

Approximate location of cone penetration test (CPT)

N

0 350 700

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 08/10/2020
Overlay by HPA Architecture, Conceptual Site Plan,
Jack London Blvd. - Scheme 4, dated 08/23/2021

CORNERSTONE EARTH GROUP

Site Plan

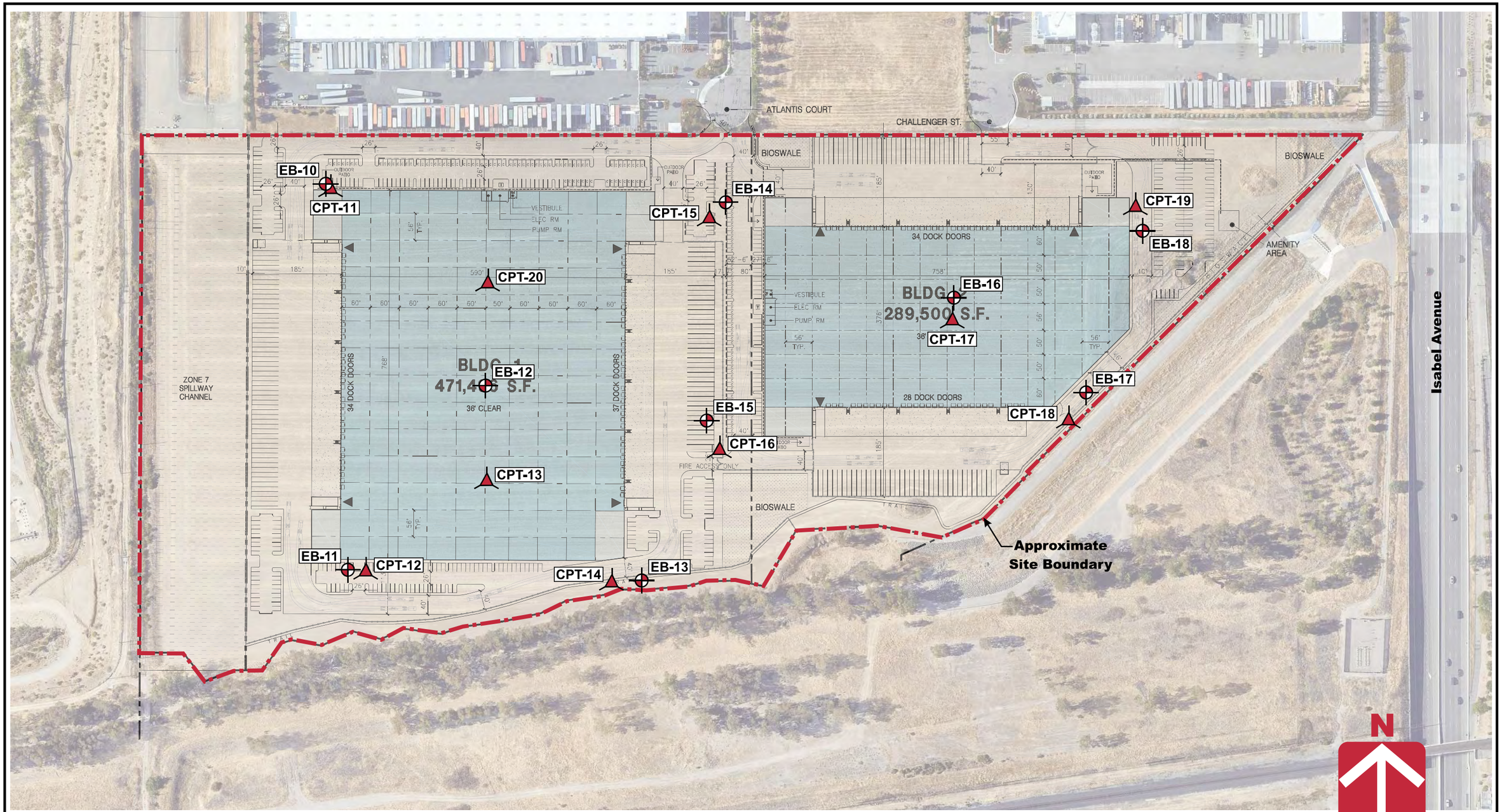
The Oaks Business Park
Livermore, CA

Project Number: 681-7-1

Figure Number: Figure 2A

Date: November 2021

Drawn By: RRN



Legend

- Approximate location of exploratory boring (EB)
- Approximate location of cone penetration test (CPT)

Base by Google Earth, dated 08/10/2020
Overlay by HPA Architecture, Conceptual Site Plan, Oaks Business Park - Bldg. 1 & 2 - Scheme 11, dated 03/17/2021

CORNERSTONE EARTH GROUP

Site Plan

The Oaks Business Park
Livermore, CA

Project Number	681-7-1
Figure Number	Figure 2B
Date	November 2021
Drawn By	RRN

SITE

Geologic Time Scale		Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION	
					ON LAND	OFFSHORE
Quaternary	Historic	200			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
	Late Quaternary / Holocene	11,700		? ?	Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
	Late Quaternary / Pleistocene	700,000		? ?	Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
	Early Quaternary / Pleistocene	1,600,000		?	Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Pilo-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary		4.5 billion (Age of Earth)			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.

Base by California Geological Survey - 2010 Fault Activity Map of California (Jennings and Bryant, 2010)

N

0 5 10

APPROXIMATE SCALE (MILES)

Project Number 681-7-1

Figure Number Figure 3

Drawn By RRN

Date November 2021

Regional Fault Map

The Oaks Business Park
Livermore, CA

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FIGURE 4A

CPT NO. 1

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PROJECT/CPT DATA

Project Title	SMP 39
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	39
Design Water Depth (feet)	35
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 FEET

0.01 (Inches)

LIQUEFACTION SETTLEMENT FROM 50 FEET

0.18 (Inches)

TOTAL SEISMIC SETTLEMENT 0.2 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 L/H 1000.0

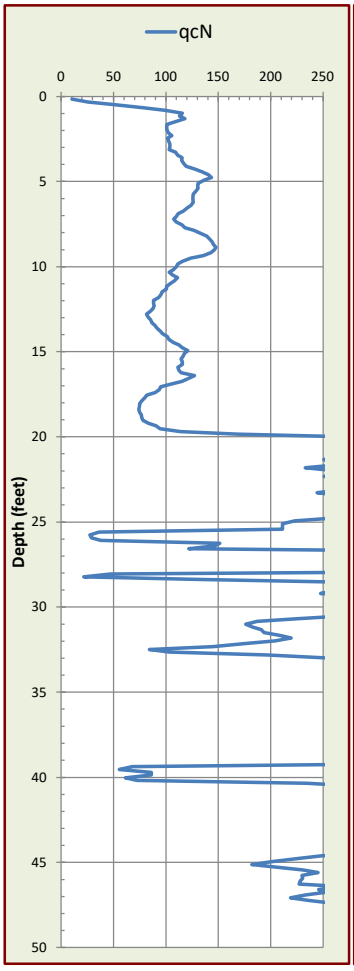
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

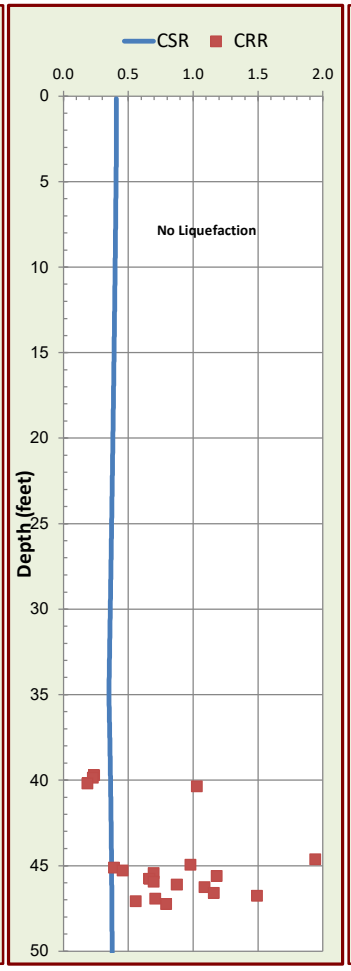
EXPECTED RANGE OF DISPLACEMENT

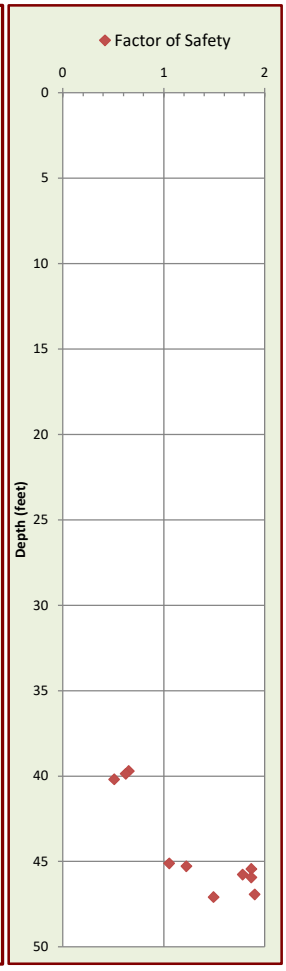
0.0 to 0.0 feet

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







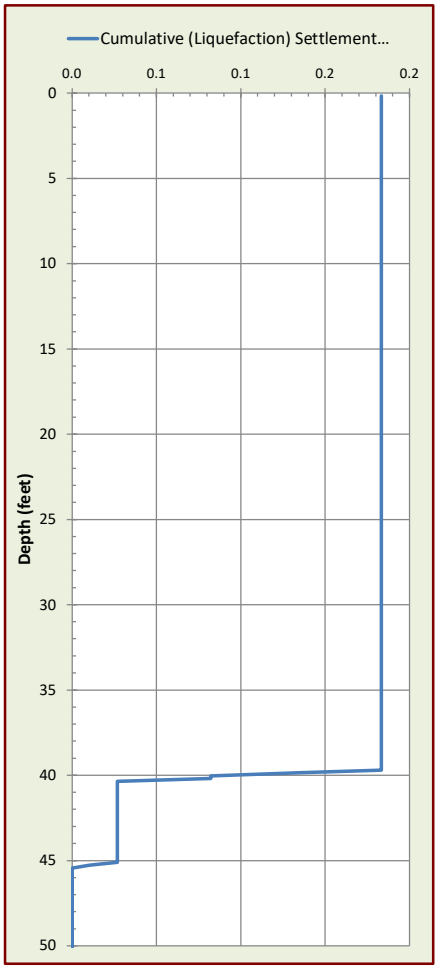


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FIGURE 4B

CPT NO. 2

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PROJECT/CPT DATA

Project Title	SMP 39
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	39
Design Water Depth (feet)	35
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 FEET

0.01 (Inches)

LIQUEFACTION SETTLEMENT FROM 50 FEET

0.00 (Inches)

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 L/H 1000.0

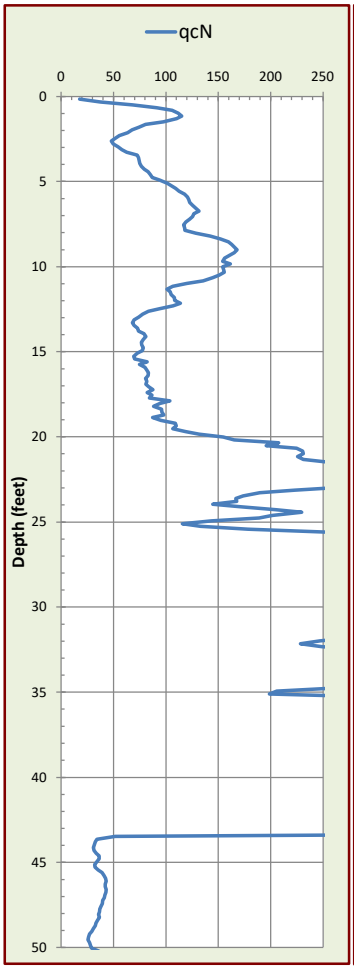
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

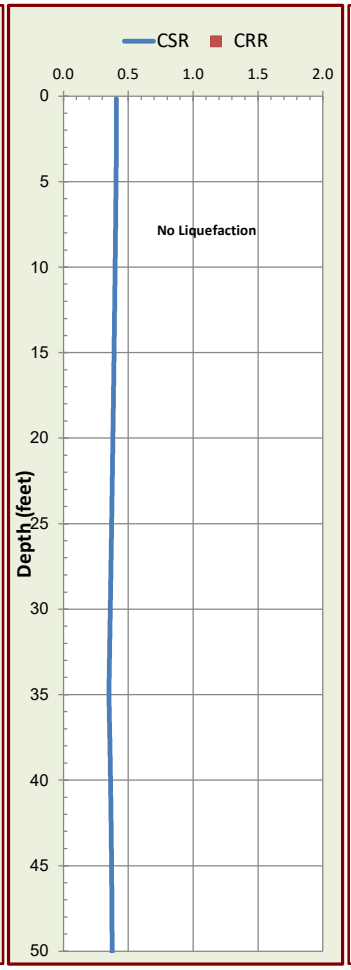
EXPECTED RANGE OF DISPLACEMENT

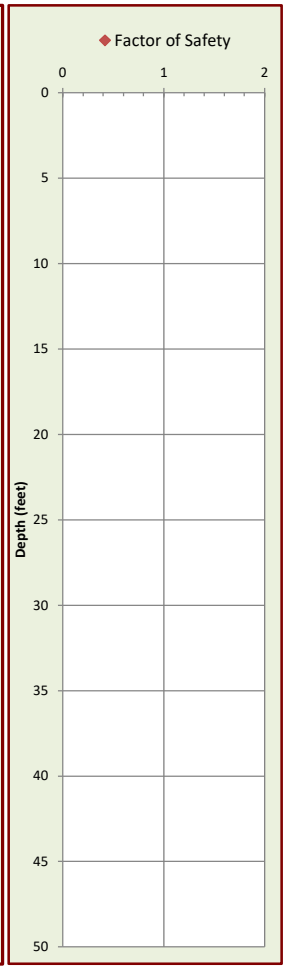
0.0 to 0.0 feet

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







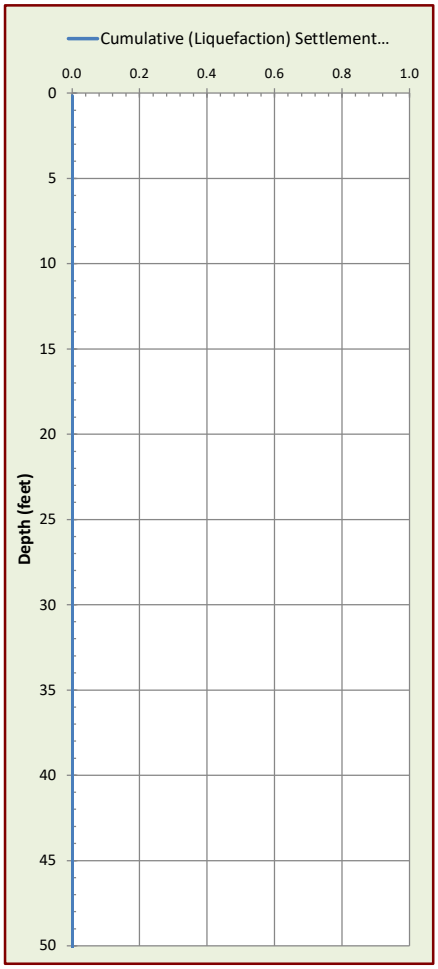


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FIGURE 4C

CPT NO. 3

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PROJECT/CPT DATA

Project Title	SMP 39
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	39
Design Water Depth (feet)	35
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.01 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

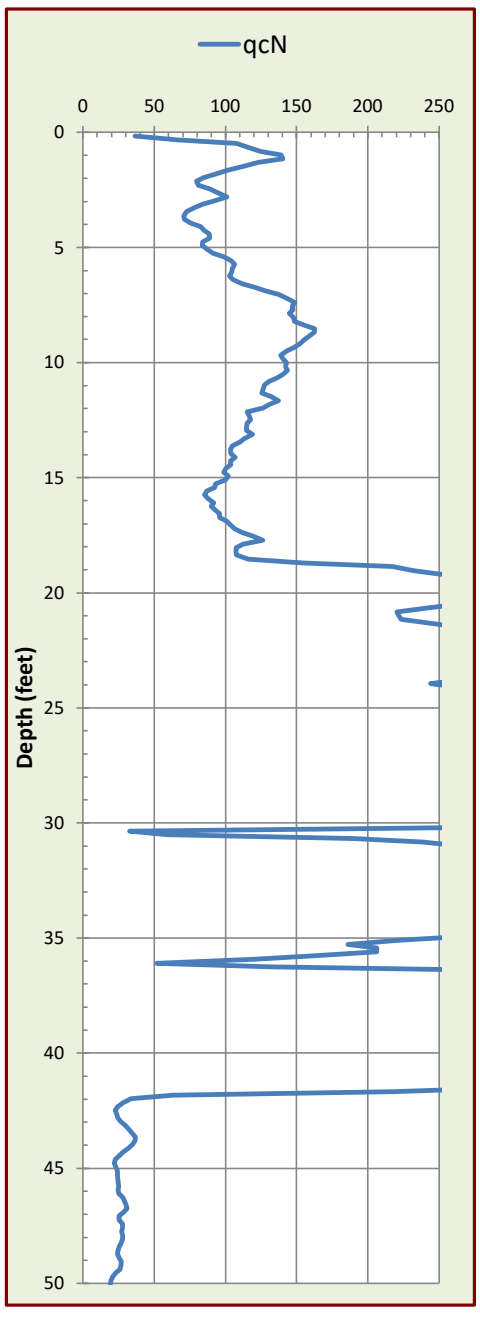
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

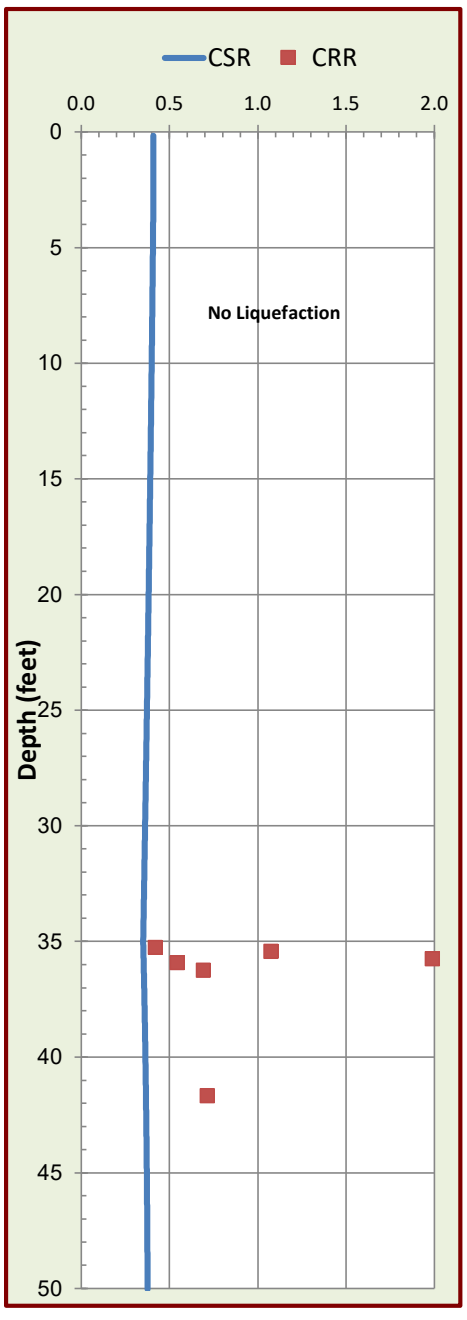
EXPECTED RANGE OF DISPLACEMENT

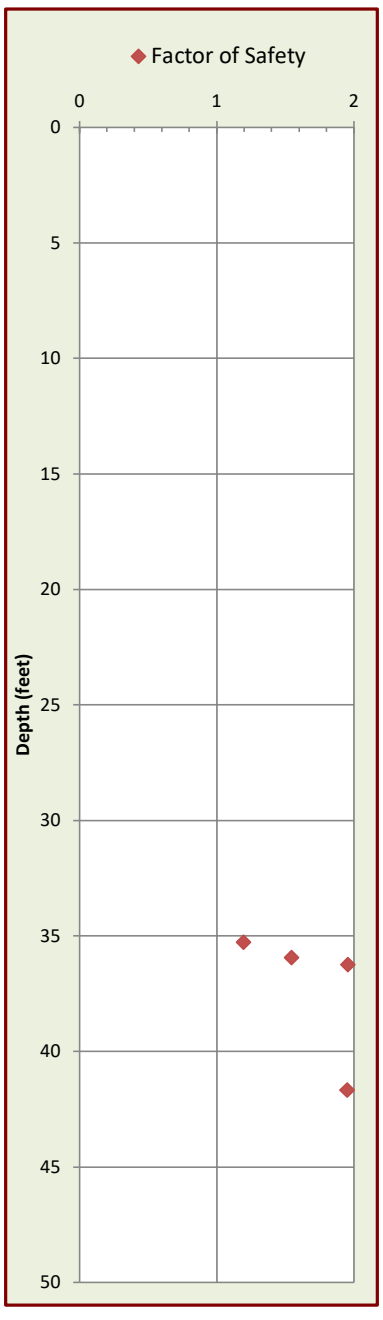
0.0 **to** 0.0 **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







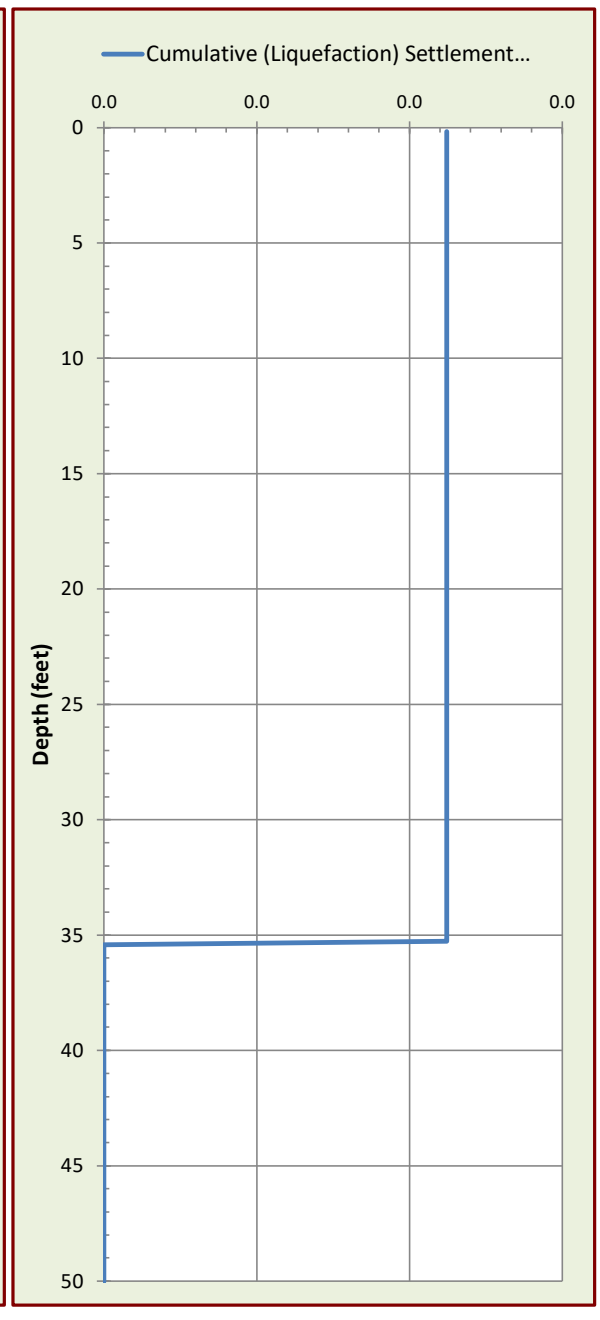


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FIGURE 4D

CPT NO. 4

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PROJECT/CPT DATA

Project Title	**SMP 39**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**39**
Design Water Depth (feet)	**35**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.02 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.21 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.2 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

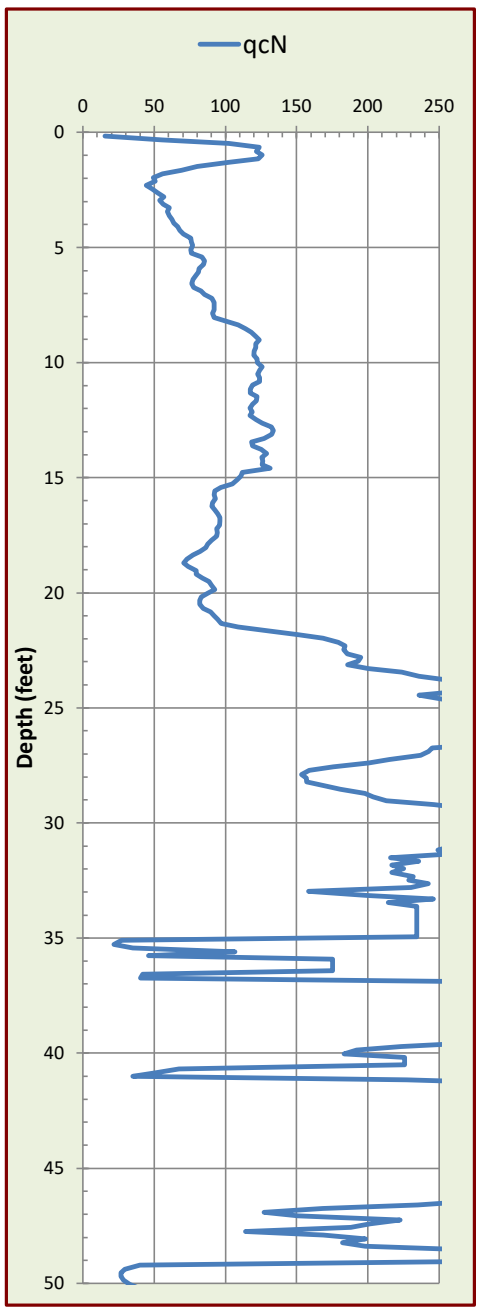
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

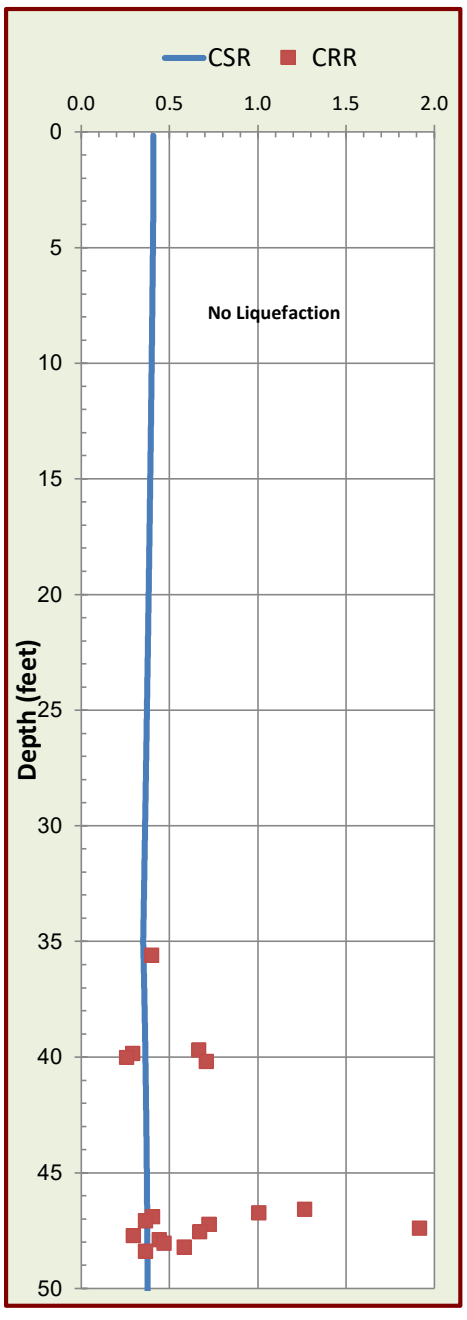
EXPECTED RANGE OF DISPLACEMENT

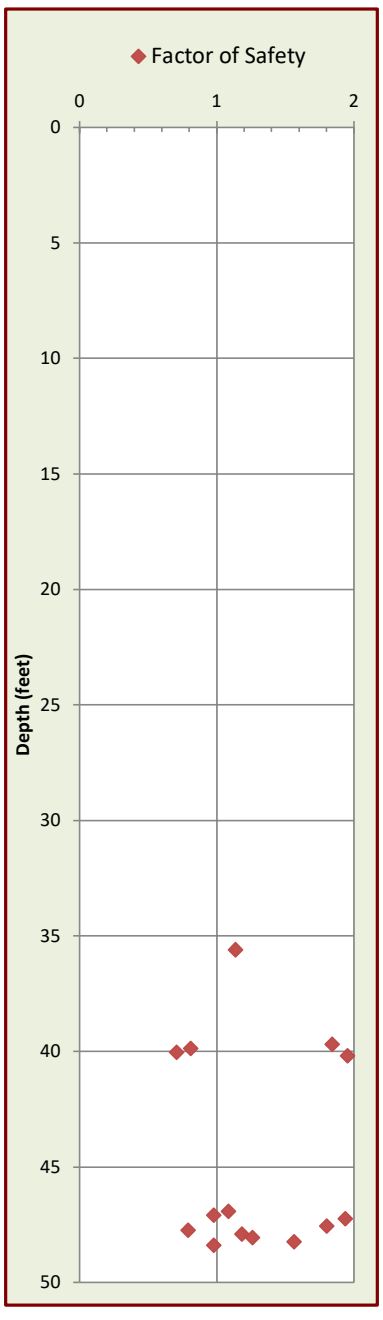
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







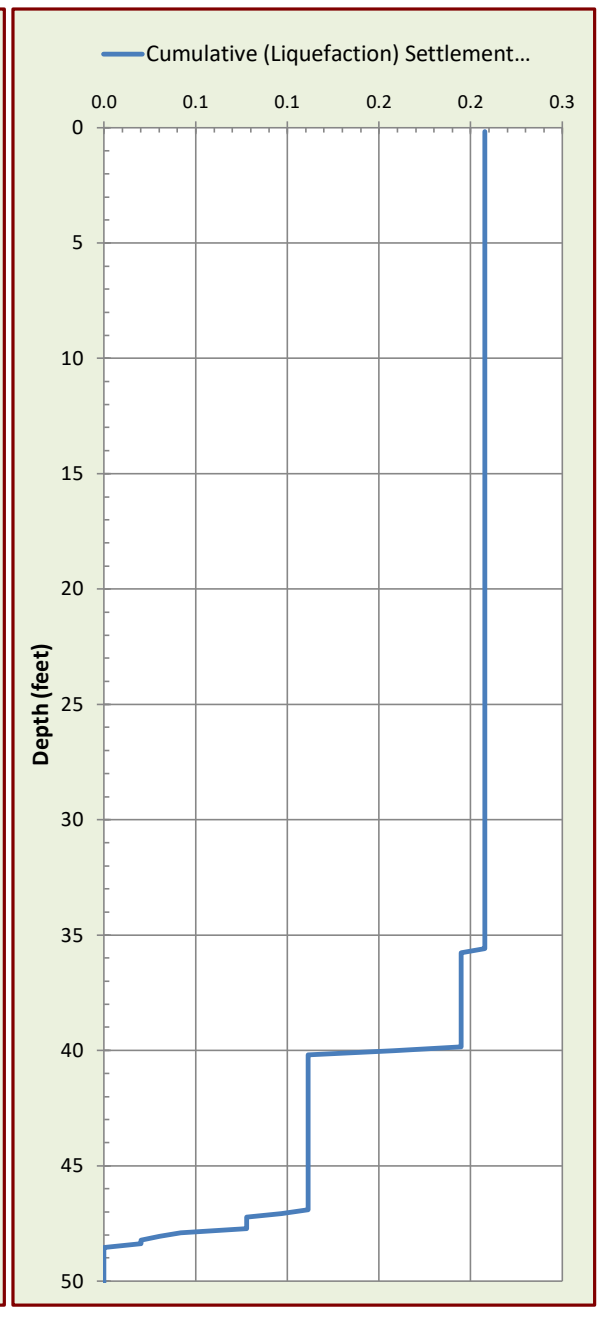


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FIGURE 4E

CPT NO. 5

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PROJECT/CPT DATA

Project Title	**SMP 39**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**39**
Design Water Depth (feet)	**35**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.02 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

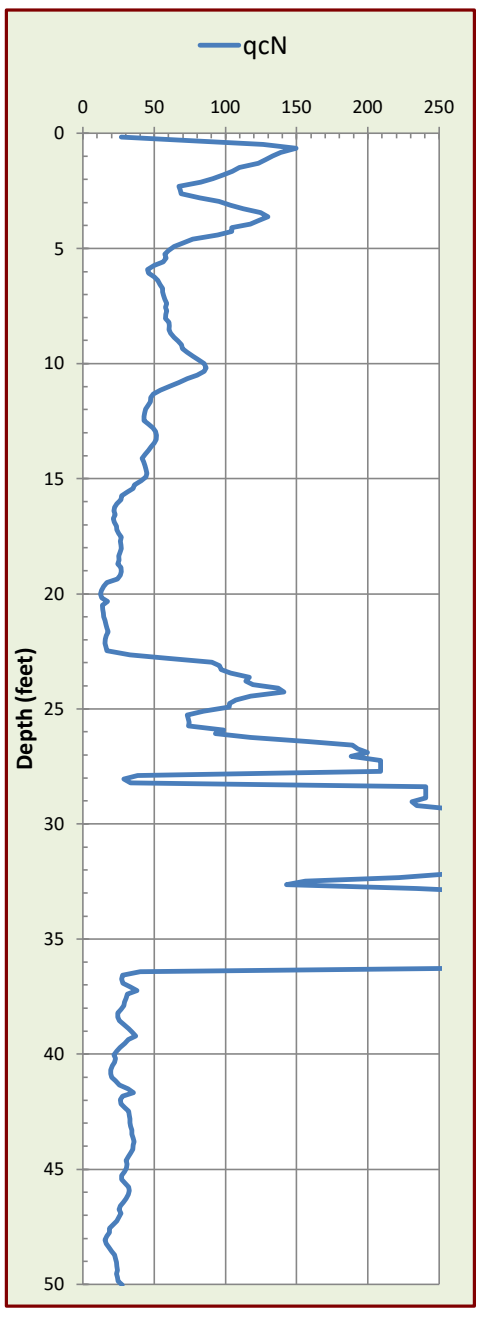
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

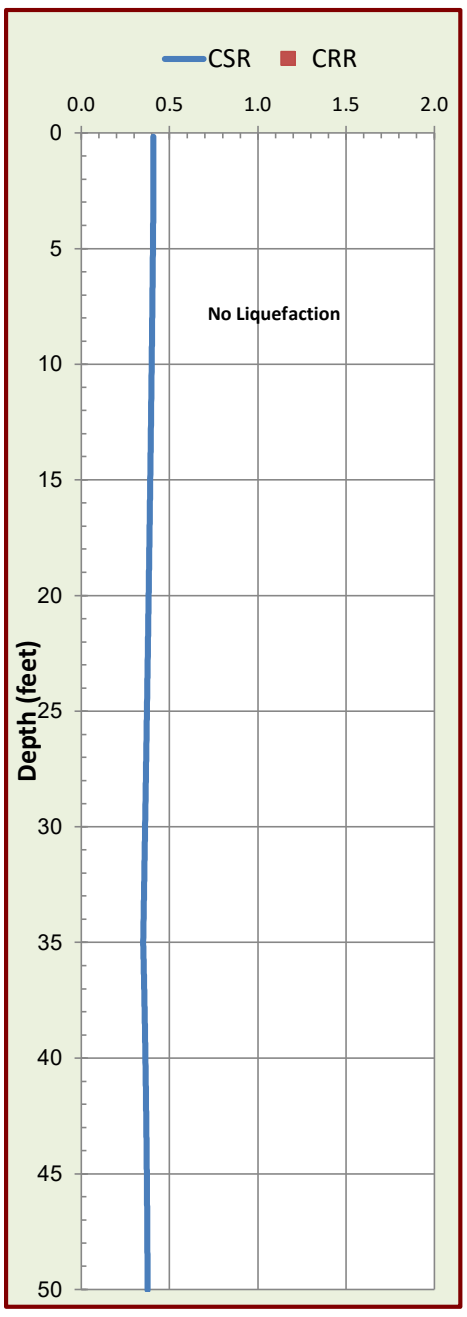
EXPECTED RANGE OF DISPLACEMENT

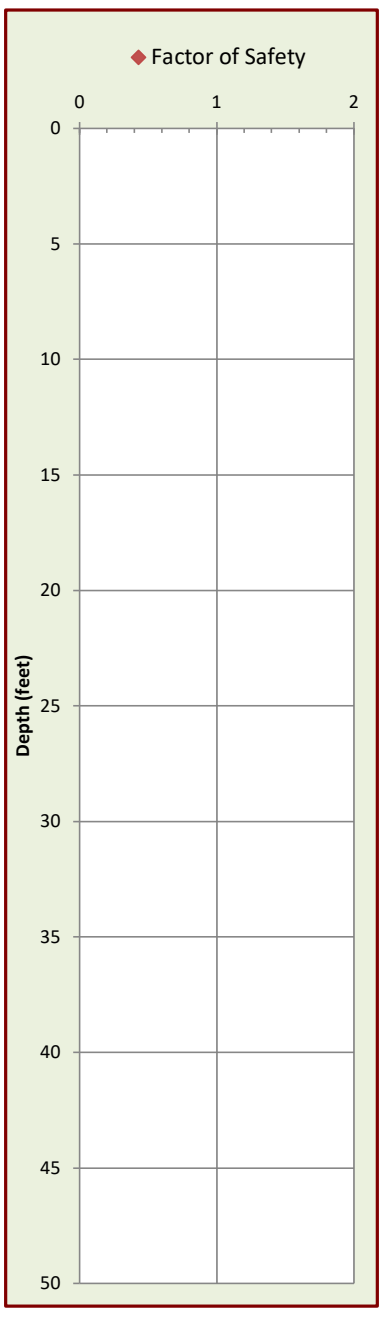
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







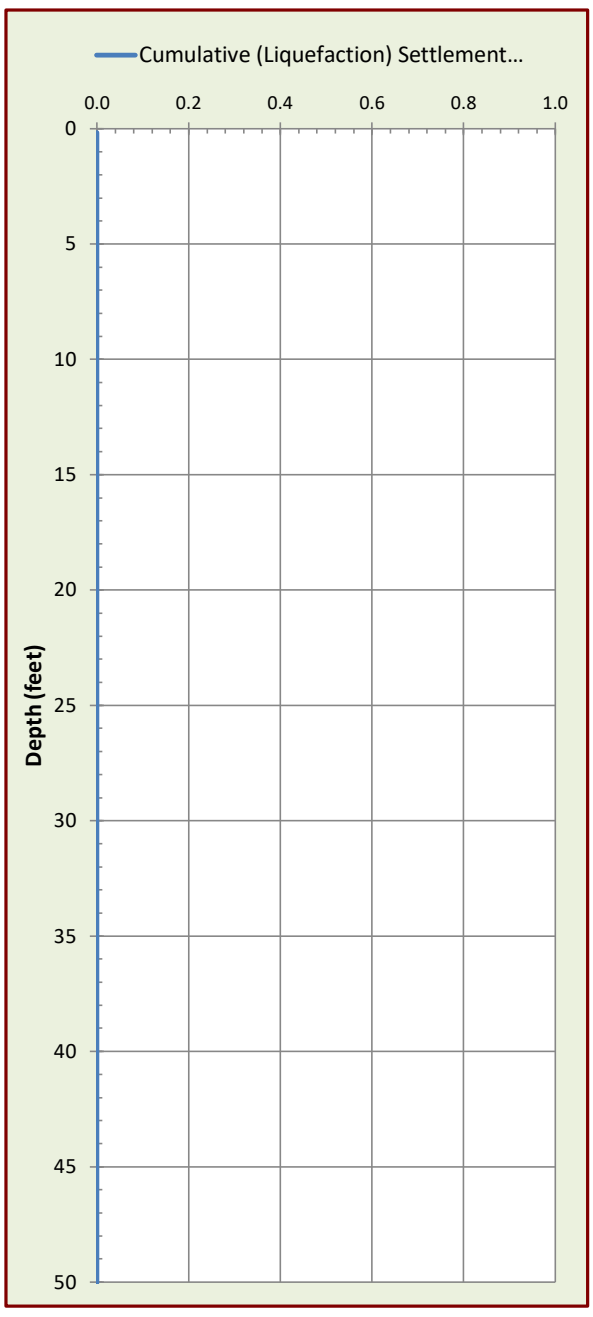


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FIGURE 4F

CPT NO. 6

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PROJECT/CPT DATA

Project Title	**SMP 39**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**39**
Design Water Depth (feet)	**35**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

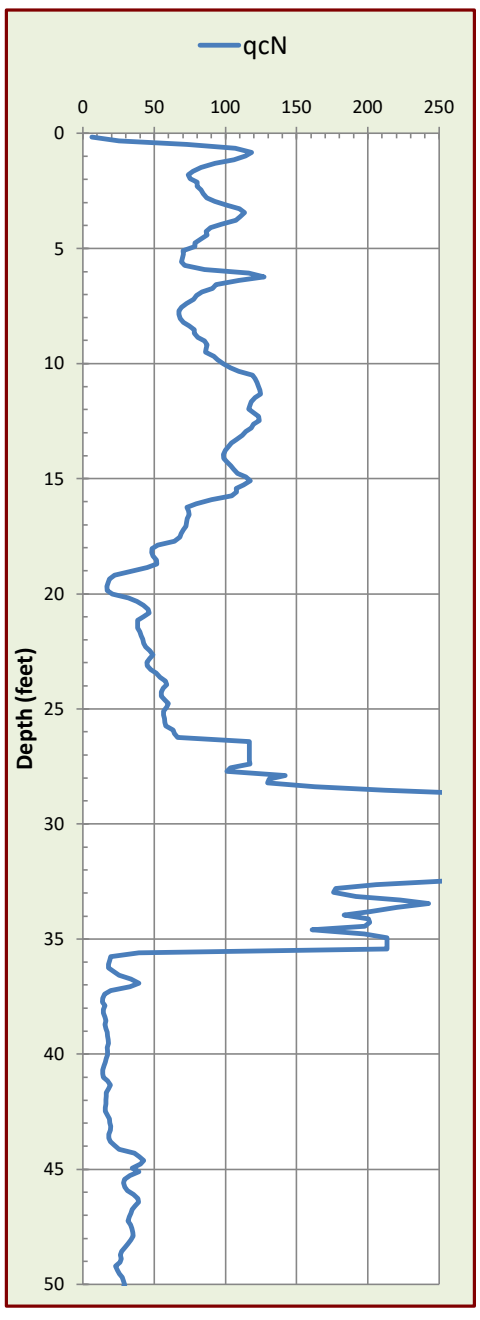
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

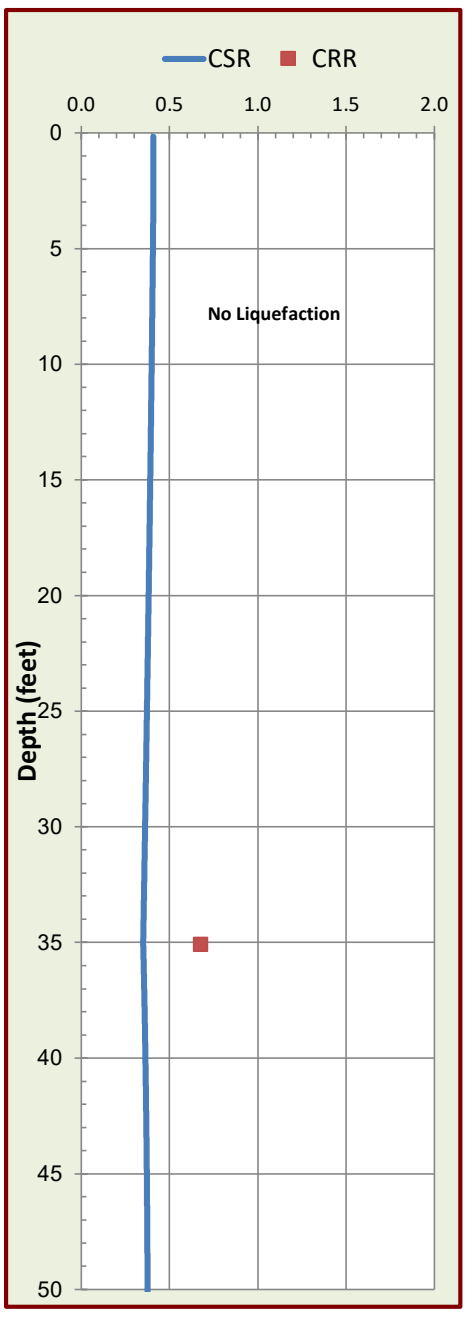
EXPECTED RANGE OF DISPLACEMENT

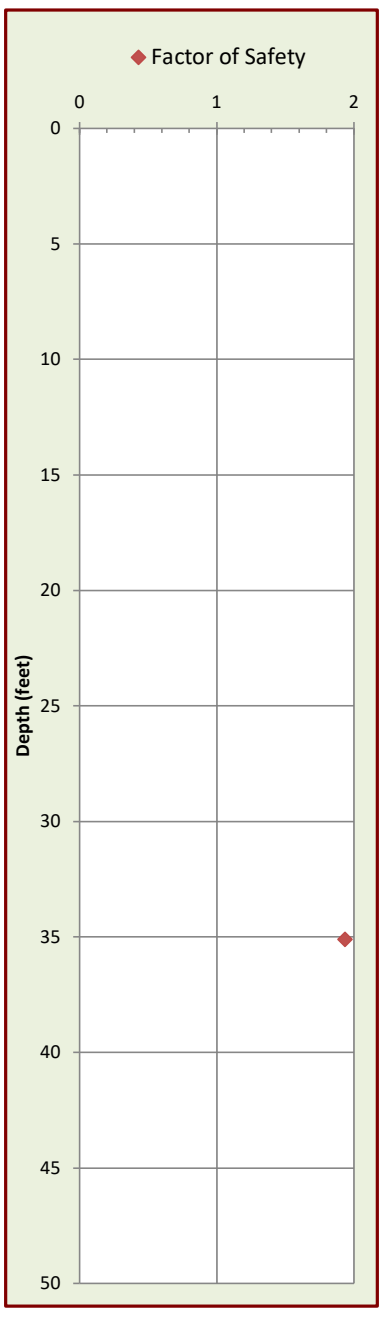
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







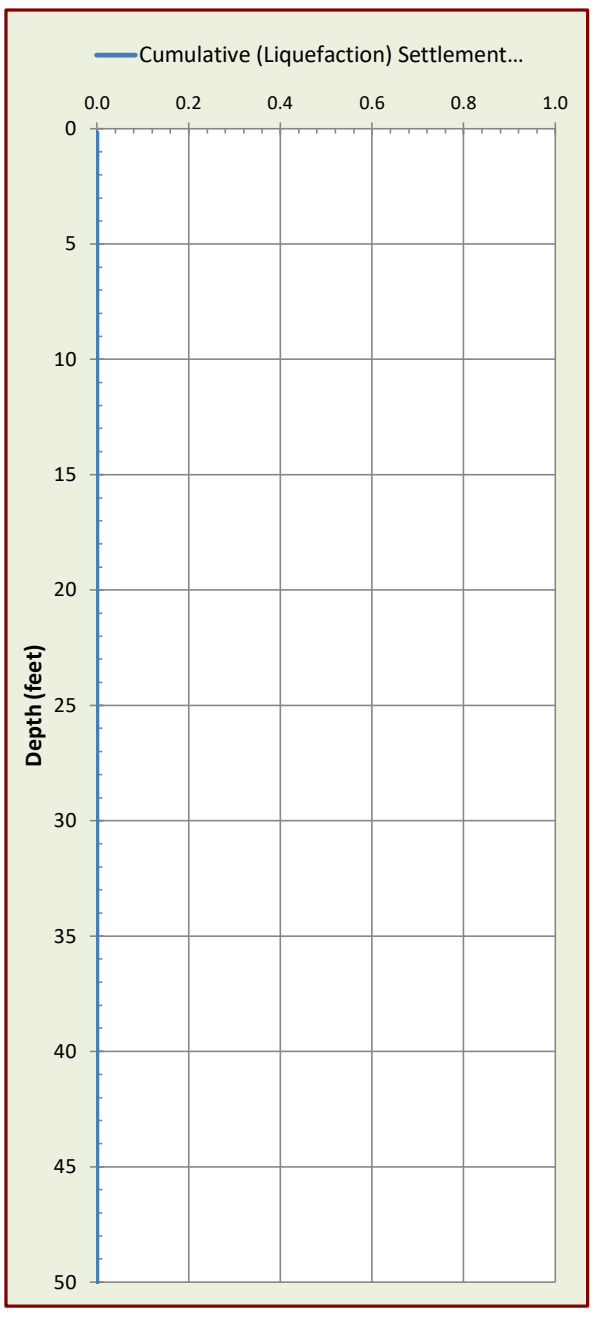


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FIGURE 4G

CPT NO. 7

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PROJECT/CPT DATA

Project Title	**SMP 39**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**39**
Design Water Depth (feet)	**35**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.07 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.1 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

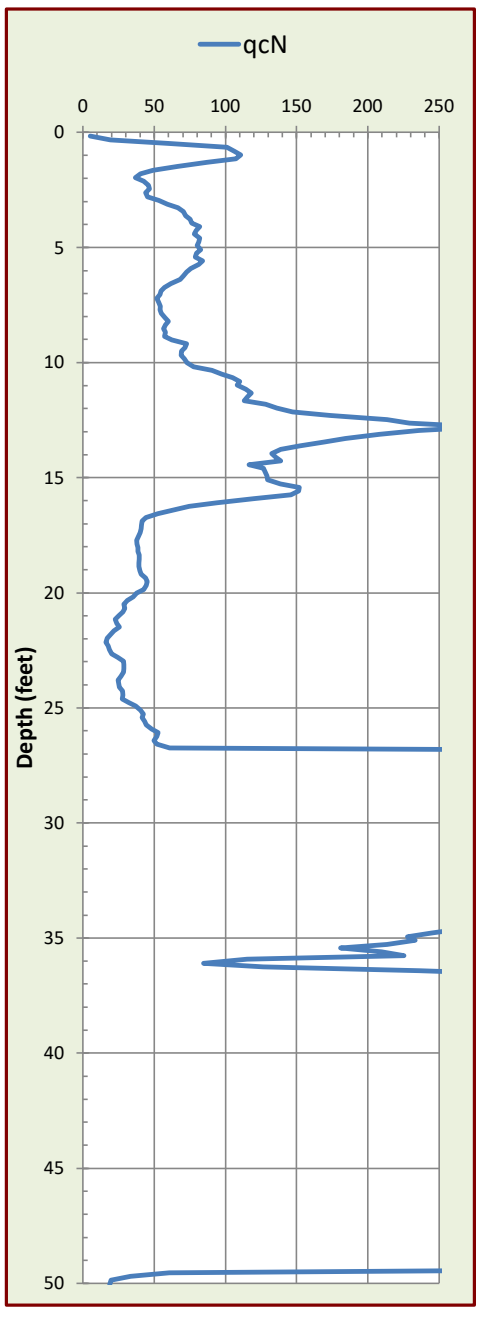
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

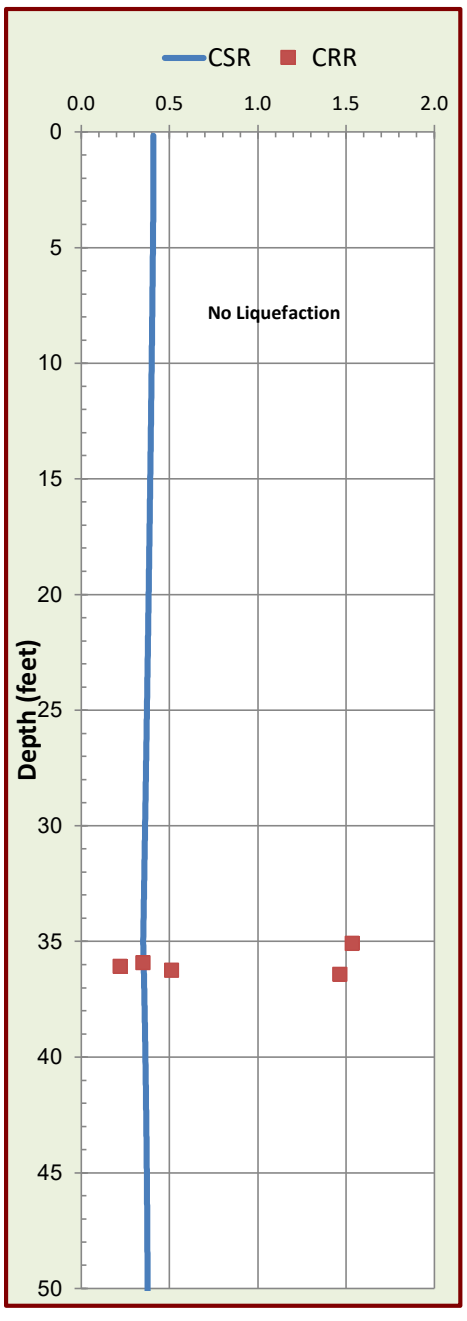
EXPECTED RANGE OF DISPLACEMENT

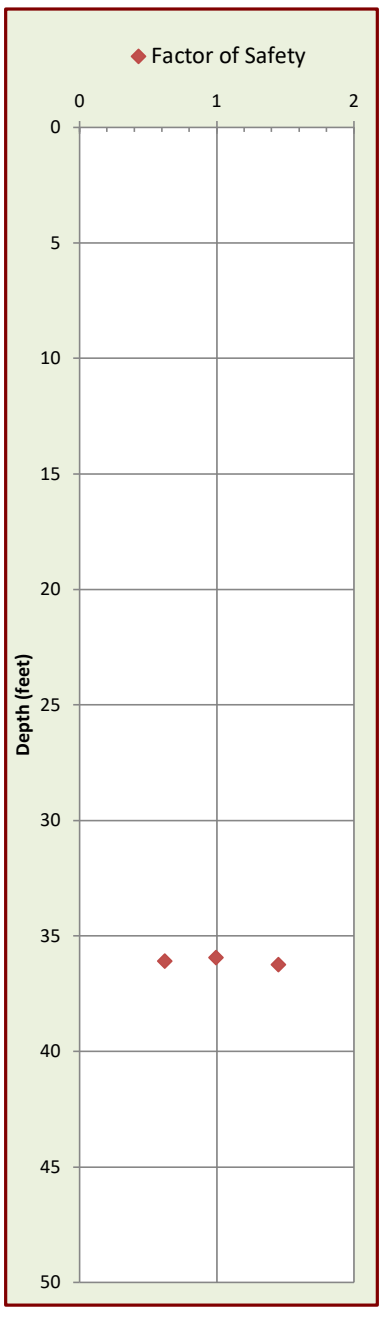
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







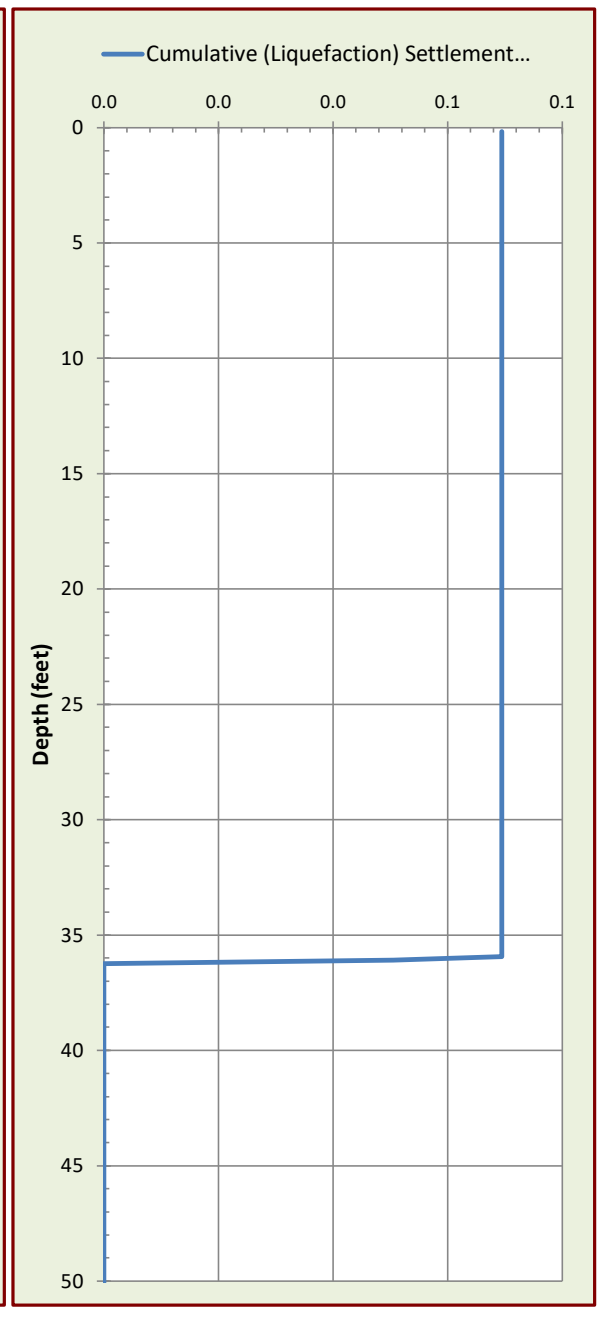


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FIGURE 4H

CPT NO. 8

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PROJECT/CPT DATA

Project Title	**SMP 39**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**27**
Design Water Depth (feet)	**35**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.03 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

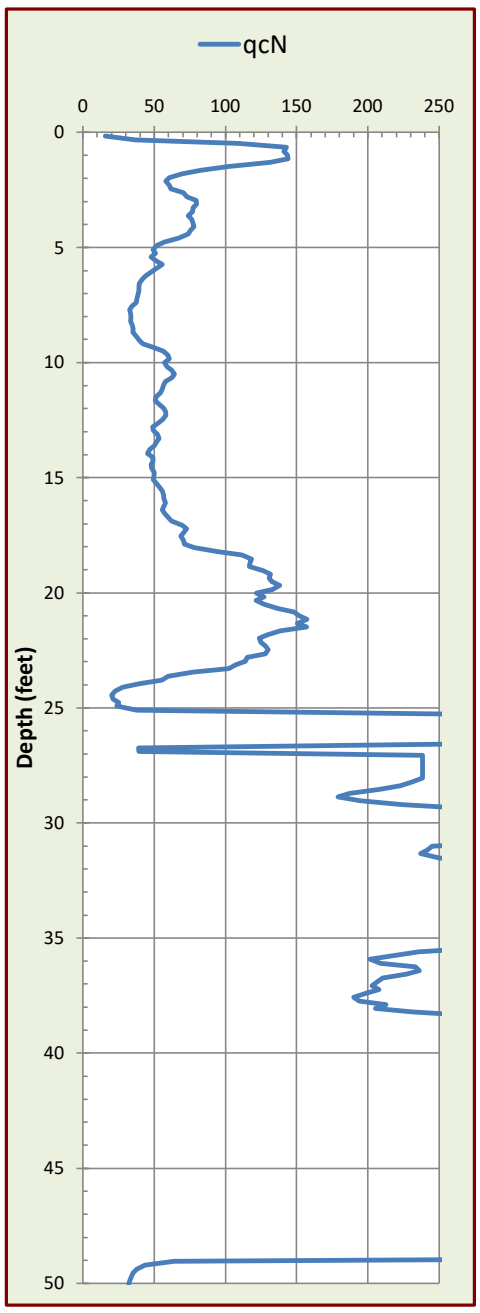
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

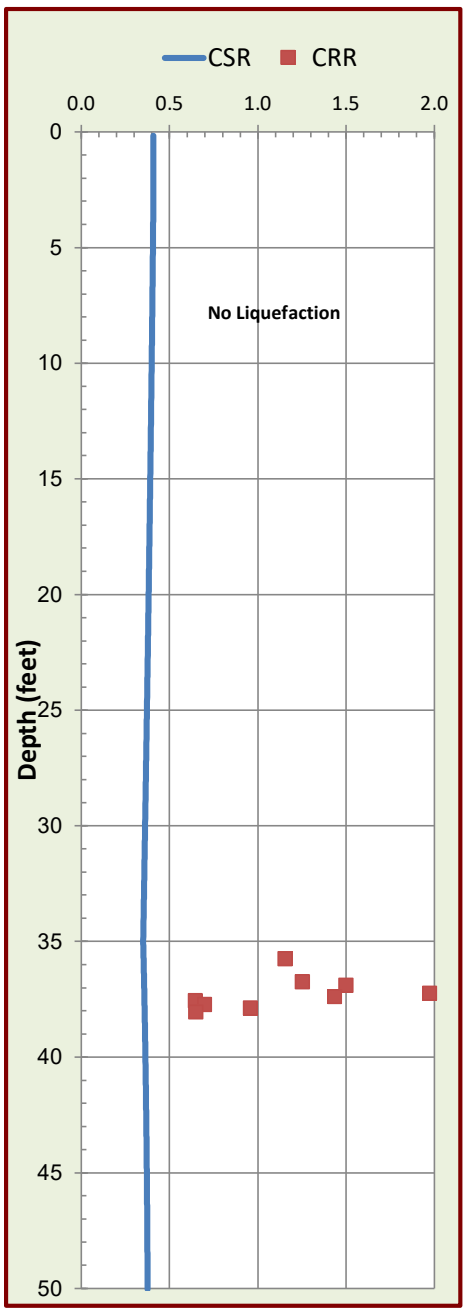
EXPECTED RANGE OF DISPLACEMENT

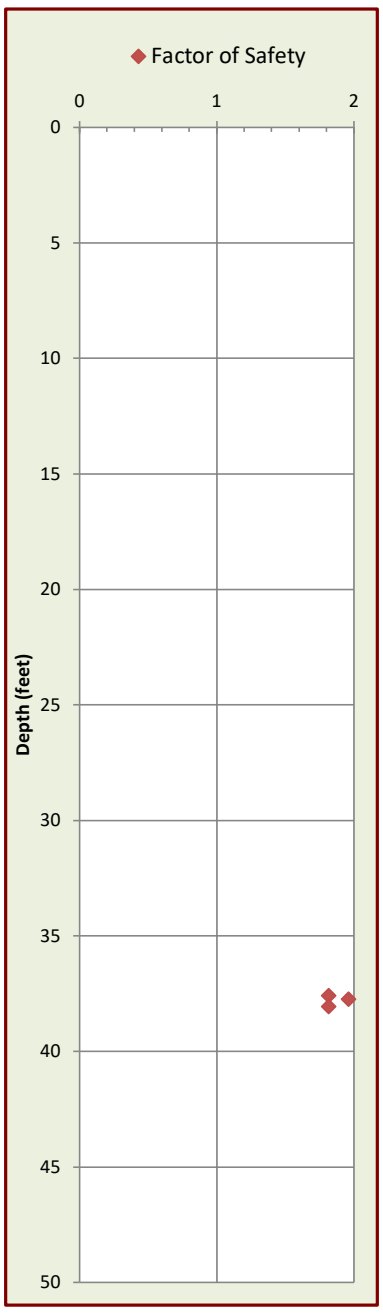
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







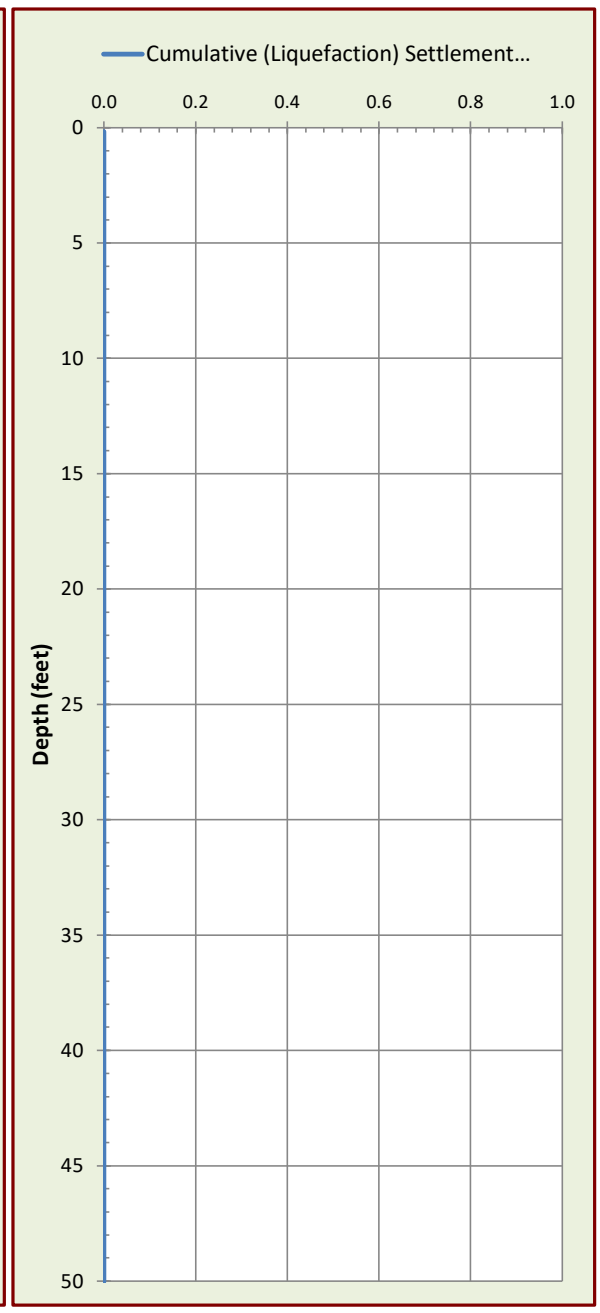


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FIGURE 4I

CPT NO. 9

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PROJECT/CPT DATA

Project Title	SMP 39
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	27
Design Water Depth (feet)	35
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.01 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

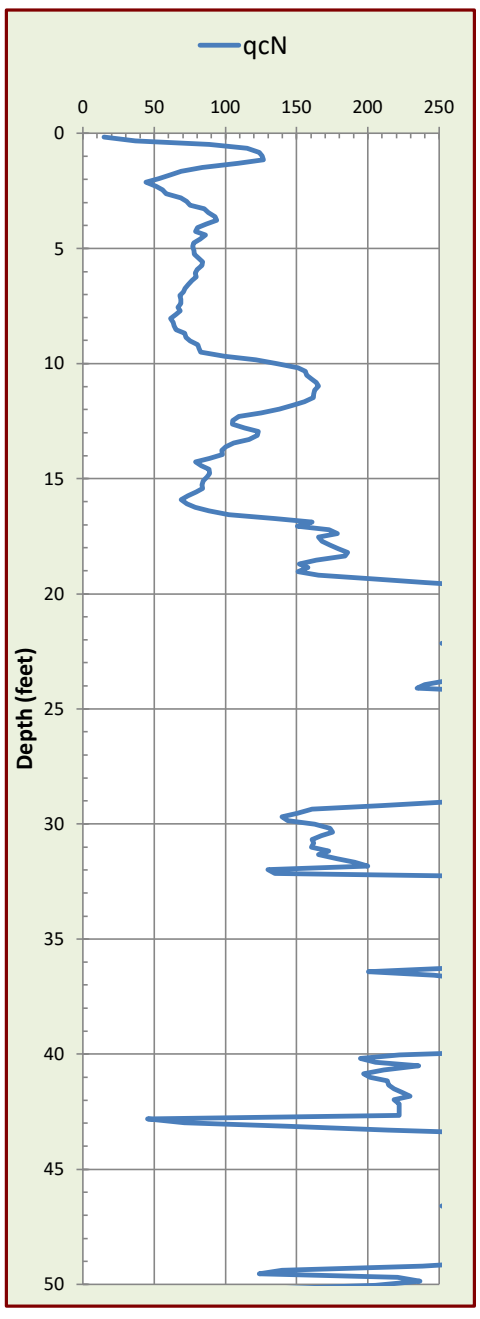
LDI[1] **Corrected for Distance** 0.00 (4 < L/H < 40)

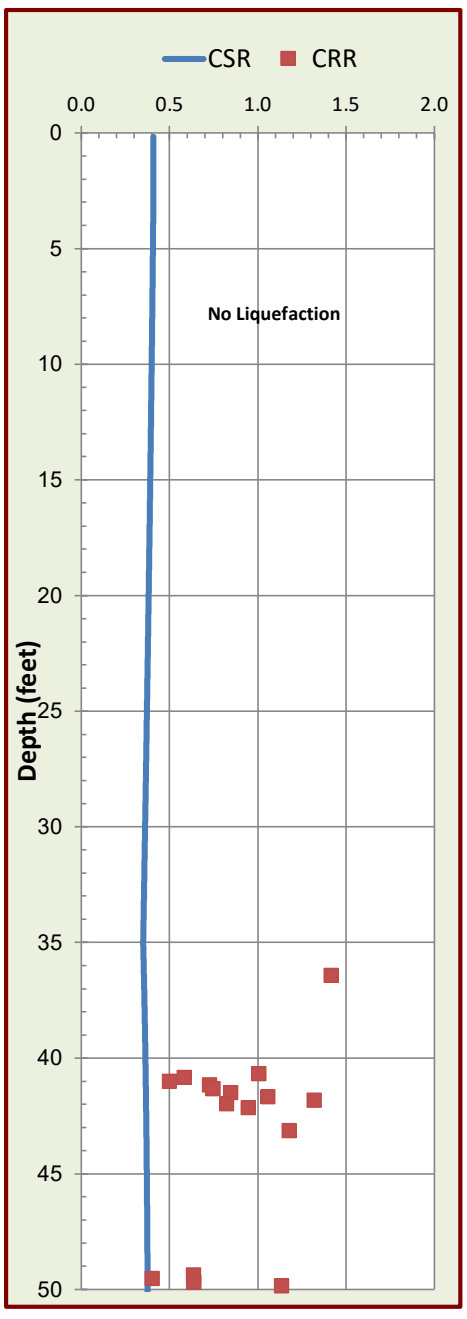
EXPECTED RANGE OF DISPLACEMENT

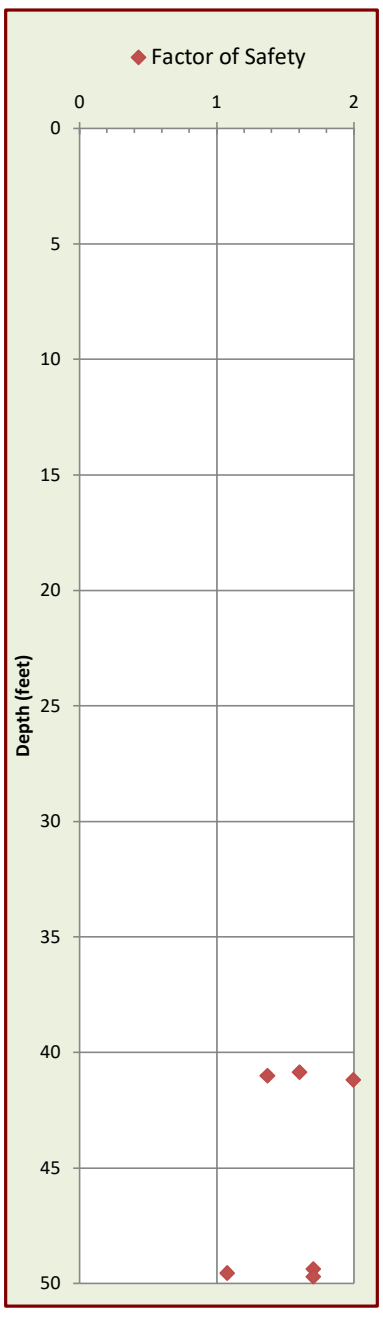
0.0 **to** 0.0 **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







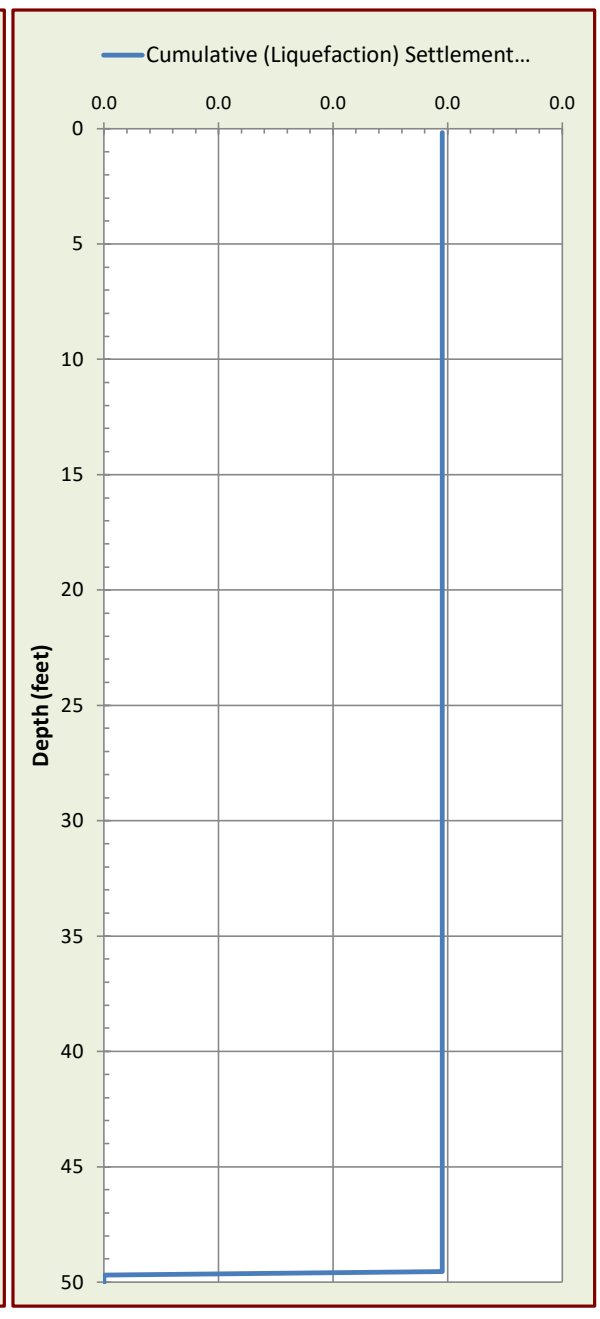


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FIGURE 4J

CPT NO. 10

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PROJECT/CPT DATA

Project Title	SMP 39
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	27
Design Water Depth (feet)	35
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 35 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

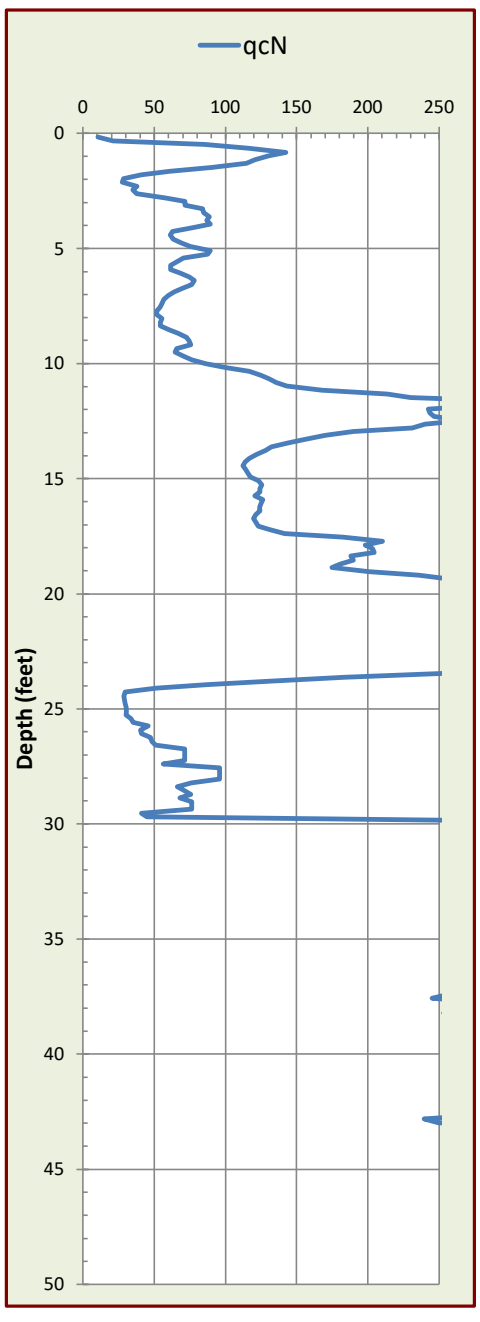
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

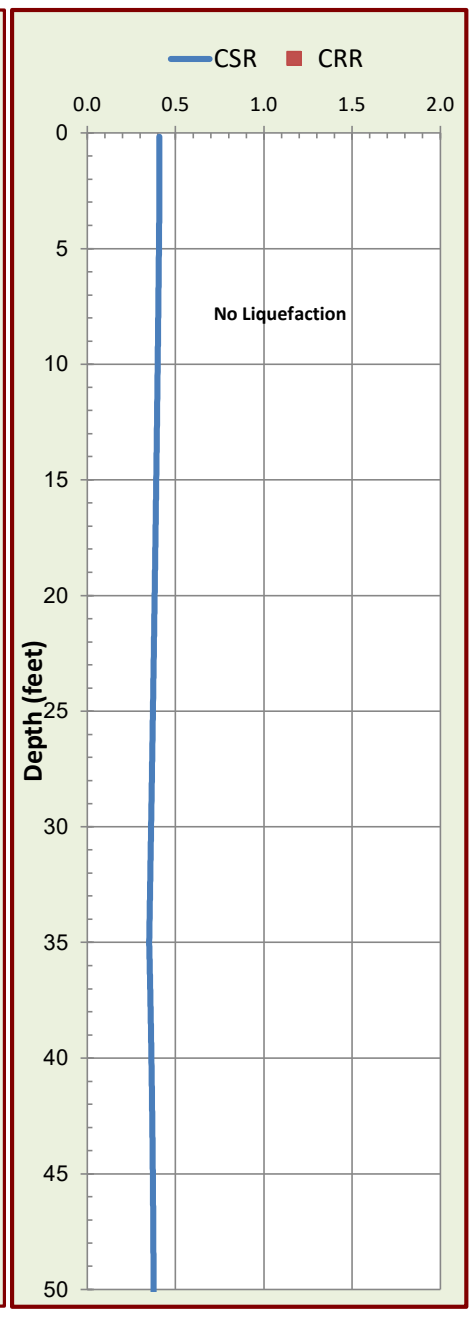
EXPECTED RANGE OF DISPLACEMENT

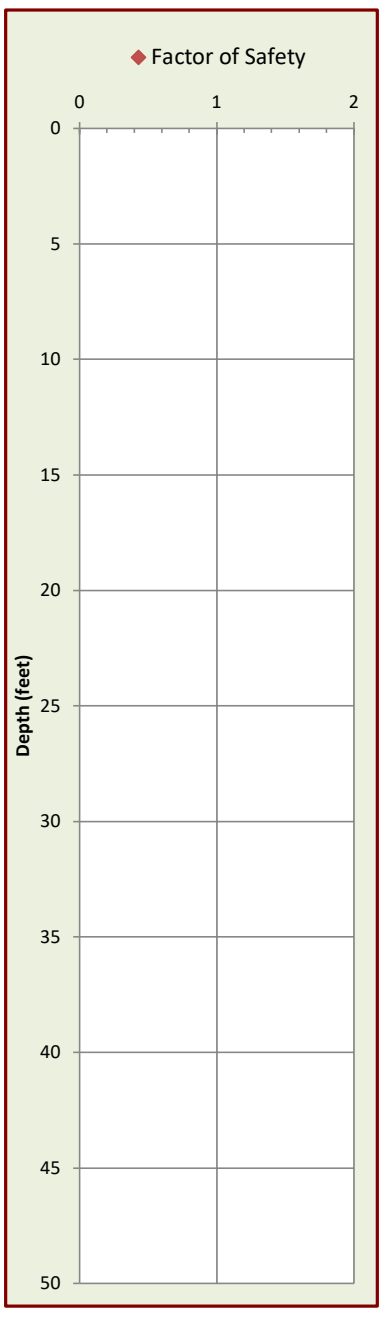
0.0 **to** 0.0 **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







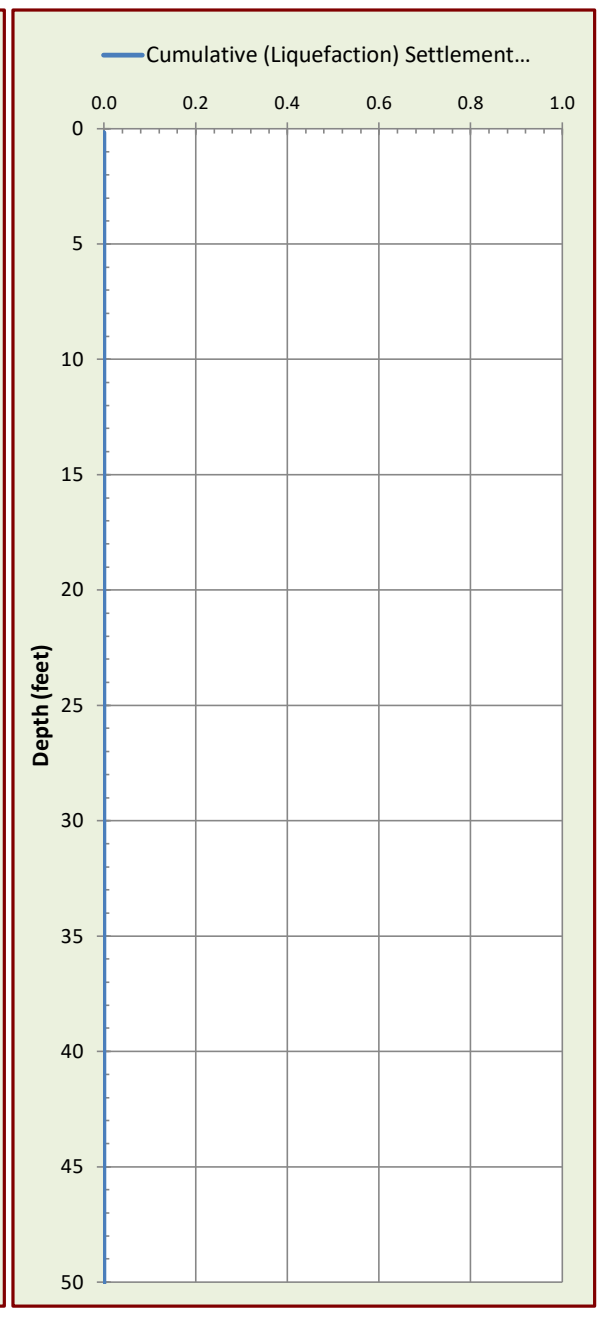


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FIGURE 4K

CPT NO. 11

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PROJECT/CPT DATA

Project Title	**Oaks Business Park**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.02 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

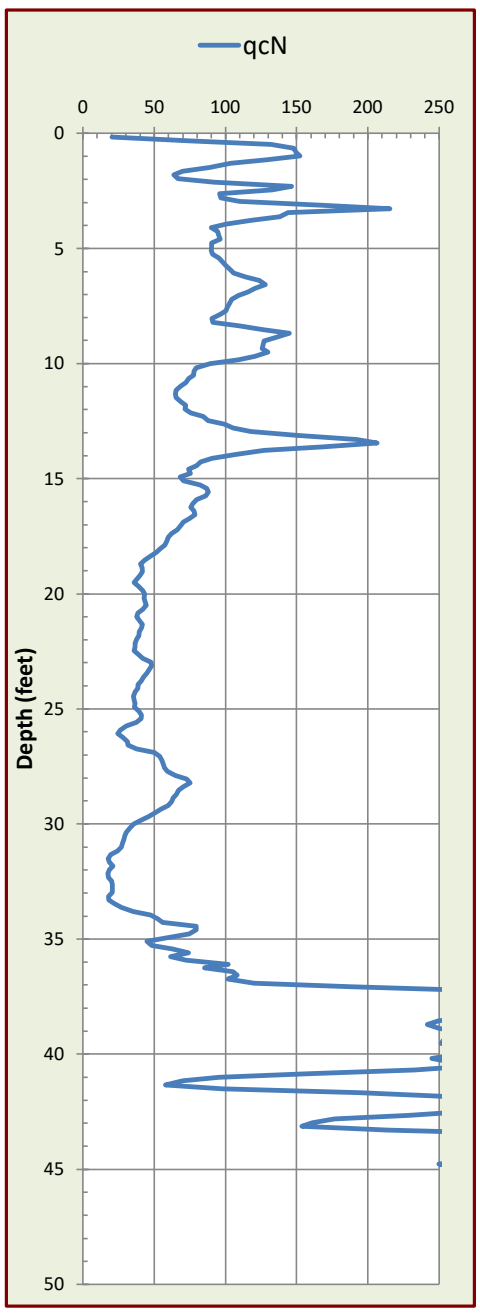
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

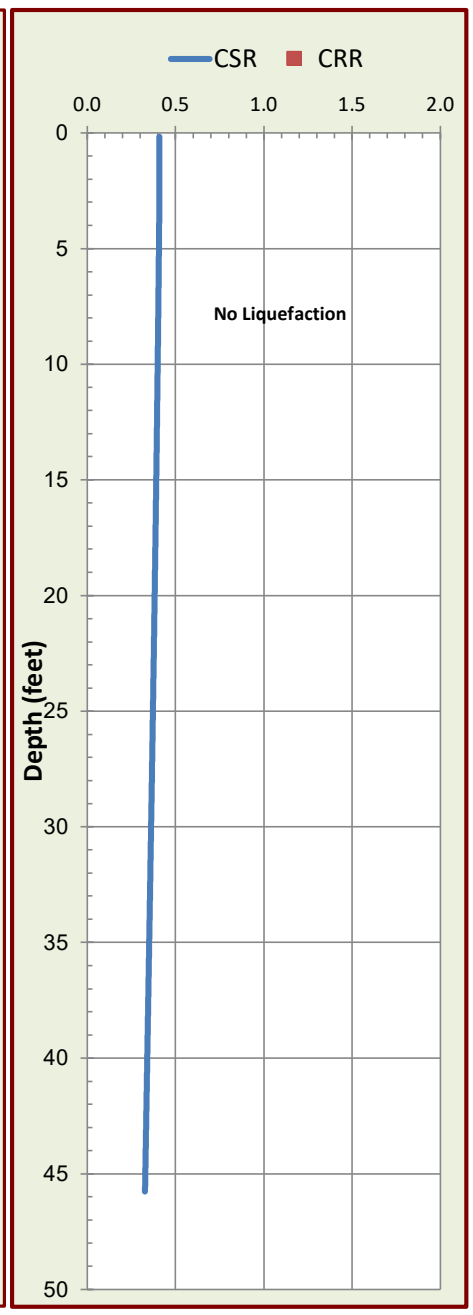
EXPECTED RANGE OF DISPLACEMENT

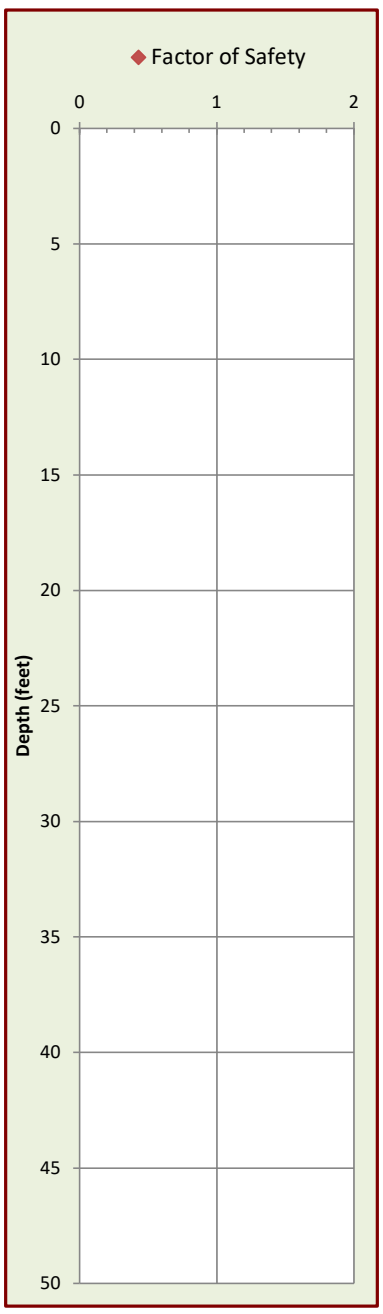
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







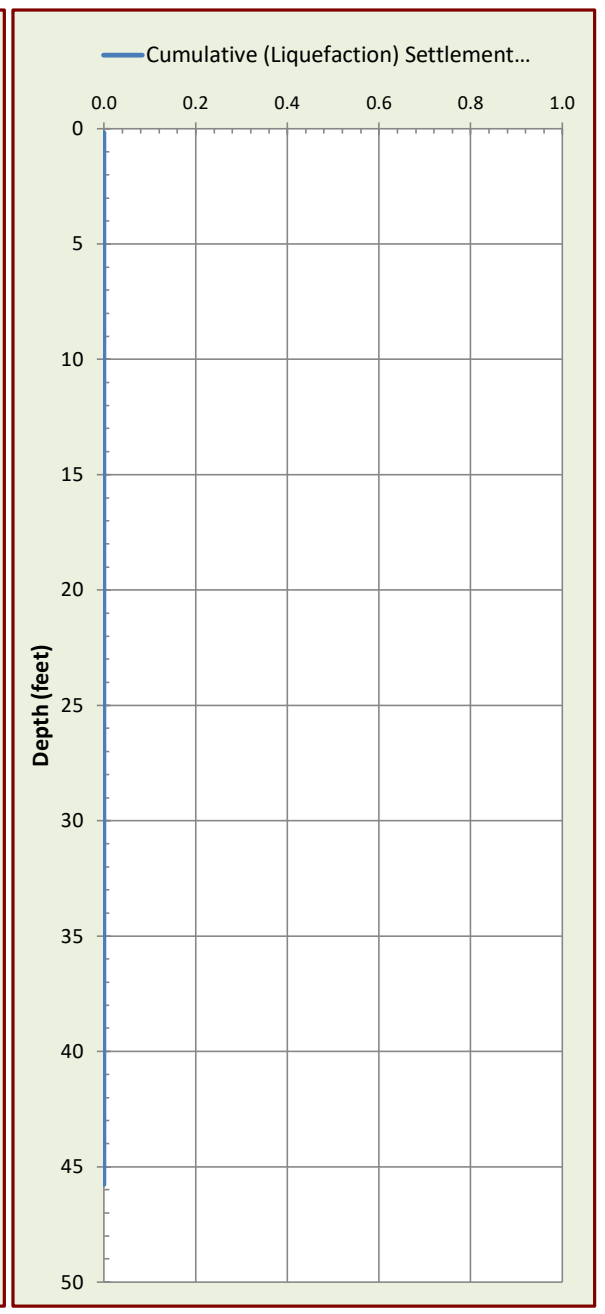


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FIGURE 4L

CPT NO. 12

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PROJECT/CPT DATA

Project Title	**Oaks Business Park**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.02 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

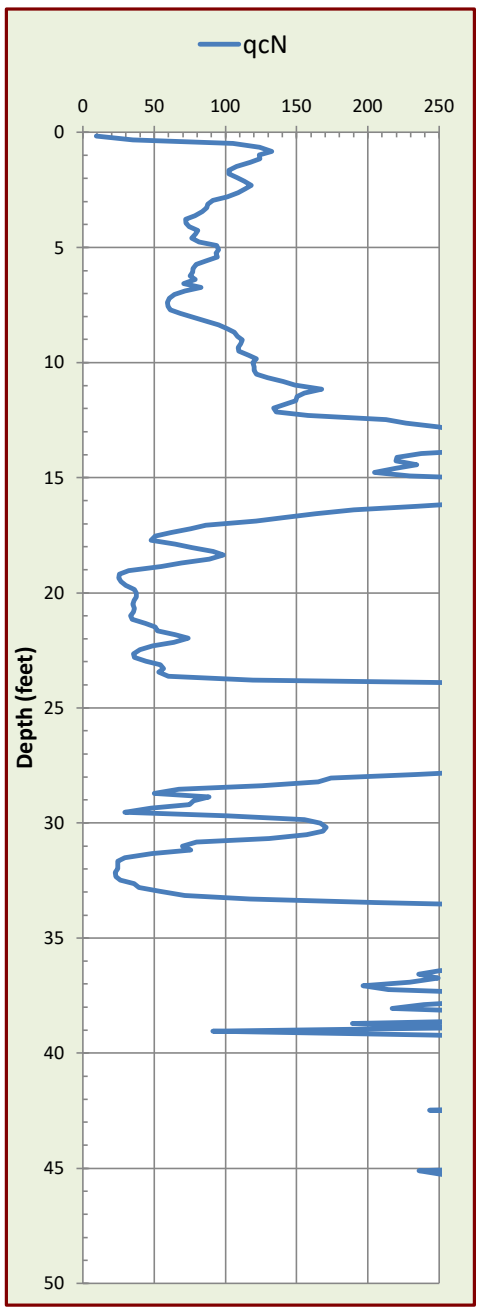
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

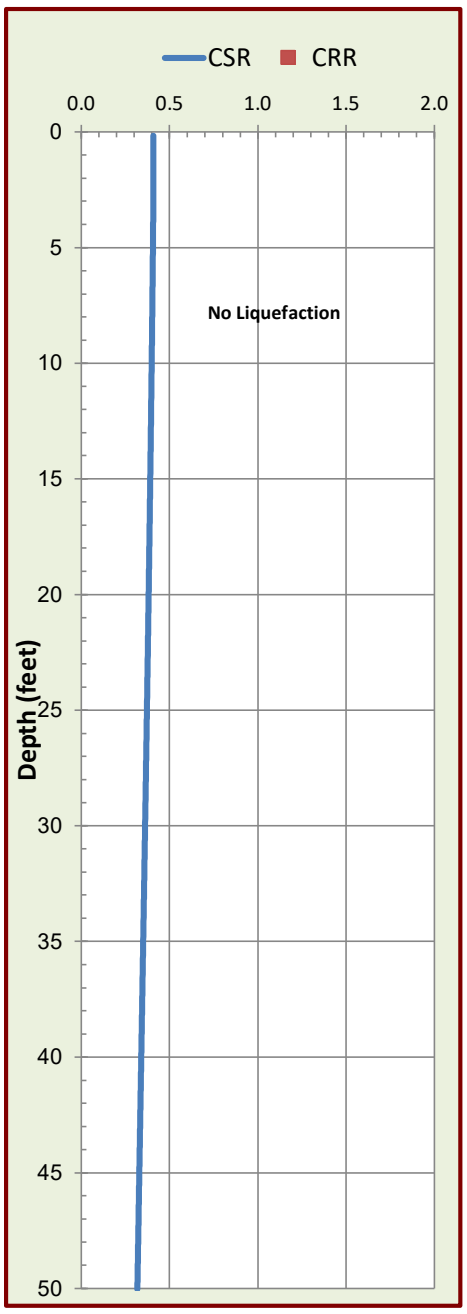
EXPECTED RANGE OF DISPLACEMENT

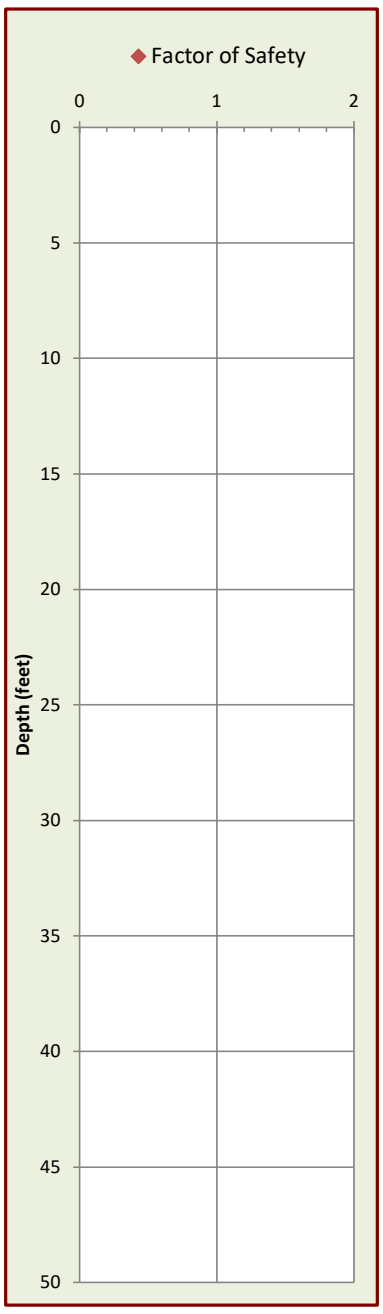
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







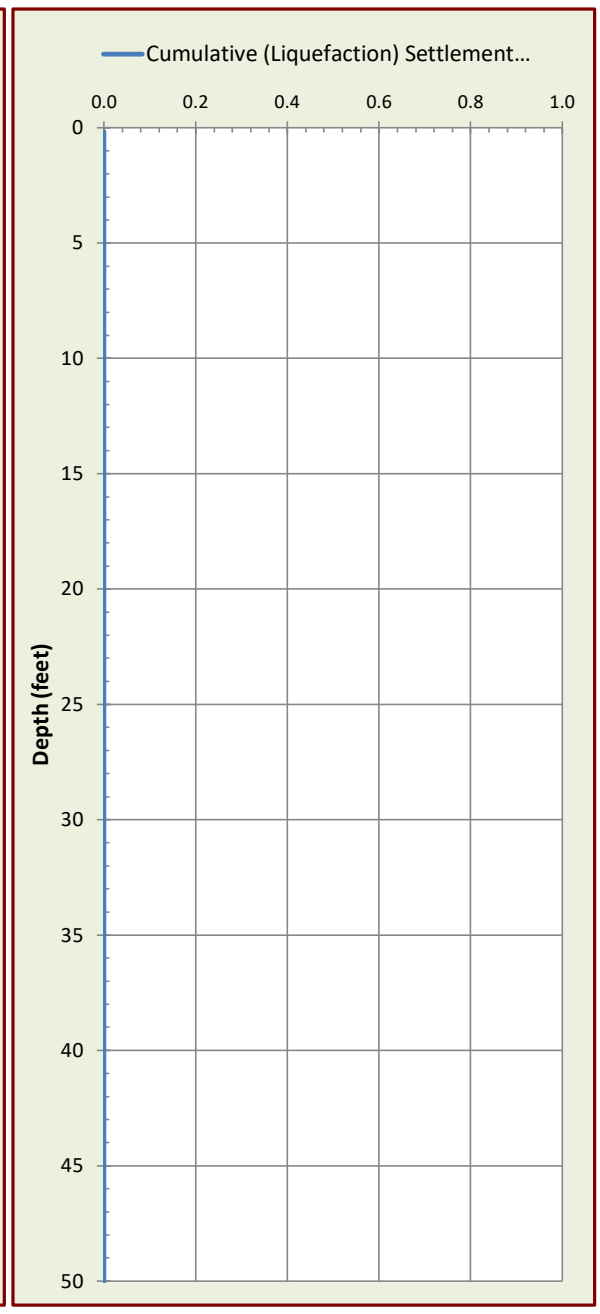


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FIGURE 4M

CPT NO. 13

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PROJECT/CPT DATA

Project Title	**Oaks Business Park**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM	55	FEET
	0.01	(Inches)
LIQUEFACTION SETTLEMENT FROM	50	FEET
	0.00	(Inches)
TOTAL SEISMIC SETTLEMENT	**0.0**	**INCHES**

POTENTIAL LATERAL DISPLACEMENT

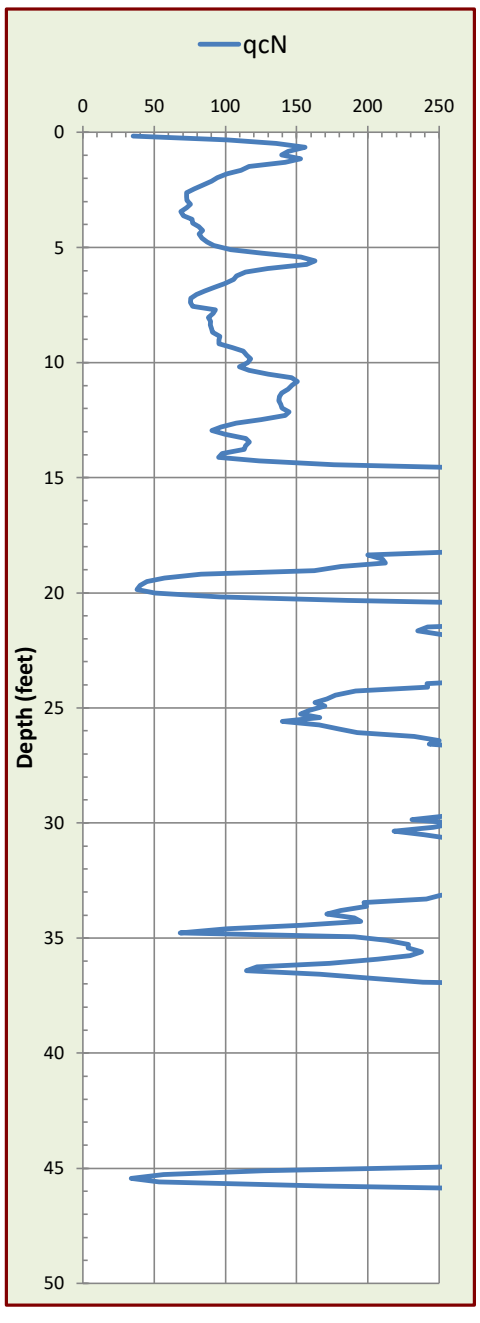
LDI^2	0.00	L/H	1000.0
LDI^1 Corrected for Distance	0.00	(4 < L/H < 40)	

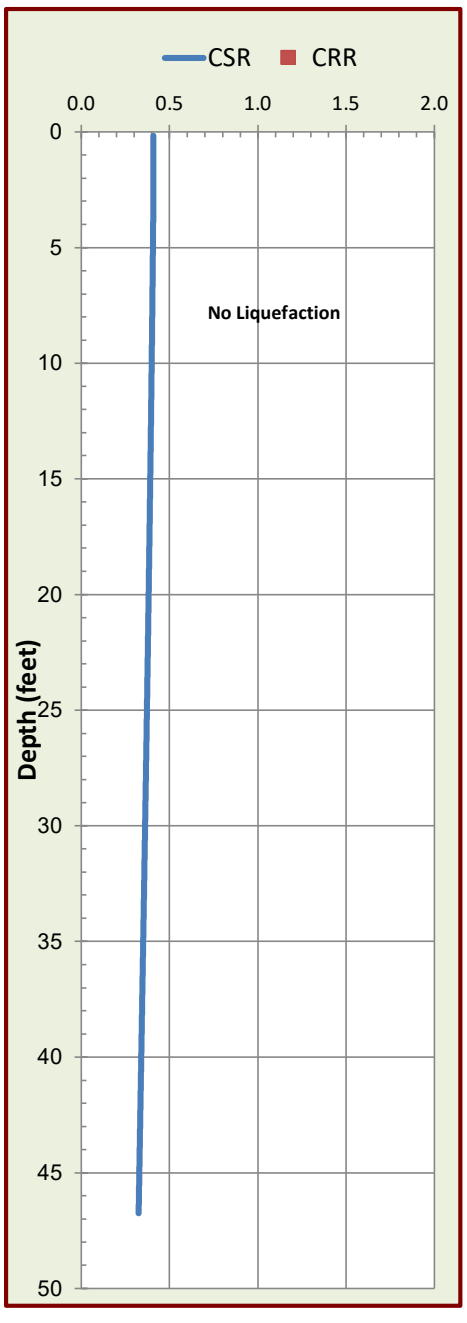
EXPECTED RANGE OF DISPLACEMENT

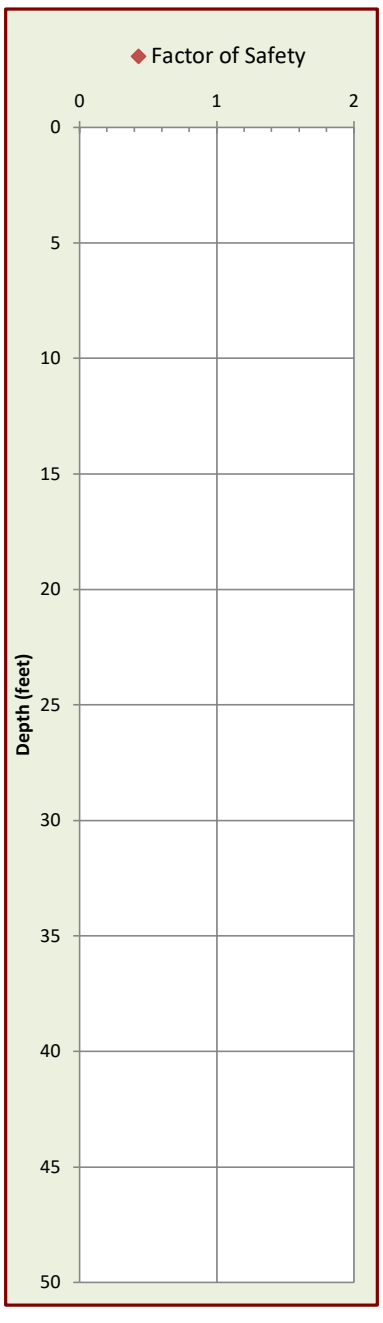
0.0 to **0.0** feet

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







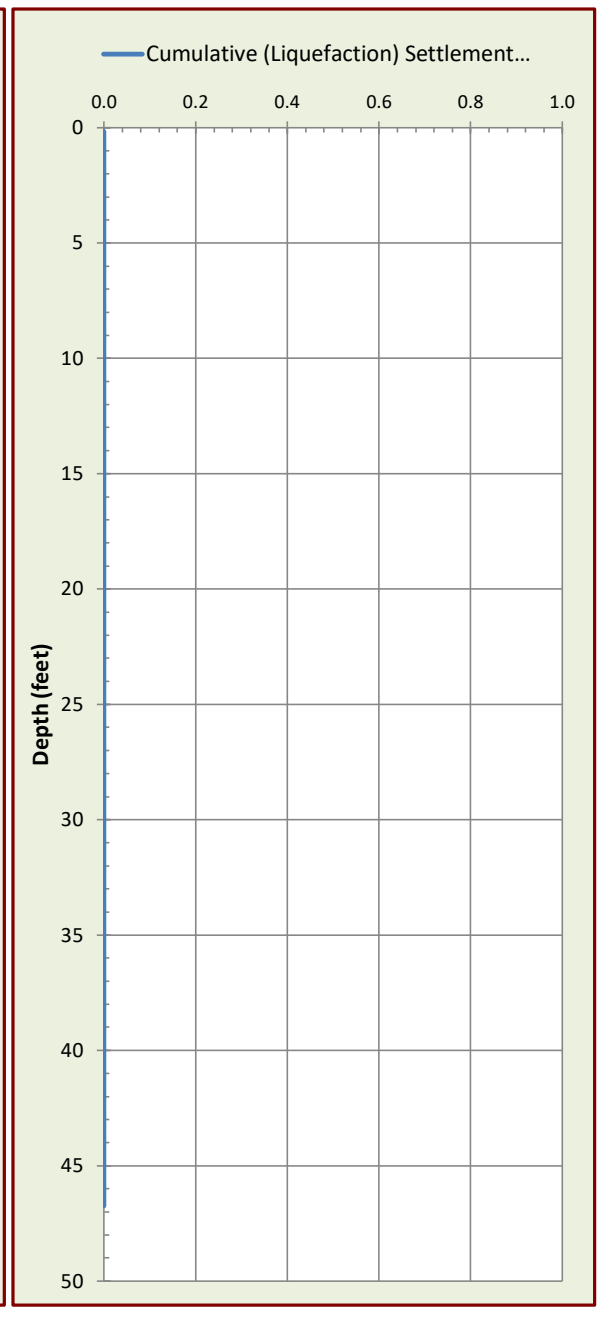


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FIGURE 4N

CPT NO. 14

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

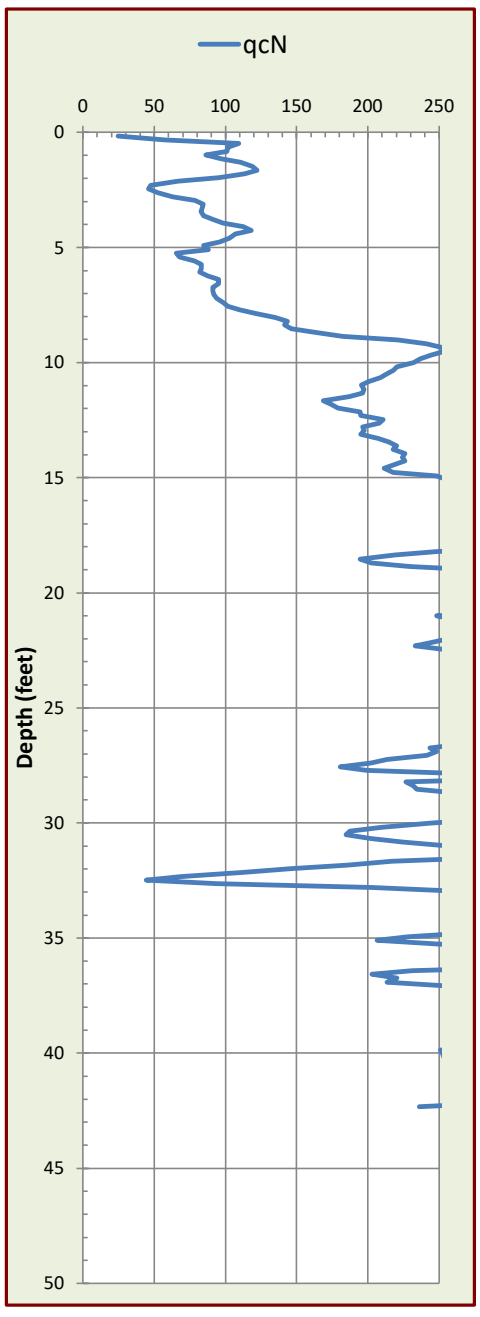
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

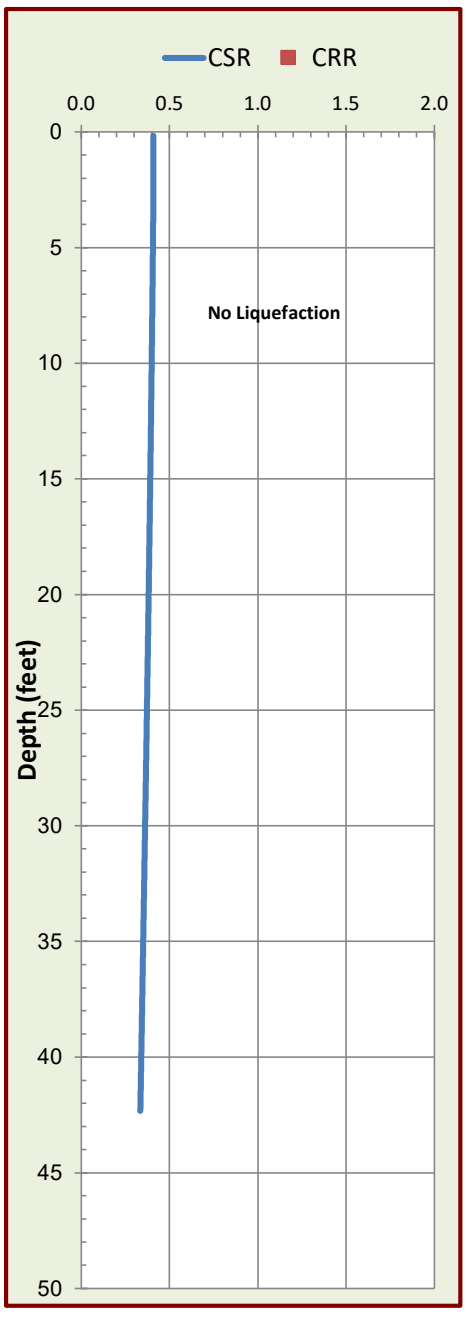
EXPECTED RANGE OF DISPLACEMENT

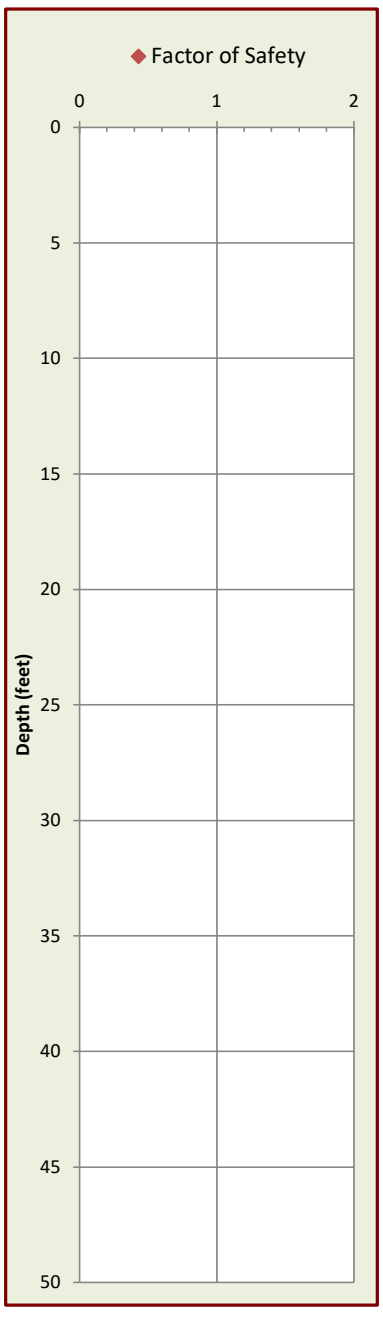
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







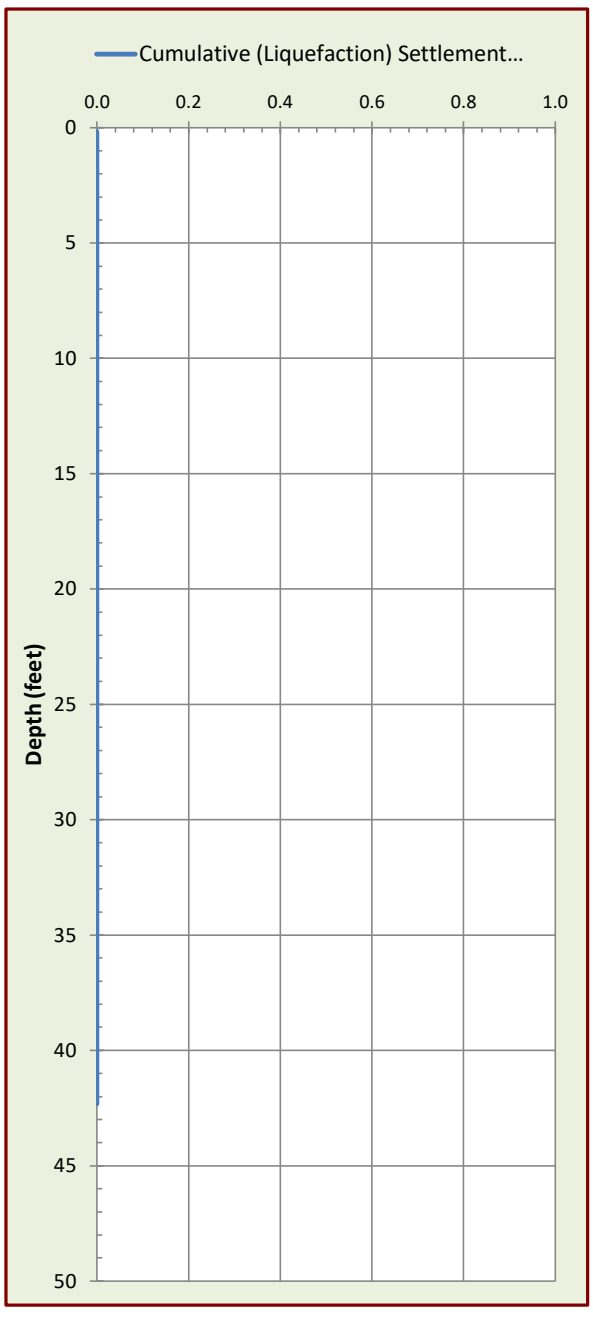


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FIGURE 4O

CPT NO. 15

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.08 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.1 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

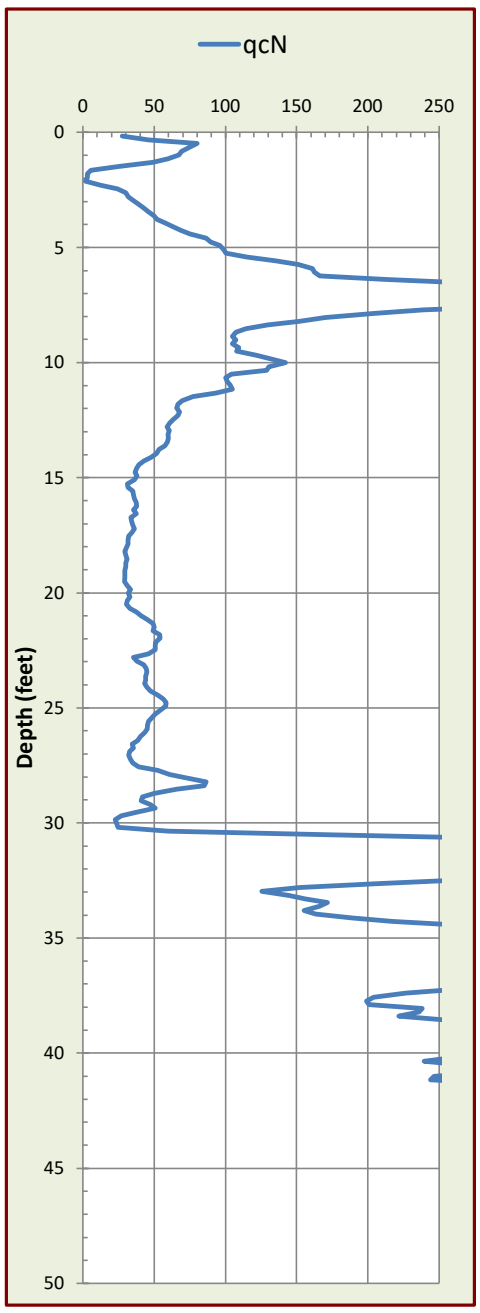
LDI[1]**Corrected for Distance** 0.00 (4 < L/H < 40)

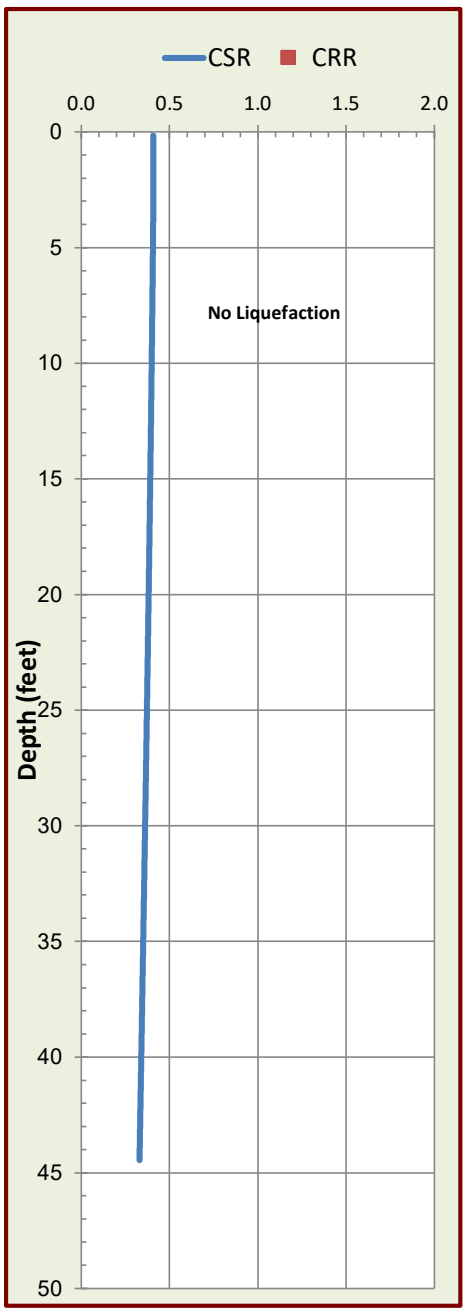
EXPECTED RANGE OF DISPLACEMENT

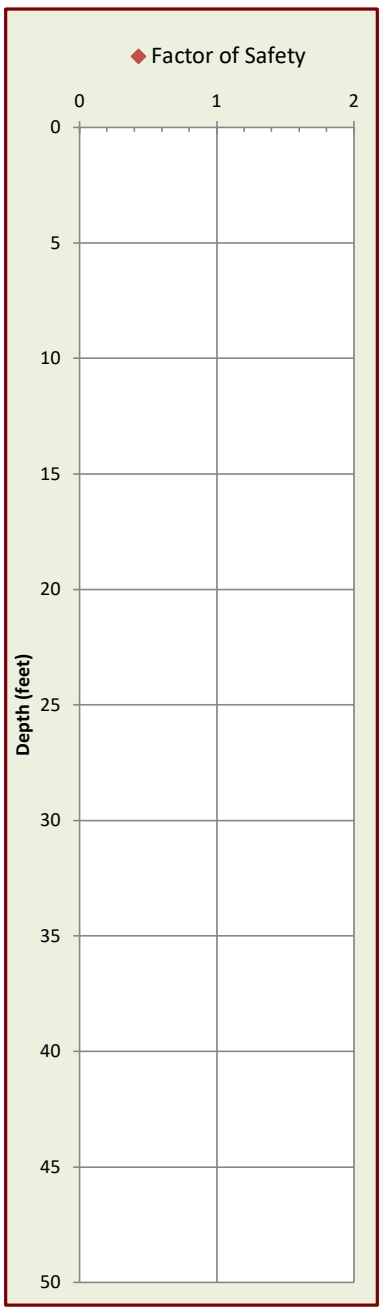
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







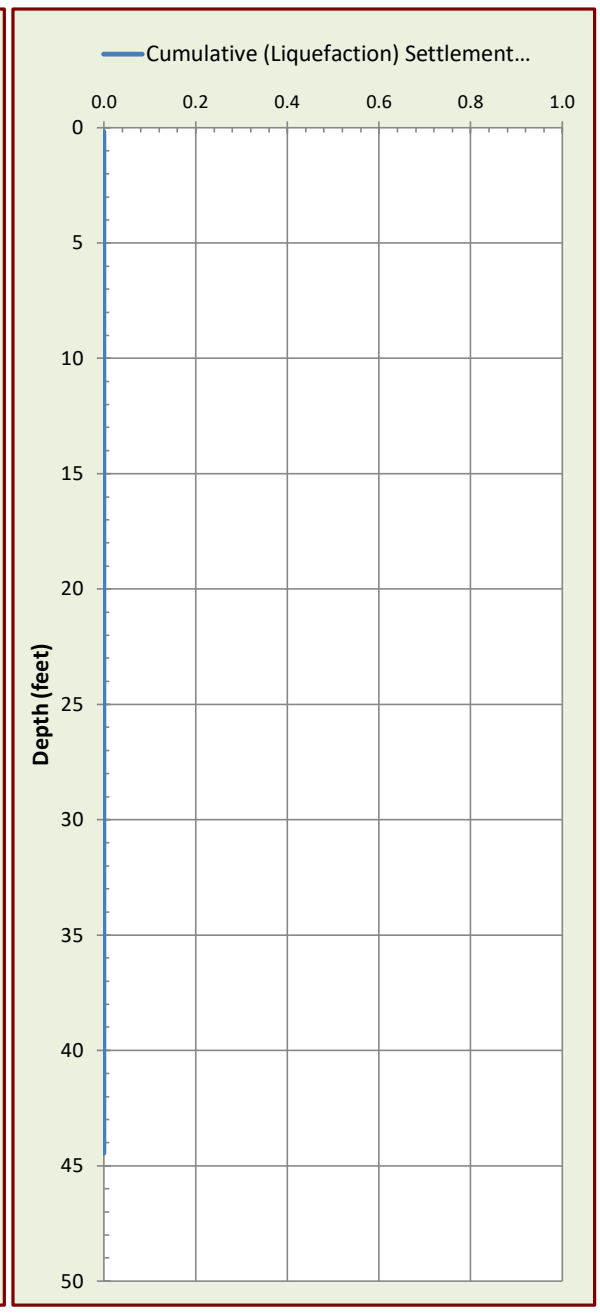


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FIGURE 4P

CPT NO. 16

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.04 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

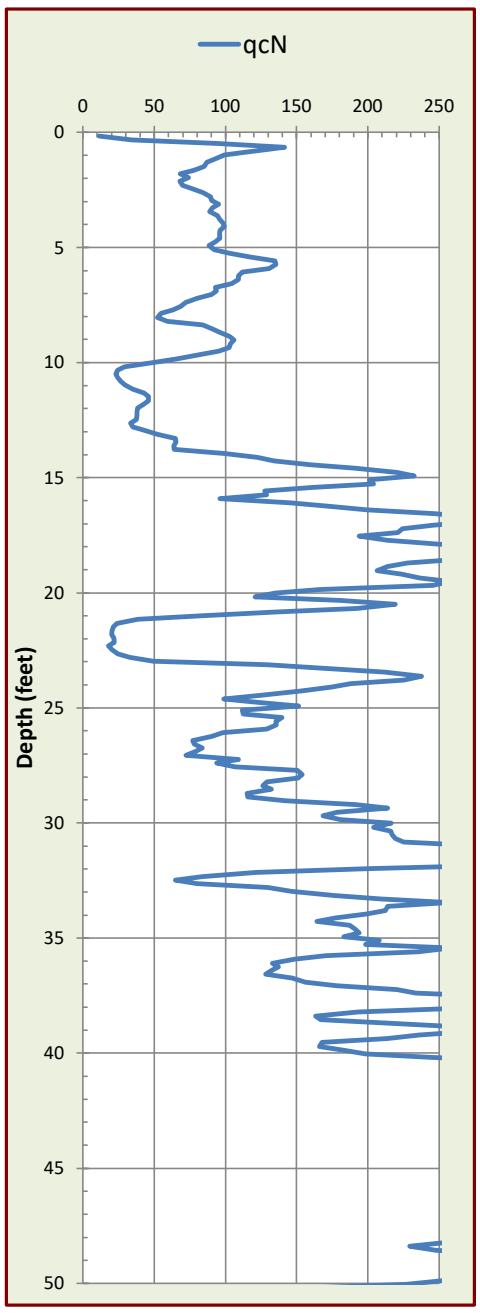
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

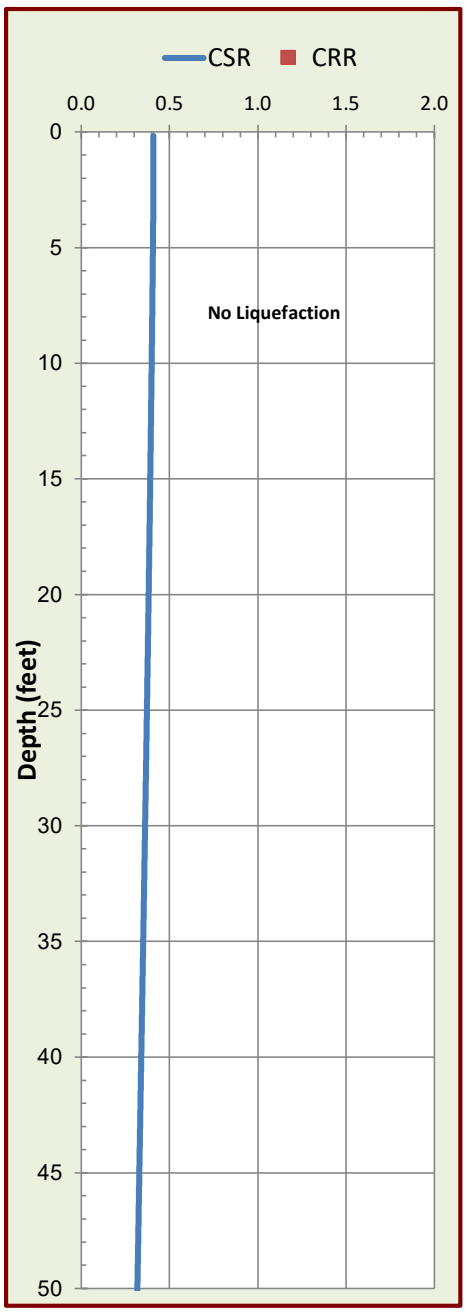
EXPECTED RANGE OF DISPLACEMENT

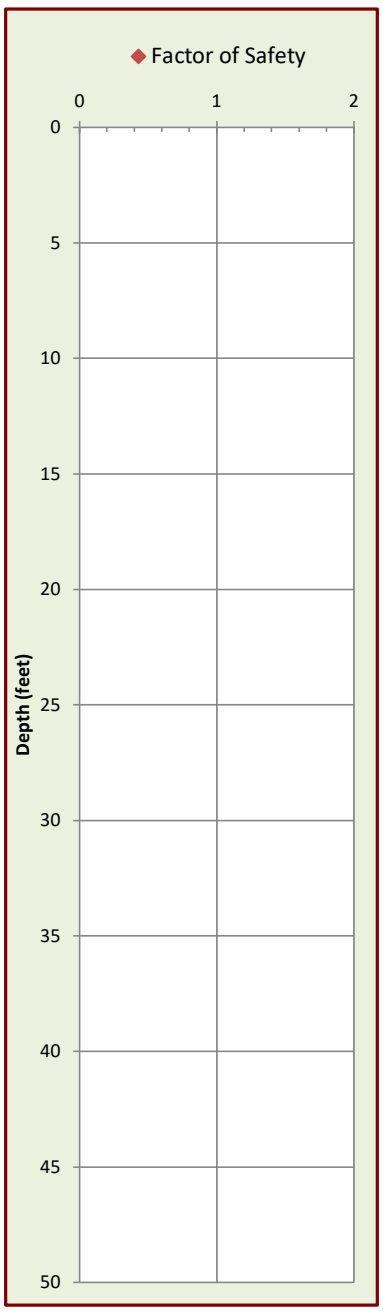
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







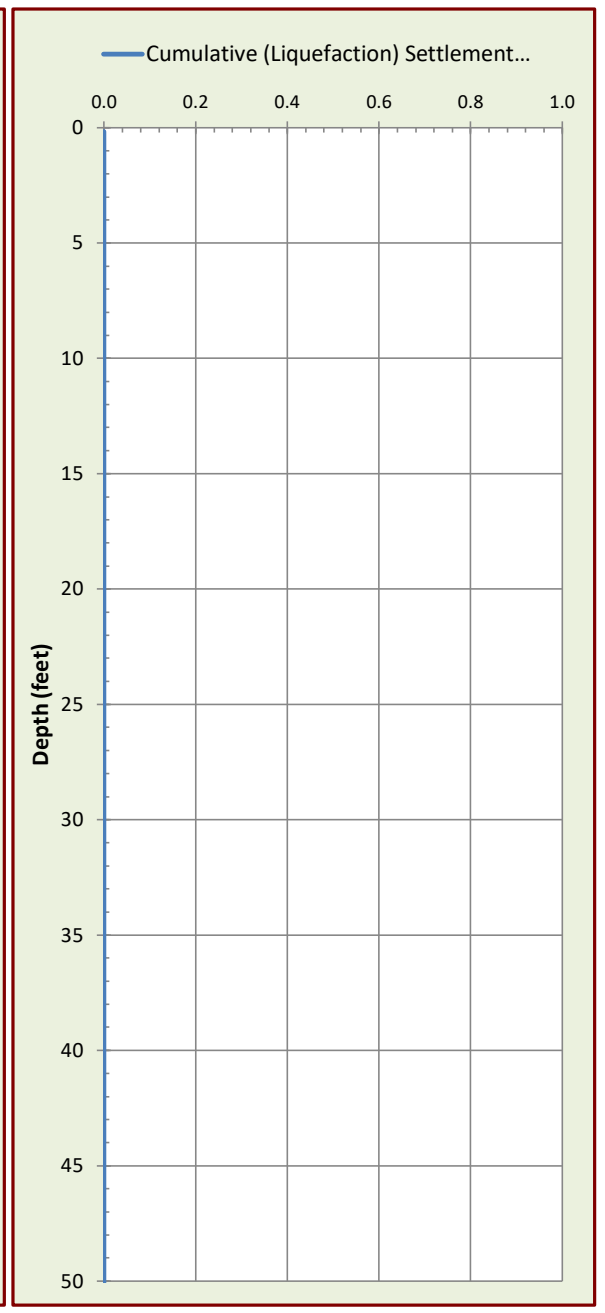


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FIGURE 4Q

CPT NO. 17

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

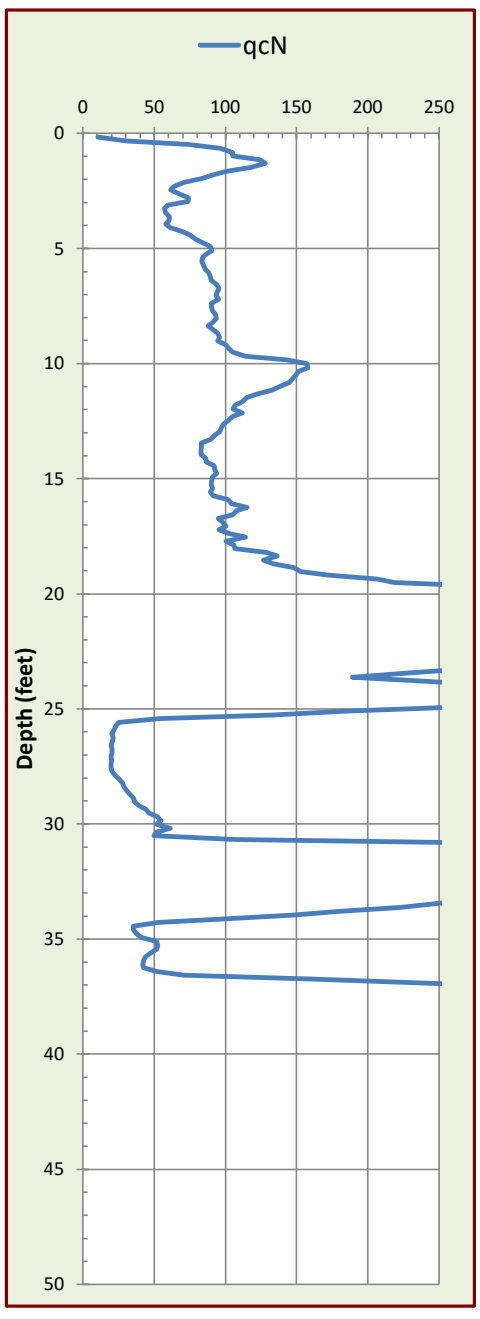
LDI[1]**Corrected for Distance** 0.00 (4 < L/H < 40)

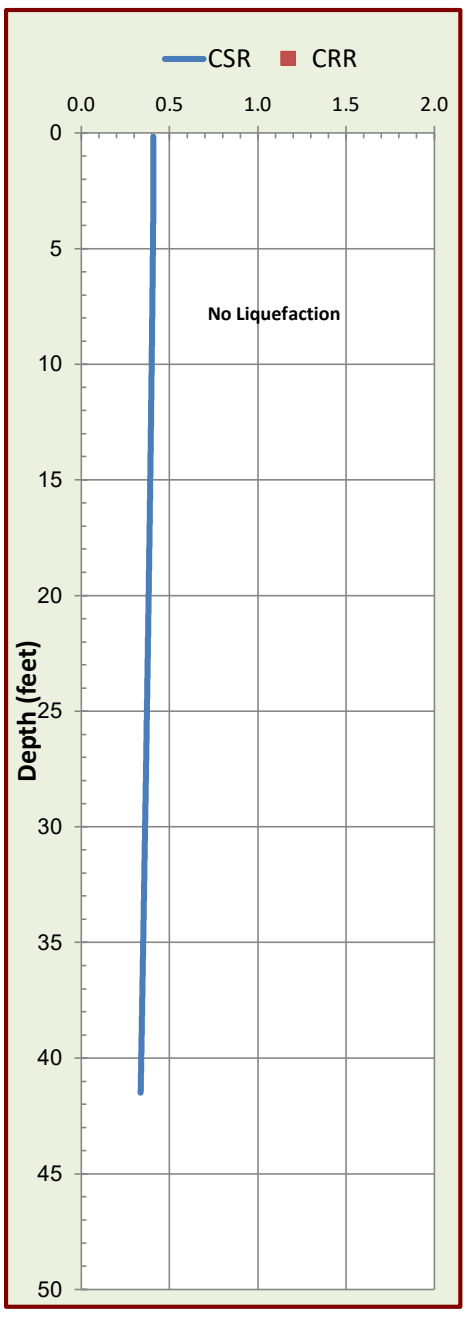
EXPECTED RANGE OF DISPLACEMENT

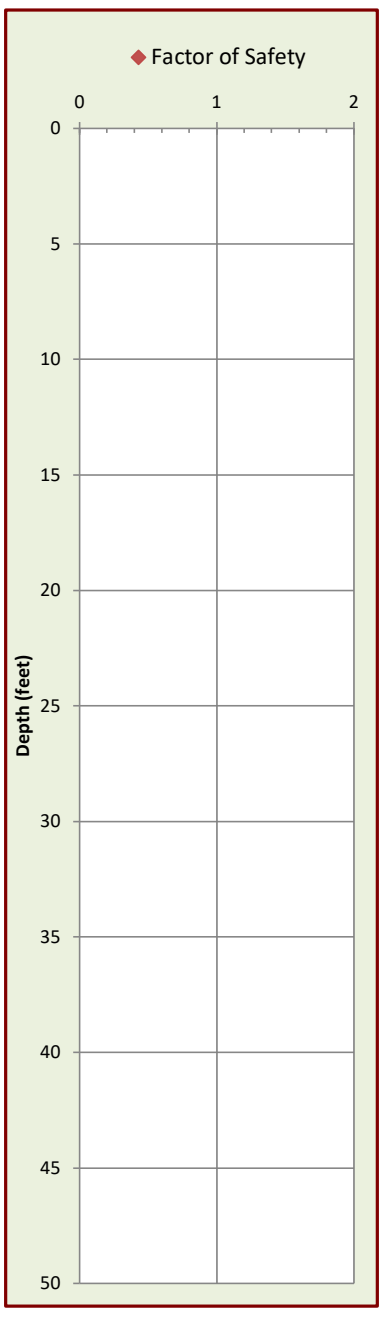
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







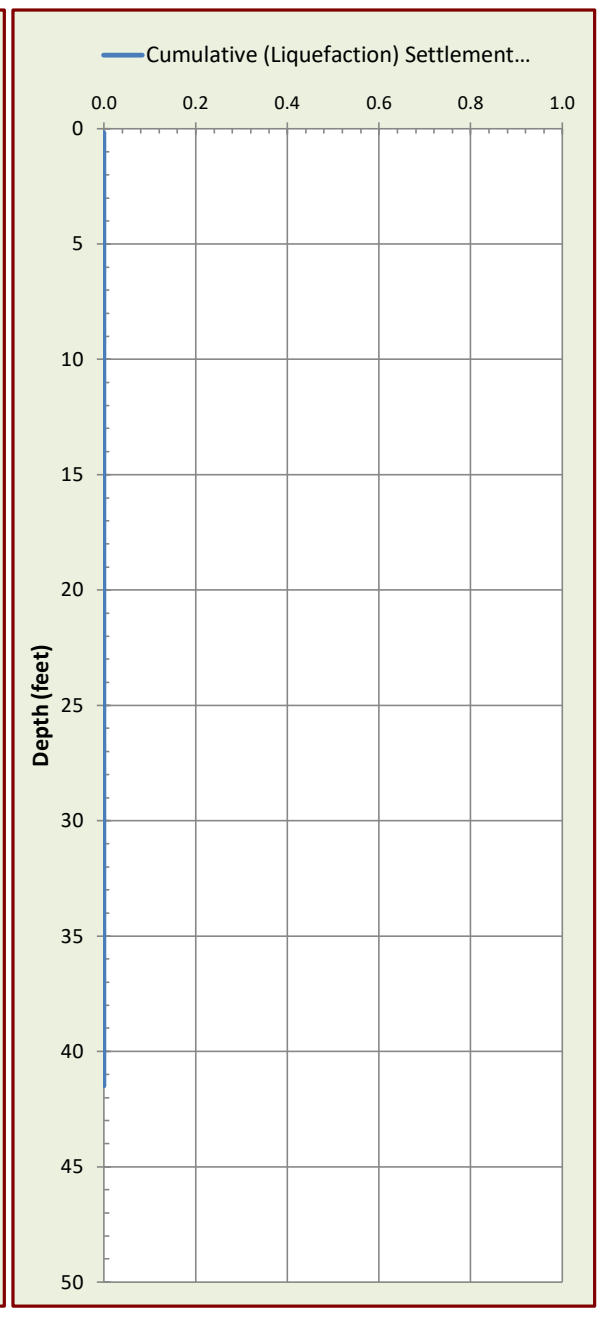


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FIGURE 4R

CPT NO. 18

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.01 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

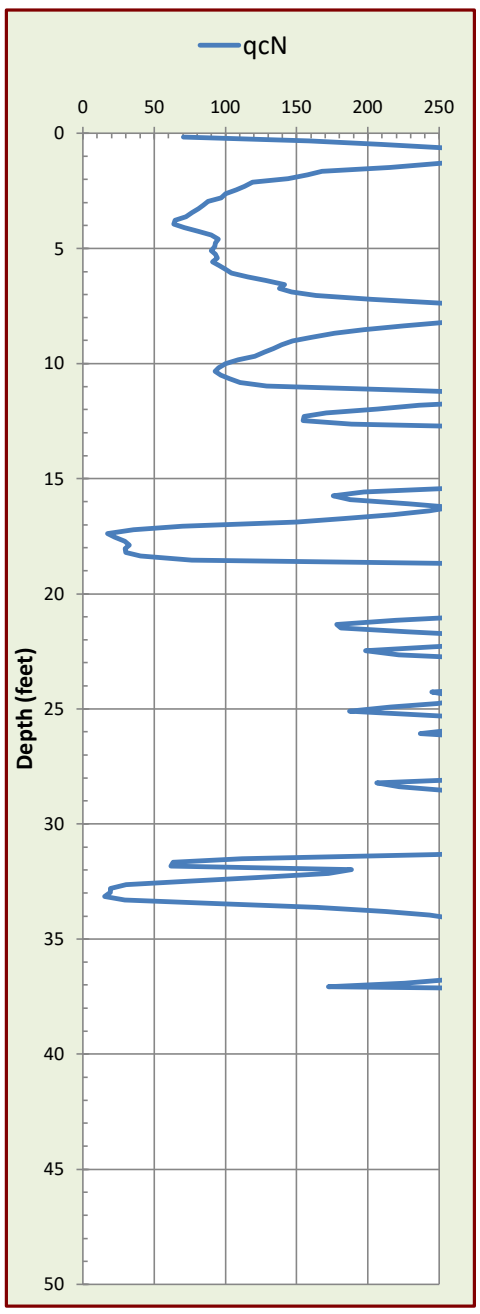
LDI[1] Corrected for Distance 0.00 (4 < L/H < 40)

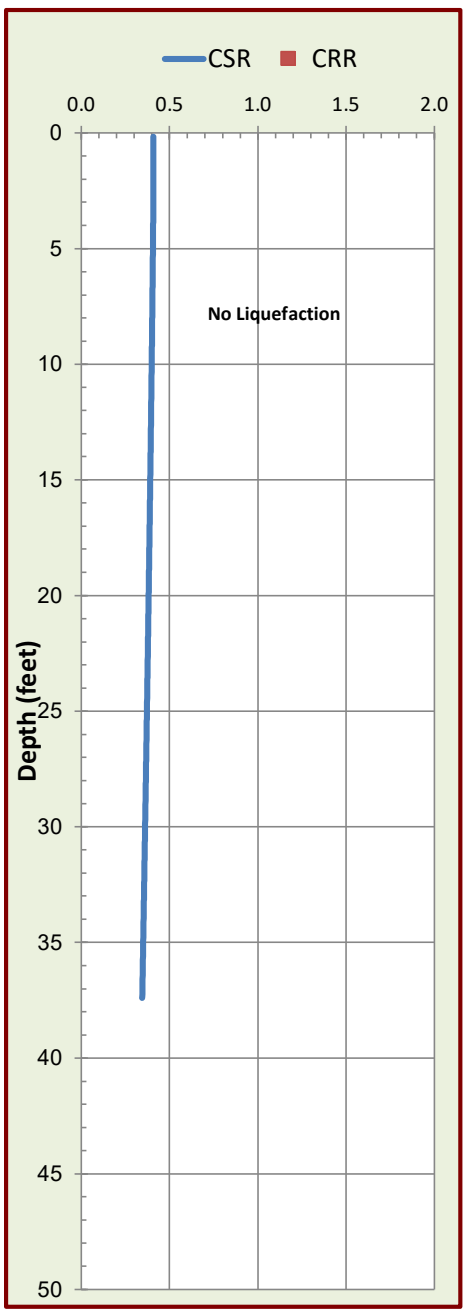
EXPECTED RANGE OF DISPLACEMENT

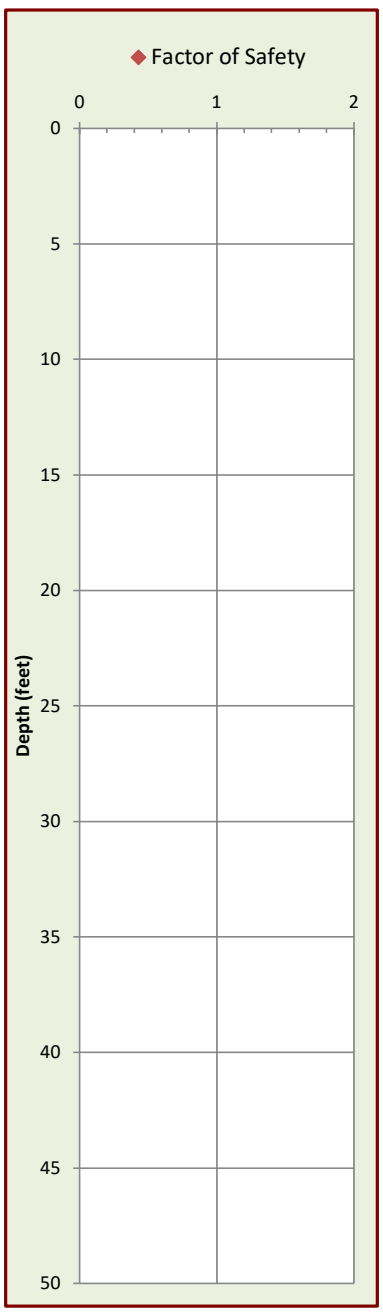
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







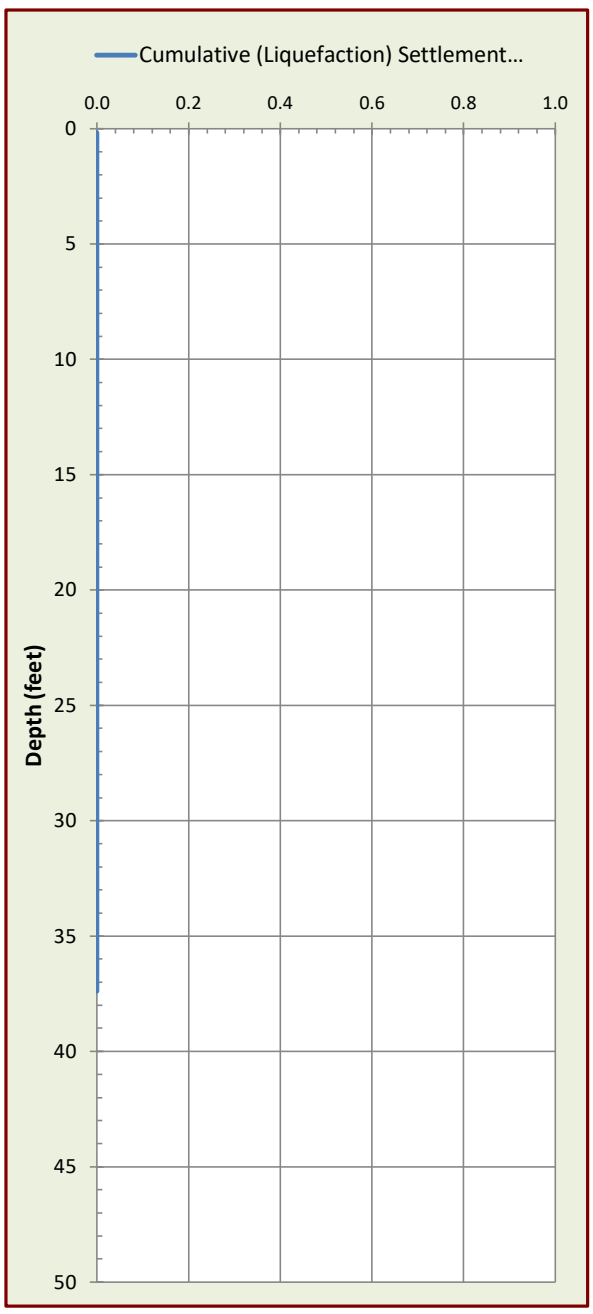


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FIGURE 4S

CPT NO. 19

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PROJECT/CPT DATA

Project Title	**SMP 40**
Project No.	**681-7-1**
Project Manager	**MFR**

SEISMIC PARAMETERS

Controlling Fault	**Calaveras**	
Earthquake Magnitude (Mw)	**7.1**	
PGA (Amax)	**0.629**	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	**45**
Design Water Depth (feet)	**55**
Ave. Unit Weight Above GW (pcf)	**120**
Ave. Unit Weight Below GW (pcf)	**125**

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 **FEET**

0.07 **(Inches)**

LIQUEFACTION SETTLEMENT FROM 50 **FEET**

0.00 **(Inches)**

TOTAL SEISMIC SETTLEMENT 0.1 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI[2] 0.00 **L/H** 1000.0

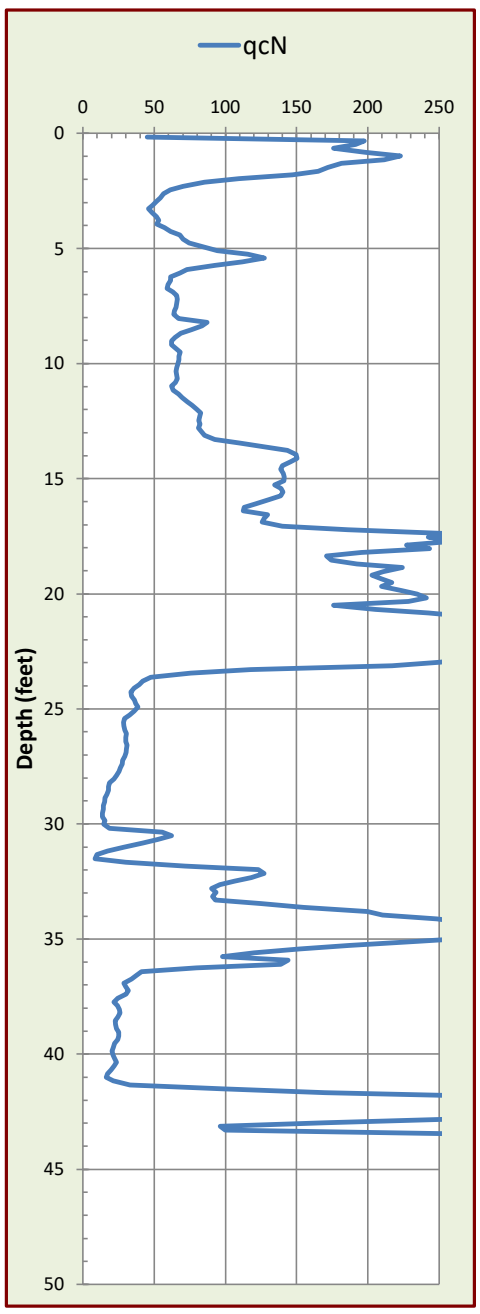
LDI[1]**Corrected for Distance** 0.00 (4 < L/H < 40)

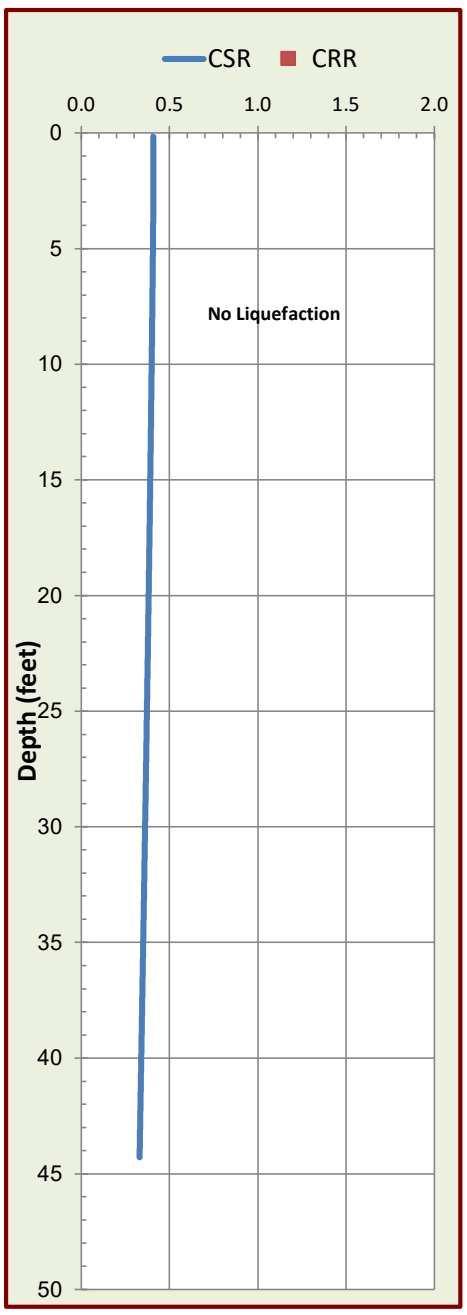
EXPECTED RANGE OF DISPLACEMENT

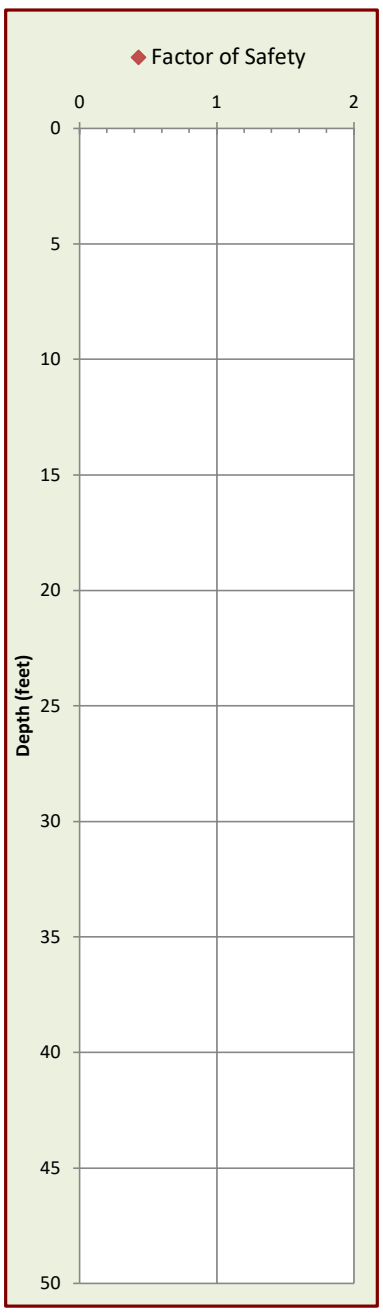
0.0 **to** **0.0** **feet**

[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.







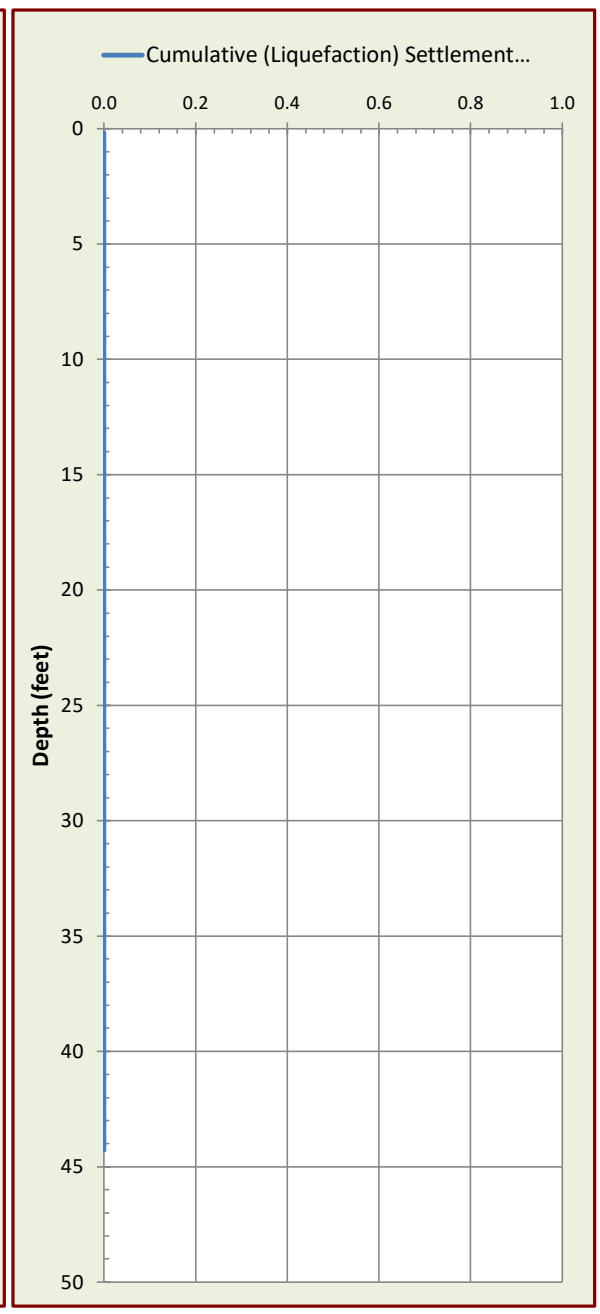


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FIGURE 4T

CPT NO. 20

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PROJECT/CPT DATA

Project Title	SMP 40
Project No.	681-7-1
Project Manager	MFR

SEISMIC PARAMETERS

Controlling Fault	Calaveras	
Earthquake Magnitude (Mw)	7.1	
PGA (Amax)	0.629	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	45
Design Water Depth (feet)	55
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM 55 FEET

0.02 (Inches)

LIQUEFACTION SETTLEMENT FROM 50 FEET

0.00 (Inches)

TOTAL SEISMIC SETTLEMENT 0.0 **INCHES**

POTENTIAL LATERAL DISPLACEMENT

LDI^2 0.00 L/H 1000.0

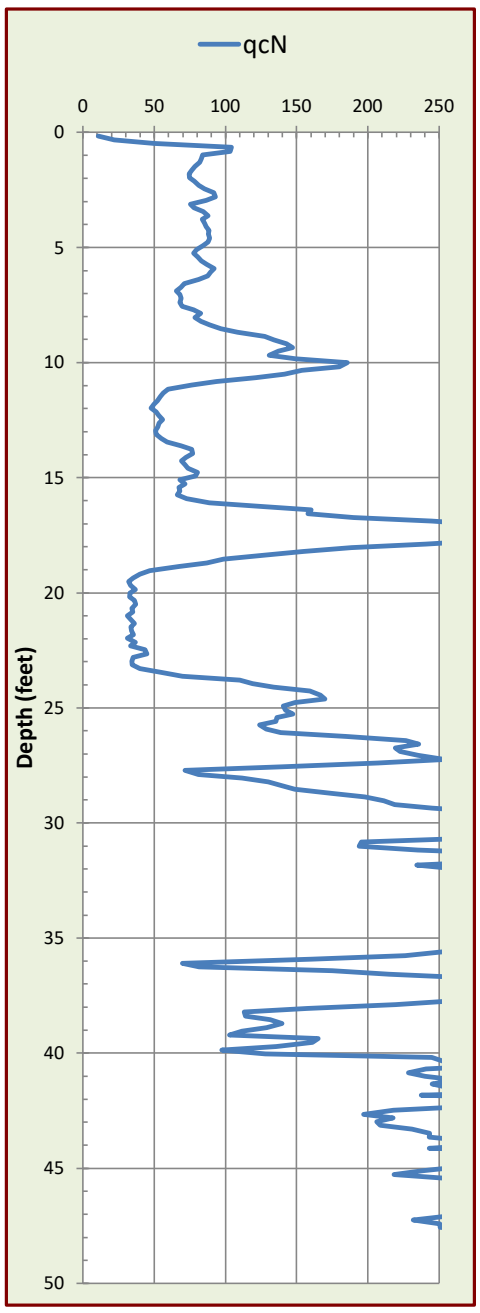
$LDI^1_{\text{Corrected for Distance}}$ 0.00 (4 < L/H < 40)

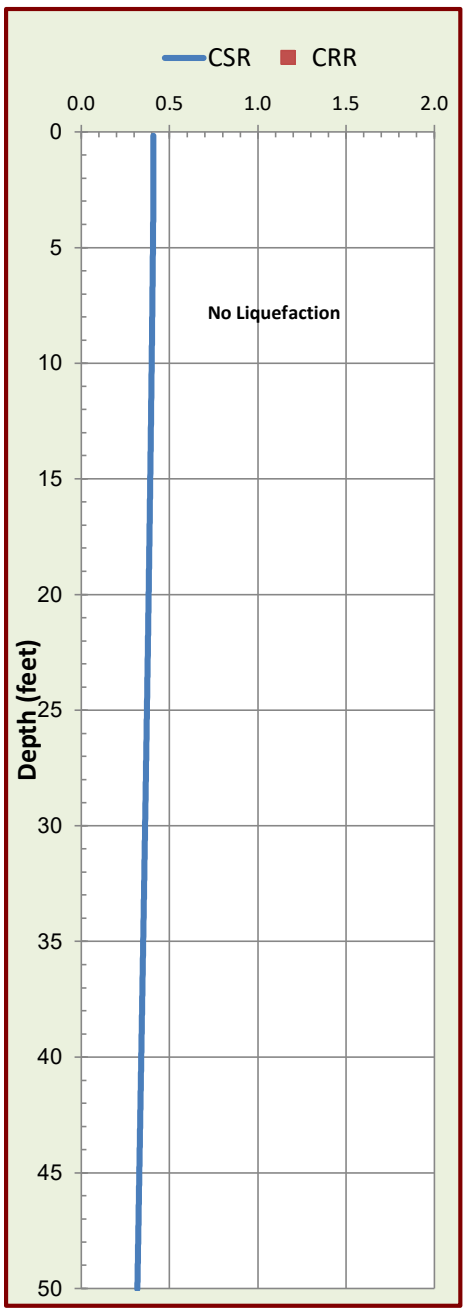
EXPECTED RANGE OF DISPLACEMENT

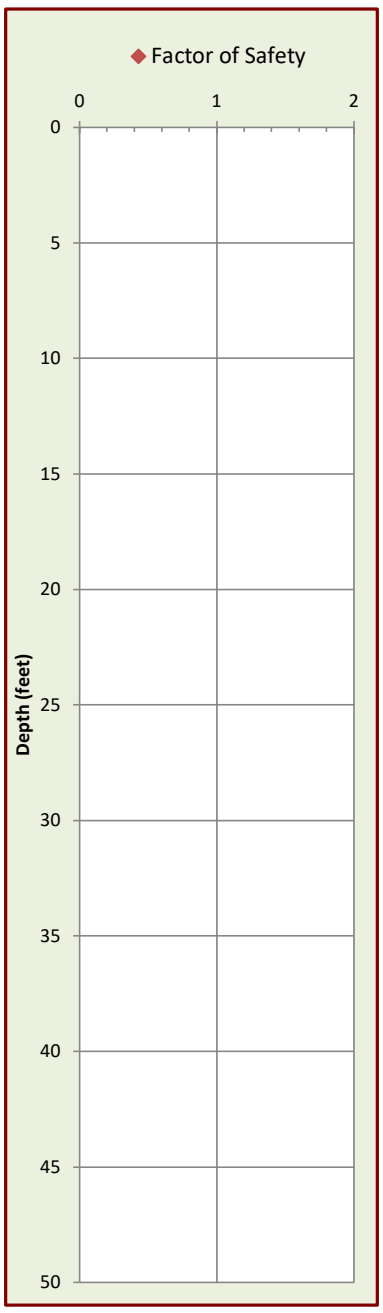
0.0 to 0.0 feet

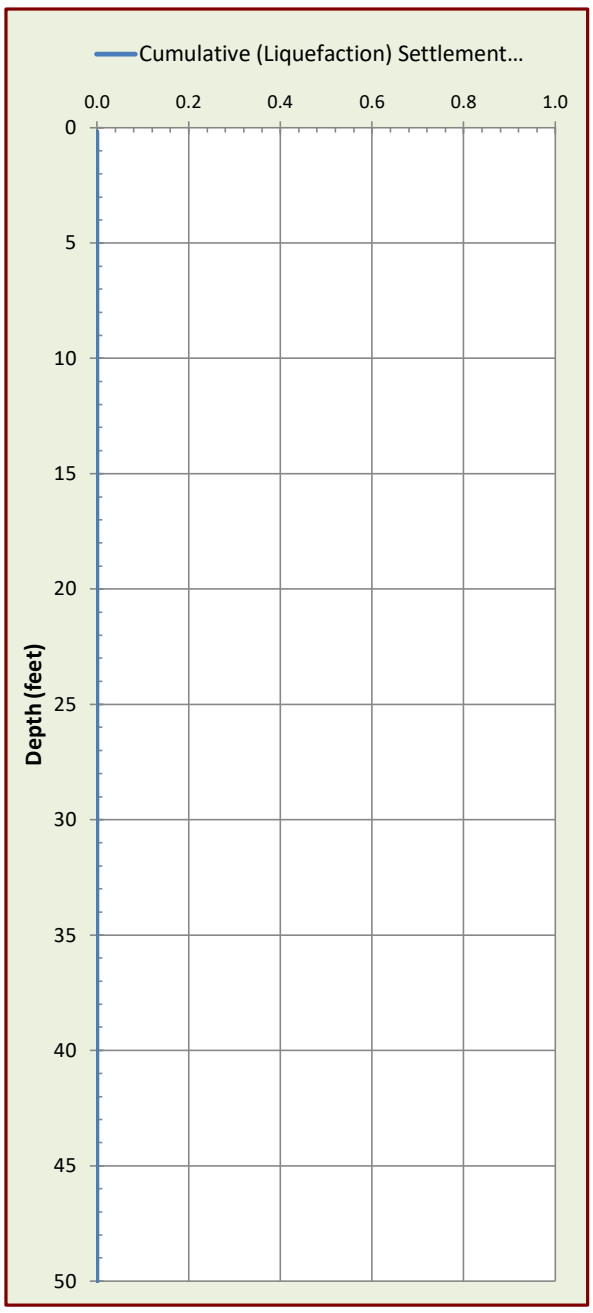
[1]Not Valid for L/H Values < 4 and > 40.

[2]LDI Values Only Summed to 2H Below Grade.









APPENDIX A: FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using truck-mounted, hollow-stem auger drilling equipment and 20-ton truck-mounted Cone Penetration Test equipment. Eighteen 8-inch-diameter exploratory borings were drilled on October 4, 5, 6, 7, 8, and 11, 2021 to depths of 29 to 45 feet. Twenty CPT soundings were also performed in accordance with ASTM D 5778-95 (revised, 2002) on September 16, 17, 22, and 25, 2021, to depths ranging from 37 to 100 feet, or drilling refusal. The approximate locations of exploratory borings and CPTs are shown on the Site Plan, Figure 2. The soils encountered were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). Boring logs, as well as a key to the classification of the soil and bedrock, are included as part of this appendix.

Boring and CPT locations were approximated using existing site boundaries, a hand held GPS unit, and other site features as references. Boring and CPT elevations were not determined. The locations of the borings and CPTs should be considered accurate only to the degree implied by the method used.

Representative soil samples were obtained from the borings at selected depths. All samples were returned to our laboratory for evaluation and appropriate testing. The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D1586). 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows required to drive the last 12 inches. The various samplers are denoted at the appropriate depth on the boring logs.

The CPT involved advancing an instrumented cone-tipped probe into the ground while simultaneously recording the resistance at the cone tip (q_c) and along the friction sleeve (f_s) at approximately 5-centimeter intervals. Based on the tip resistance and tip to sleeve ratio (R_f), the CPT classified the soil behavior type and estimated engineering properties of the soil, such as equivalent Standard Penetration Test (SPT) blow count, internal friction angle within sand layers, and undrained shear strength in silts and clays. A pressure transducer behind the tip of the CPT cone measured pore water pressure (u_2). Graphical logs of the CPT data is included as part of this appendix.

Field tests included an evaluation of the unconfined compressive strength of the soil samples using a pocket penetrometer device. The results of these tests are presented on the individual boring logs at the appropriate sample depths.

Attached boring and CPT logs and related information depict subsurface conditions at the locations indicated and on the date designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these boring and CPT locations. The passage of time may result in altered subsurface conditions due to environmental changes. In addition,

any stratification lines on the logs represent the approximate boundary between soil types and the transition may be gradual.

UNIFIED SOIL CLASSIFICATION (ASTM D-2487-98)

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES			GROUP SYMBOL	SOIL GROUP NAMES & LEGEND
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS >50% OF COARSE FRACTION RETAINED ON NO 4. SIEVE	CLEAN GRAVELS <5% FINES	Cu>4 AND 1<Cc<3	GW	WELL-GRADED GRAVEL
			Cu>4 AND 1>Cc>3	GP	POORLY-GRADED GRAVEL
		GRAVELS WITH FINES >12% FINES	FINES CLASSIFY AS ML OR CL	GM	SILTY GRAVEL
			FINES CLASSIFY AS CL OR CH	GC	CLAYEY GRAVEL
	SANDS >50% OF COARSE FRACTION PASSES ON NO 4. SIEVE	CLEAN SANDS <5% FINES	Cu>6 AND 1<Cc<3	SW	WELL-GRADED SAND
			Cu>6 AND 1>Cc>3	SP	POORLY-GRADED SAND
		SANDS AND FINES >12% FINES	FINES CLASSIFY AS ML OR CL	SM	SILTY SAND
			FINES CLASSIFY AS CL OR CH	SC	CLAYEY SAND
FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT<50	INORGANIC	PI>7 AND PLOTS>"A" LINE	CL	LEAN CLAY
			PI>4 AND PLOTS<"A" LINE	ML	SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OL	ORGANIC CLAY OR SILT
	SILTS AND CLAYS LIQUID LIMIT>50	INORGANIC	PI PLOTS >"A" LINE	CH	FAT CLAY
			PI PLOTS <"A" LINE	MH	ELASTIC SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OH	ORGANIC CLAY OR SILT
HIGHLY ORGANIC SOILS		PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR		PT	PEAT

OTHER MATERIAL SYMBOLS

- Poorly-Graded Sand with Clay
- Clayey Sand
- Sandy Silt
- Artificial/Undocumented Fill
- Poorly-Graded Gravelly Sand
- Topsoil
- Well-Graded Gravel with Clay
- Well-Graded Gravel with Silt
- Sand
- Silt
- Well Graded Gravelly Sand
- Gravelly Silt
- Asphalt
- Boulders and Cobble

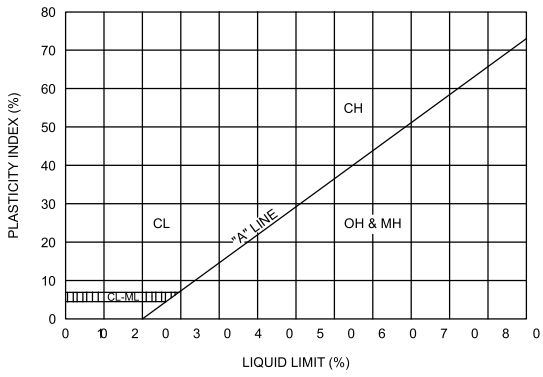
SAMPLER TYPES

- SPT
- Modified California (2.5" I.D.)
- Rock Core
- Shelby Tube
- No Recovery
- Grab Sample

ADDITIONAL TESTS

CA	-	CHEMICAL ANALYSIS (CORROSIVITY)	PI	-	PLASTICITY INDEX
CD	-	CONSOLIDATED DRAINED TRIAXIAL	SW	-	SWELL TEST
CN	-	CONSOLIDATION	TC	-	CYCLIC TRIAXIAL
CU	-	CONSOLIDATED UNDRAINED TRIAXIAL	TV	-	TORVANE SHEAR
DS	-	DIRECT SHEAR	UC	-	UNCONFINED COMPRESSION
PP	-	POCKET PENETROMETER (TSF)	(1.5)	-	(WITH SHEAR STRENGTH IN KSF)
(3.0)	-	(WITH SHEAR STRENGTH IN KSF)			
RV	-	R-VALUE	UU	-	UNCONSOLIDATED UNDRAINED TRIAXIAL
SA	-	SIEVE ANALYSIS: % PASSING #200 SIEVE			
▼	-	WATER LEVEL			

PLASTICITY CHART



PENETRATION RESISTANCE
(RECORDED AS BLOWS / FOOT)

SAND & GRAVEL		SILT & CLAY		
RELATIVE DENSITY	BLOWS/FOOT*	CONSISTENCY	BLOWS/FOOT*	STRENGTH** (KSF)
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4 - 10	SOFT	2 - 4	0.25 - 0.5
MEDIUM DENSE	10 - 30	MEDIUM STIFF	4 - 8	0.5 - 1.0
DENSE	30 - 50	STIFF	8 - 15	1.0 - 2.0
VERY DENSE	OVER 50	VERY STIFF	15 - 30	2.0 - 4.0
		HARD	OVER 30	OVER 4.0

* NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

** UNDRAINED SHEAR STRENGTH IN KIPS/SQ. FT. AS DETERMINED BY LABORATORY TESTING OR APPROXIMATED BY THE STANDARD PENETRATION TEST, POCKET PENETROMETER, TORVANE, OR VISUAL OBSERVATION.

CORNERSTONE EARTH GROUP

LEGEND TO SOIL DESCRIPTIONS

Figure Number A-1

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/4/21 **DATE COMPLETED** 10/4/21
GROUND ELEVATION _____ **BORING DEPTH** 45 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6892916° **LONGITUDE** -121.8296305°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Sandy Lean Clay (CL) [Fill]** hard, dry, brown, fine sand, trace organics, low plasticity							
			Sandy Lean Clay (CL) hard, dry to moist, brown, fine sand, some subangular to subrounded gravel, low plasticity Liquid Limit = 26, Plastic Limit = 17	23	MC-1B	112	8	9		>4.5 ○
				29	MC-2B	99	8			>4.5 ○
	5			35	MC-3B	109	10			>4.5 ○
				39	MC-4B	116	10			>4.5 ○
	10									
				24	MC-5B	112	9			>4.5 ○
	15									
			Clayey Sand with Gravel (SC) medium dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel	20	MC	105	6			
	20									
				69	MC-7B	118	2			
	25									

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CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	30		**Poorly Graded Gravel with Silt and Sand (GP-GM)** dense to very dense, dry, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/5"	MC				
	35			71	MC-9B	106	8		
	40			61	MC				
			becomes medium dense	39	MC-11B	108	7		
	45		**Lean Clay with Sand (CL)** very stiff, moist, brown, fine sand, low to moderate plasticity Bottom of Boring at 45.0 feet.						
	50								
	55								

UNDRAINED SHEAR STRENGTH, ksf
- ○ HAND PENETROMETER
- △ TORVANE
- ● UNCONFINED COMPRESSION
- ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL

1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/6/21 **DATE COMPLETED** 10/6/21
GROUND ELEVATION _____ **BORING DEPTH** 29.4 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6888929° **LONGITUDE** -121.8274288°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, dry, brown, fine sand, some fine subangular to subrounded gravel	19	MC-1B	87	8			
				20	MC-2B	92	7			
	5			22	MC-3B	97	7			
			Sandy Lean Clay (CL) hard, dry, brown, fine to coarse sand, some fine to coarse subangular to subrounded gravel, low plasticity	46	MC-4B	104	9			>4.5 ○
	10									
				26	MC					>4.5 ○
	15									
			Clayey Sand with Gravel (SC) medium dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel	40	MC-6B	118	6			
	20									
			Poorly Graded Sand with Silt and Gravel (SP-SM) very dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel, some cobbles	53	MC					
	25									

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BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL) 1.0 2.0 3.0 4.0
			Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/5"	MC-8B	115	4			
			Bottom of Boring at 29.4 feet.							
	30									
	35									
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-3

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/6/21 **DATE COMPLETED** 10/6/21
GROUND ELEVATION _____ **BORING DEPTH** 35 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6893052° **LONGITUDE** -121.8251761°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) loose to medium dense, dry, brown, fine sand, some fine subangular to subrounded gravel	13	MC-1B		7			
				18	MC-2B	106	7			
	5			19	MC-3B	96	6			
			Sandy Lean Clay (CL) hard, moist, brown, fine to coarse sand, some fine to coarse subangular to subrounded gravel, low plasticity	35	MC-4B	113	11			>4.5 ○
	10									
				22	MC-5B	109	9			>4.5 ○
	15									
				22	MC					>4.5 ○
	20									
				76	MC-7B	117	3			
	25									

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CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-3

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, dry, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles						
			Poorly Graded Sand with Silt and Gravel (SP-SM) medium dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel, some cobbles	51	MC				
	30		**Poorly Graded Gravel with Silt and Sand (GP-GM)** dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	65	MC-9B	113	5		
	35		Bottom of Boring at 35.0 feet.						
	40								
	45								
	50								
	55								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-4

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/6/21 **DATE COMPLETED** 10/6/21
GROUND ELEVATION _____ **BORING DEPTH** 33 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6887865° **LONGITUDE** -121.8233206°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0		**Silty Sand (SM) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, moist, brown, fine to medium sand, some fine subangular to subrounded gravel	27	MC-1B	98	8			
				37	MC-2B		2			
	5		**Silty Sand with Gravel (SM)** medium dense, dry, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	19	MC-3B	94	7			>4.5 ○
			Sandy Lean Clay (CL) hard, moist, brown, fine to coarseedium sand, some fine subangular to subrounded gravel, low plasticity	26	MC-4B	113	8			>4.5 ○
	10									
	15		**Poorly Graded Sand with Silt and Gravel (SP-SM)** dense to medium dense, dry, brown, fine to medium sand, fine to coarse subrounded to subangular gravel, some cobbles	60	MC					
				20	○ NR					
	20		**Sandy Lean Clay (CL)** hard, moist, brown, fine to medium sand, low plasticity	11	SPT-6		18			
				18	MC					>4.5 ○
	25									

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UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-4

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, low plasticity							
	30		**Silty Sand with Gravel (SM)** loose to medium dense, moist, brown, fine to coarse sand, fine to coarse subrounded to subangular gravel	17	MC-8B	104	11			
				17	SPT					
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	38	SPT-10		7			
	35		Bottom of Boring at 33.0 feet.							
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:51 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-5

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/5/21 **DATE COMPLETED** 10/5/21
GROUND ELEVATION _____ **BORING DEPTH** 30 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6892805° **LONGITUDE** -121.8218642°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Silty Sand with Gravel (SM) [Fill]** loose, dry, brown, fine to medium sand, fine to coarse subrounded to subangular gravel, trace organics							
			Silty Sand with Gravel (SM) loose to medium dense, moist, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	15	MC-1B	107	3			
				19	MC-2B	103	4			
	5			24	MC-3B	94	11			>4.5 ○
			Sandy Lean Clay (CL) hard, moist, brown, fine sand, low plasticity	17	MC-4B	103	11			>4.5 ○
	10									
				18	MC-5B	98	8			>4.5 ○
	15		**Lean Clay with Sand (CL)** hard, moist, brown, fine sand, low to moderate plasticity	41	MC					>4.5 ○
	20									
				30	MC-7B	109	14			>4.5 ○
	25									

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BORING NUMBER EB-5

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Lean Clay with Sand (CL) hard, moist, brown, fine sand, low to moderate plasticity							
			Silty Sand with Gravel (SM) medium dense, moist, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	52	MC					
	30		Bottom of Boring at 30.0 feet.							
	35									
	40									
	45									
	50									
	55									

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BORING NUMBER EB-6

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/4/21 **DATE COMPLETED** 10/4/21
GROUND ELEVATION _____ **BORING DEPTH** 45 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc.
LATITUDE 37.6887477° **LONGITUDE** -121.8207283°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Clayey Sand (SC) [Fill]** medium dense, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, dry, brown, fine sand, some fine subangular to subrounded gravel	20	MC-1B	99	7			
				61	MC-2B		2			
	5		**Silty Sand with Gravel (SM)** dense to medium dense, moist, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	25	MC-3B	102	5			
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	17	MC-4B	100	7			>4.5 ○
	10									
				53	MC					>4.5 ○
	15									
				23	MC-6B	109	11			>4.5 ○
	20									
				26	MC					>4.5 ○
	25									

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BORING NUMBER EB-6

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity							
	30		**Poorly Graded Gravel with Silt and Sand (GP-GM)** dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	66	MC-8B	128	6			
	35		**Poorly Graded Sand with Silt and Gravel (SP-SM)** medium dense to dense, dry, brown, fine to medium sand, fine to coarse subangular to subrounded gravel, some cobbles	38	MC					
				34	SPT					
	40			50	MC-11B	117	7			
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	82	MC					
	45		Bottom of Boring at 45.0 feet.							
	50									
	55									

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BORING NUMBER EB-7

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/5/21 **DATE COMPLETED** 10/5/21
GROUND ELEVATION _____ **BORING DEPTH** 29.9 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6892126° **LONGITUDE** -121.8189084°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0	**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
		Clayey Sand (SC) loose, moist, brown, fine sand, some fine subangular to subrounded gravel	17	MC-1B	95	5			
			15	MC-2B	97	4			
	5	**Sandy Lean Clay (CL)** hard, moist, brown, fine to coarse sand, some subangular to subrounded gravel, low plasticity	25	MC-3B	98	7			>4.5 ○
			23	MC-4B	98	7			>4.5 ○
	10								
			52	MC-5B		2			>4.5 ○
	15	**Poorly Graded Gravel with Silt and Sand (GP-GM)** medium dense to dense, dry, gray and brown, fine to coarse subangular to subrounded gravel, fine to coarse sand, some cobbles							
			27	MC					
	20		44	SPT					
			31	MC-8B	108	2			
	25		34	SPT					

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

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BORING NUMBER EB-7

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0, 2.0, 3.0, 4.0)
			Poorly Graded Sand with Silt and Gravel (SP-SM) very dense, moist, brown, fine to coarse sand, subangular to subrounded gravel, some cobbles	50 5"	MC					
	30		Bottom of Boring at 29.9 feet.							
	35									
	40									
	45									
	50									
	55									

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BORING NUMBER EB-8

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/5/21 **DATE COMPLETED** 10/5/21
GROUND ELEVATION _____ **BORING DEPTH** 40 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6890091° **LONGITUDE** -121.8170889°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS **AT TIME OF DRILLING** Not Encountered
NOTES _____ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0	**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
		Clayey Sand (SC) loose, moist, brown, fine sand, some fine subangular to subrounded gravel	13	MC-1B	93	5			
			11	MC-2B	101	4			
	5		12	MC-3B	100	5			
		Sandy Lean Clay (CL) hard, dry, brown, fine to coarse sand, some subangular to subrounded gravel, low plasticity	20	MC-4B	109	9			>4.5
	10								
		Poorly Graded Sand with Silt and Gravel (SP-SM) medium dense, dry, brown, fine to coarse sand, fine subangular to subrounded gravel	27	MC-5B	117	9			>4.5
	15	**Sandy Lean Clay (CL)** hard, moist, brown, fine to coarse sand, some subangular to subrounded gravel, low plasticity							
		Poorly Graded Sand with Silt and Gravel (SP-SM) medium dense, dry, brown, fine to coarse sand, fine subangular to subrounded gravel	44	MC-6B	114	4			
	20		23	SPT					
		Sandy Lean Clay (CL) hard, moist, brown, fine to coarse sand, low plasticity	13	SPT					>4.5
			24	MC-9B	107	4			
	25	**Poorly Graded Sand with Silt and Gravel (SP-SM)**	24	SPT					

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UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

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BORING NUMBER EB-8

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			medium dense, dry, brown, fine to coarse sand, fine subangular to subrounded gravel							
			Sandy Lean Clay (CL) hard, moist, brown, fine to coarse sand, low plasticity	45	SPT					>4.5 ○
			Poorly Graded Sand with Silt and Gravel (SP-SM) medium dense, moist, brown, fine to coarse sand, fine subangular to subrounded gravel	53	MC					
	30									
				50	MC-13B	117	7			
	35									
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, moist, gray and brown, subangular to subrounded gravel, fine to coarse sand, some cobbles							
				84	MC-14B	129	5			
	40		Bottom of Boring at 40.0 feet.							
	45									
	50									
	55									

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BORING NUMBER EB-9

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/4/21 **DATE COMPLETED** 10/4/21
GROUND ELEVATION _____ **BORING DEPTH** 34.9 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc.
LATITUDE 37.6888517° **LONGITUDE** -121.8150165°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0	**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
		Clayey Sand (SC) loose, moist, brown, fine sand, some fine subangular to subrounded gravel	13	MC-1B	99	5		47	
			23	MC-2B		5			
	5	**Silty Sand (SM)** loose, moist, brown, fine sand, some fine subangular to subrounded gravel	12	MC-3B	102	4			
		Sandy Lean Clay (CL) hard, moist, brown, fine sand, some fine subangular to subrounded gravel, low plasticity	10	MC-4B	104	9			>4.5
	10								
	15		27	MC-5B	112	8			>4.5
		Poorly Graded Gravel with Silt and Sand (GP-GM) dense, dry, gray and brown, subangular to subrounded gravel, fine to coarse sand, some cobbles	62	MC-6B	119	2			
	20								
		Lean Clay with Sand (CL) very stiff, moist, brown, fine sand, low plasticity	16	MC					
	25		22	MC-8B	112	18			

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UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

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BORING NUMBER EB-9

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Sandy Silt (ML) hard, moist, brown, fine sand, low plasticity Liquid Limit = 22, Plastic LImit = 19	24	MC-9B	107	8	3		>4.5 ○
			Poorly Graded Gravel with Silt and Sand (GP-GM) medium dense, moist, gray and brown, fine to coarse subangular to subrounded gravel, fine to coarse sand, some cobbles	57	MC					
	30		becomes very dense	50/5"	MC-11B	120	3			
	35		Bottom of Boring at 34.9 feet.							
	40									
	45									
	50									
	55									

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BORING NUMBER EB-10

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/11/21 **DATE COMPLETED** 10/11/21
GROUND ELEVATION _____ **BORING DEPTH** 41.5 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6798768° **LONGITUDE** -121.8132885°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Silty Sand (SM) [Fill]** loose, dry, brown, fine sand, trace organics							
			Silty Sand with Gravel (SM) loose to medium dense, moist, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	17	MC-1B	99	3			
				14	MC-2B	98	5			
	5			28	MC-3B	103	5			
				24	MC-4B	100	4			
	10		**Poorly Graded Gravel with Silt and Sand (GP-GM)** medium dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	18	MC-5B	107	9			>4.5 ○
	15		**Sandy Lean Clay (CL)** hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	29	MC					>4.5 ○
	20		**Lean Clay with Sand (CL)** hard, moist, brown, fine sand, low plasticity	14	MC-7B	119	13			○
	25		*Continued Next Page*							

BORING NUMBER EB-10

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	30		**Lean Clay with Sand (CL)** hard, moist, brown, fine sand, low plasticity	36	MC					>4.5 ○
	35		**Sandy Lean Clay (CL)** very stiff, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	25	MC-9B	113	15			○
	40		**Poorly Graded Gravel with Silt and Sand (GP-GM)** medium dense to dense, moist, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	38	MC-10B	96	2		6	
				42	SPT					
			Bottom of Boring at 41.5 feet.							
	45									
	50									
	55									

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BORING NUMBER EB-11

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/11/21 **DATE COMPLETED** 10/11/21
GROUND ELEVATION _____ **BORING DEPTH** 34.9 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc.
LATITUDE 37.6776892° **LONGITUDE** -121.8131296°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
AT TIME OF DRILLING Not Encountered
NOTES _____
AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, dry, brown, fine sand, some fine subangular to subrounded gravel	34	MC-1B	106	6			>4.5 ○
				23	MC-2B	106	5			>4.5 ○
	5		**Silty Sand (SM)** medium dense, moist, brown, fine to medium sand, some fine subrounded to subangular gravel	23	MC-3B	107	3			>4.5 ○
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	20	MC-4B	106	8			>4.5 ○
	10									
	15		**Poorly Graded Gravel with Silt and Sand (GP-GM)** very dense, dry, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand	50/5"	MC					
				24	MC-6B	102	13			○
	20		**Lean Clay with Sand (CL)** hard, moist, brown, fine to medium sand, low plasticity							
				38	MC					>4.5 ○
	25			50/6"	SPT					

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CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-11

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
			Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles							
	30		**Clayey Sand (SC)** medium dense, moist, brown, fine sand, some fine to coarse subangular to subrounded gravel	26	MC-9B	117	8		22	
			Clayey Sand with Gravel (SC) medium dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel	50 5"	MC					
	35		Bottom of Boring at 34.9 feet.							
	40									
	45									
	50									
	55									

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-12

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/7/21 **DATE COMPLETED** 10/7/21
GROUND ELEVATION _____ **BORING DEPTH** 31.5 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6787337° **LONGITUDE** -121.8121573°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0	**Silty Sand with Gravel (SM) [Fill]** medium dense, dry, brown, fine sand, trace organics						
		Poorly Graded Gravel with Silt and Sand (GP-GM) medium dense to dense, dry, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	48	MC-1B	119	2		
			62	MC-2B	123	2		
	5		60	MC-3B	117	2		
			53	MC-4B	126	3		
	10							
		Lean Clay with Sand (CL) stiff, moist, brown, fine to medium sand, low plasticity	9	MC-5B	119	14		
	15							
		Poorly Graded Gravel with Silt and Sand (GP-GM) medium dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand	43	MC-6B	125	5		
	20		9	SPT				
		Clayey Sand with Gravel (SC) medium dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel	21	MC-8B	123	10		
	25							

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UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-12

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Clayey Sand with Gravel (SC) medium dense, moist, brown, fine to coarse sand, fine to coarse subangular to subrounded gravel							
	30		**Poorly Graded Sand with Silt and Gravel (SP-SM)** medium dense to dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel	38	MC					
				37	SPT-10		8			
			Bottom of Boring at 31.5 feet.							
	35									
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-13

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/7/21 **DATE COMPLETED** 10/7/21
GROUND ELEVATION _____ **BORING DEPTH** 44.9 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6776364° **LONGITUDE** -121.8110381°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0		**Clayey Sand (SC) [Fill]** loose, dry, dark brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, moist, brown, fine sand, some fine subangular to subrounded gravel	18	MC-1B	107	6			
				20	MC-2B	105	4		44	
	5			18	MC-3B	95	4			
				31	MC-4B	109	4		48	
	10									
			Poorly Graded Gravel with Silt and Sand (GP-GM) medium dense to dense, dry, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	47	MC-5B		2			
	15			39	SPT					
			Clayey Sand with Gravel (SC) dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel							
				80	MC-7B	101	6			>4.5 ○
	20									
			Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to	50/5"	MC					
	25									

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UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-13

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			medium sand, some cobbles							
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense to very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	62	MC-9B	131	5			
	30									
				50/6"	MC					
	35									
				69	MC-11B	134	7			
	40									
				50/5"	MC-12B	134	7			
	45		Bottom of Boring at 44.9 feet.							
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-14

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/11/21 **DATE COMPLETED** 10/11/21
GROUND ELEVATION _____ **BORING DEPTH** 30 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6797778° **LONGITUDE** -121.8104306°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0	**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
		Clayey Sand (SC) medium dense, moist, brown, fine sand, some fine subangular to subrounded gravel	19	MC-1B	102	5			
			22	MC-2B	96	6			
	5	**Clayey Sand with Gravel (SC)** medium dense, moist, brown, fine sand, fine to coarse subangular to subrounded gravel	34	MC-3B	113	5			
		Poorly Graded Sand with Silt and Gravel (SP-SM) medium dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel	20	SPT					
	10	**Silty Sand with Gravel (SM)** dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel	89	MC-5B	106	3			
		Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	31	MC-6B	121	11			>4.5 ○
	15								
			14	MC					>4.5 ○
	20								
			19	MC-8B	113	15			○
	25								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

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CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-14

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
			This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.							○ HAND PENETROMETER △ TORVANE ● UNCONFINED COMPRESSION ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL 1.0 2.0 3.0 4.0
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	23	MC					○
	30		Bottom of Boring at 30.0 feet.							
	35									
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-15

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/8/21 DATE COMPLETED 10/8/21
GROUND ELEVATION _____ BORING DEPTH 35 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. LATITUDE 37.6785309° LONGITUDE -121.8105704°
DRILLING METHOD Mobile B-61, 8 inch Hollow-Stem Auger GROUND WATER LEVELS:
LOGGED BY JDS ▽ AT TIME OF DRILLING Not Encountered
NOTES _____ ▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, moist, brown, fine sand, some fine subangular to subrounded gravel	24	MC-1B	91	6			
				40	MC-2B	105	5			>4.5 ○
	5		**Clayey Sand with Gravel (SC)** medium dense, moist, brown, fine sand, fine to coarse subangular to subrounded gravel	54	MC-3B	122	4			>4.5 ○
			Silty Sand with Gravel (SM) medium dense, moist, brown, fine sand, fine subangular to subrounded gravel	24	MC-4B	109	2			
	10		**Poorly Graded Gravel with Silt and Sand (GP-GM)** dense to very dense, dry, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	34	SPT					
				60	MC					
	15									
				50/5"	MC-7B	114	3			
	20									
				58	MC					
	25									

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CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-15

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	30		**Poorly Graded Gravel with Silt and Sand (GP-GM)** dense to very dense, moist, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	58	MC-9B	123	6			
	35		Bottom of Boring at 35.0 feet.	50/6"	MC					
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-16

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/8/21 **DATE COMPLETED** 10/8/21
GROUND ELEVATION _____ **BORING DEPTH** 29 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6792323° **LONGITUDE** -121.8088096°
DRILLING METHOD Mobile B-61, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		**Sandy Lean Clay (CL) [Fill]** hard, dry, brown, fine sand, trace organics, low plasticity							
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	28	MC-1B	91	5			>4.5 ○
				40	MC-2B	103	4			>4.5 ○
	5		**Lean Clay with Sand (CL)** hard, moist, brown, fine to medium sand, low plasticity	46	MC-3B	108	8		71	>4.5 ○
				54	MC-4B	110	7			>4.5 ○
	10		**Sandy Lean Clay (CL)** hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity							
				42	MC-5B	119	7			>4.5 ○
	15									
			Silty Sand with Gravel (SM) medium dense, moist, brown, fine to medium sand, fine subangular to subrounded gravel	50	MC					
	20									
			Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/6"	MC-7	113	4			
	25									

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BORING NUMBER EB-16

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
			Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/6"	MC					
			Bottom of Boring at 29.0 feet.							
	30									
	35									
	40									
	45									
	50									
	55									

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-17

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/8/21 **DATE COMPLETED** 10/8/21
GROUND ELEVATION _____ **BORING DEPTH** 38.9 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** 37.6786997° **LONGITUDE** -121.8078648°
DRILLING METHOD Mobile B-61, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY JDS ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0	**Clayey Sand (SC) [Fill]** loose, dry, brown, fine sand, trace organics							
		Clayey Sand (SC) dense, moist, brown, fine sand, some fine subangular to subrounded gravel	72	MC-1B	107	5			
		Clayey Sand (SC) medium dense, dry, brown, fine sand, some fine subangular to subrounded gravel	48	MC-2B	98	5			
	5	**Sandy Lean Clay (CL)** hard, moist, brown, fine to medium sand, some subrounded gravel, low plasticity	61	MC-3B	113	6			>4.5 ○
		Clayey Sand with Gravel (SC) very dense, moist, brown, fine sand, fine to coarse subangular to subrounded gravel	50/6"	MC-4B	121	6			
	10								
		Poorly Graded Gravel with Silt and Sand (GP-GM) very dense, moist, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/6"	MC					
	15								
			50/3"	MC-6B	113	13			
	20								
		Poorly Graded Sand with Silt and Gravel (SP-SM) dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel, trace cobbles	69	MC					
	25								

Continued Next Page

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-17

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	30		**Poorly Graded Sand with Silt and Gravel (SP-SM)** dense, moist, brown, fine to medium sand, fine to coarse subangular to subrounded gravel, trace cobbles	84	MC-8B	129	7			
	35		**Poorly Graded Gravel with Silt and Sand (GP-GM)** very dense, moist, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	50/6"	MC-9B	125	16			
				50/5"	MC					
	40		Bottom of Boring at 38.9 feet.							
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-18

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park
PROJECT NUMBER 681-7-1
PROJECT LOCATION Livermore, CA

DATE STARTED 10/7/21 **DATE COMPLETED** 10/7/21
GROUND ELEVATION _____ **BORING DEPTH** 45 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc.
LATITUDE 37.6796096° **LONGITUDE** -121.8074561°
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY JDS
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0		**Silty Sand (SM) [Fill]** loose, dry, brown, fine sand, trace organics							
			Clayey Sand (SC) medium dense, moist, brown, fine to medium sand, some fine subangular to subrounded gravel	24	MC-1B	103	4			
			Silty Sand with Gravel (SM) loose, dry, brown, fine to medium sand, fine to coarse subrounded to subangular gravel	12	MC-2B		4			
	5		**Silty Sand (SM)** medium dense, moist, brown, fine to medium sand, some fine to coarse subrounded to subangular gravel	20	MC-3B	95	4			
				16	MC-4B	99	5			
	10									
	15		**Clayey Sand with Gravel (SC)** medium dense, moist, brown, fine sand, fine to coarse subangular to subrounded gravel	50	MC-5B	123	8			
	20		**Poorly Graded Gravel with Silt and Sand (GP-GM)** medium dense to dense, dry, gray and brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	37	MC					
				32	SPT-7		2			
			Sandy Lean Clay (CL) hard, moist, brown, fine to sand, low plasticity	26	MC-8B	115	15			>4.5 ○
	25									

Continued Next Page

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

BORING NUMBER EB-18

CORNERSTONE EARTH GROUP

PROJECT NAME The Oaks Business Park

PROJECT NUMBER 681-7-1

PROJECT LOCATION Livermore, CA

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
			Sandy Lean Clay (CL) hard, moist, brown, fine to sand, low plasticity							
	30		becomes very stiff	16	MC					
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	65	MC-10B	118	4			
	35									
	40		**Lean Clay with Sand (CL)** very stiff, moist, brown, fine to sand, low plasticity	29	MC					
			Poorly Graded Gravel with Silt and Sand (GP-GM) dense, moist, brown, fine to coarse subangular to subrounded gravel, fine to medium sand, some cobbles	79	MC-12B	125	7			
	45		Bottom of Boring at 45.0 feet.							
	50									
	55									

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

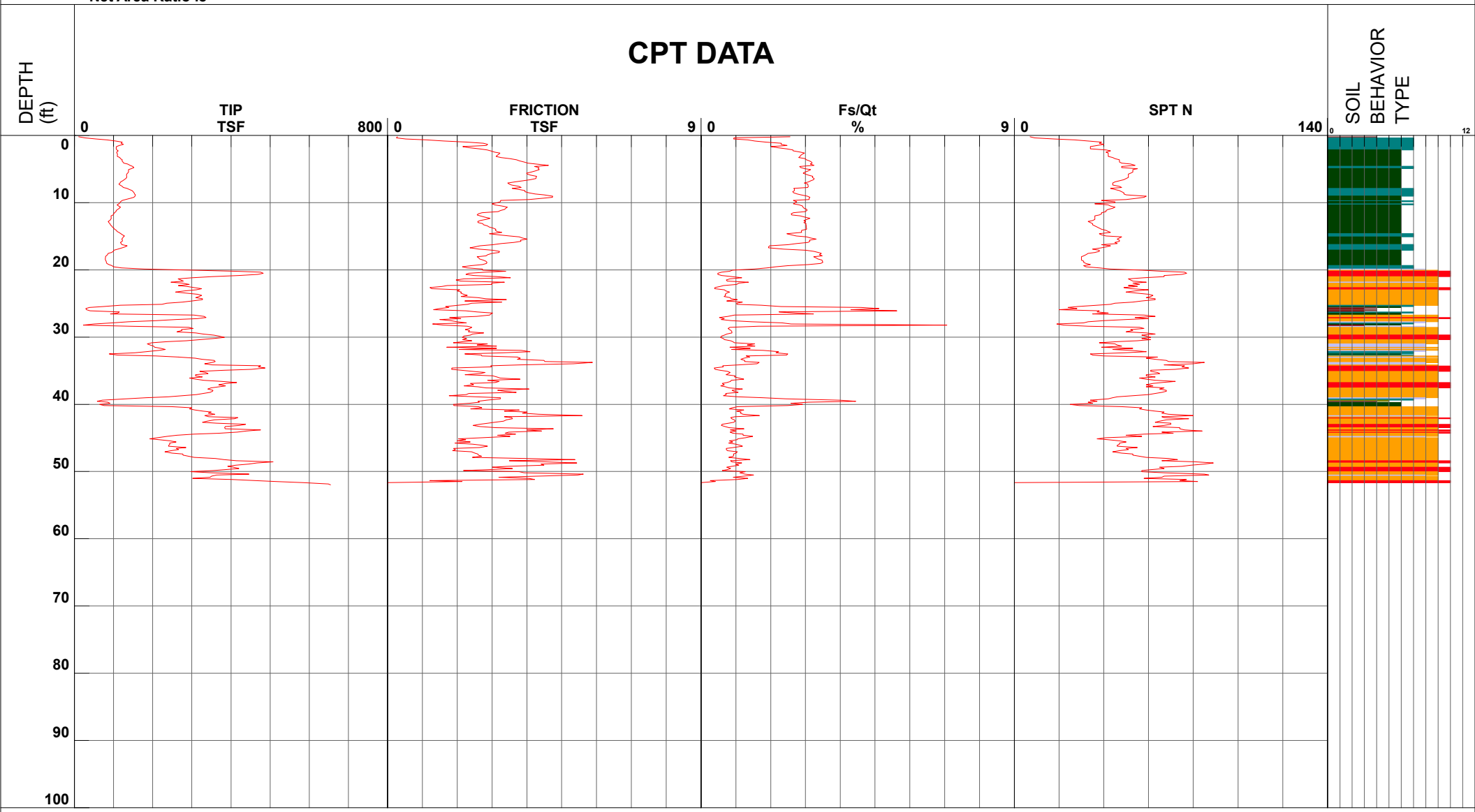
CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 11/5/21 07:52 - P:\DRAFTING\GINT FILES\681-7-1 THE OAKS.GPJ

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(953).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-01A	Date and Time	9/16/2021 10:04:45 AM	Maximum Depth	52.00 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

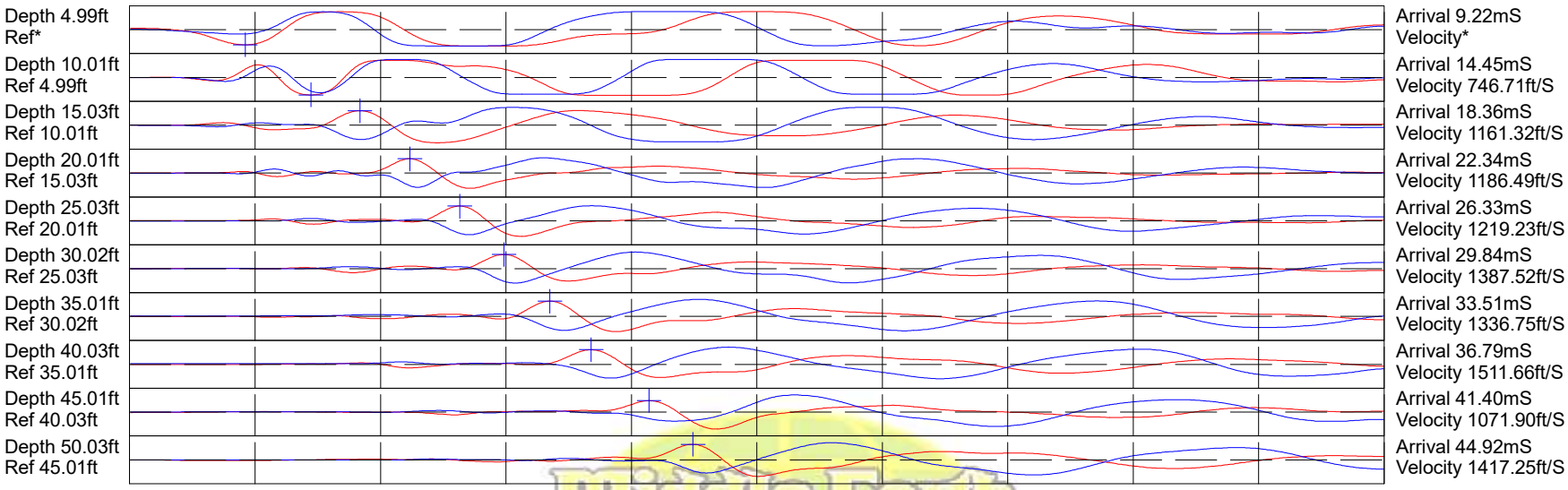
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

CPT-01A

Cornerstone Earth Group

Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

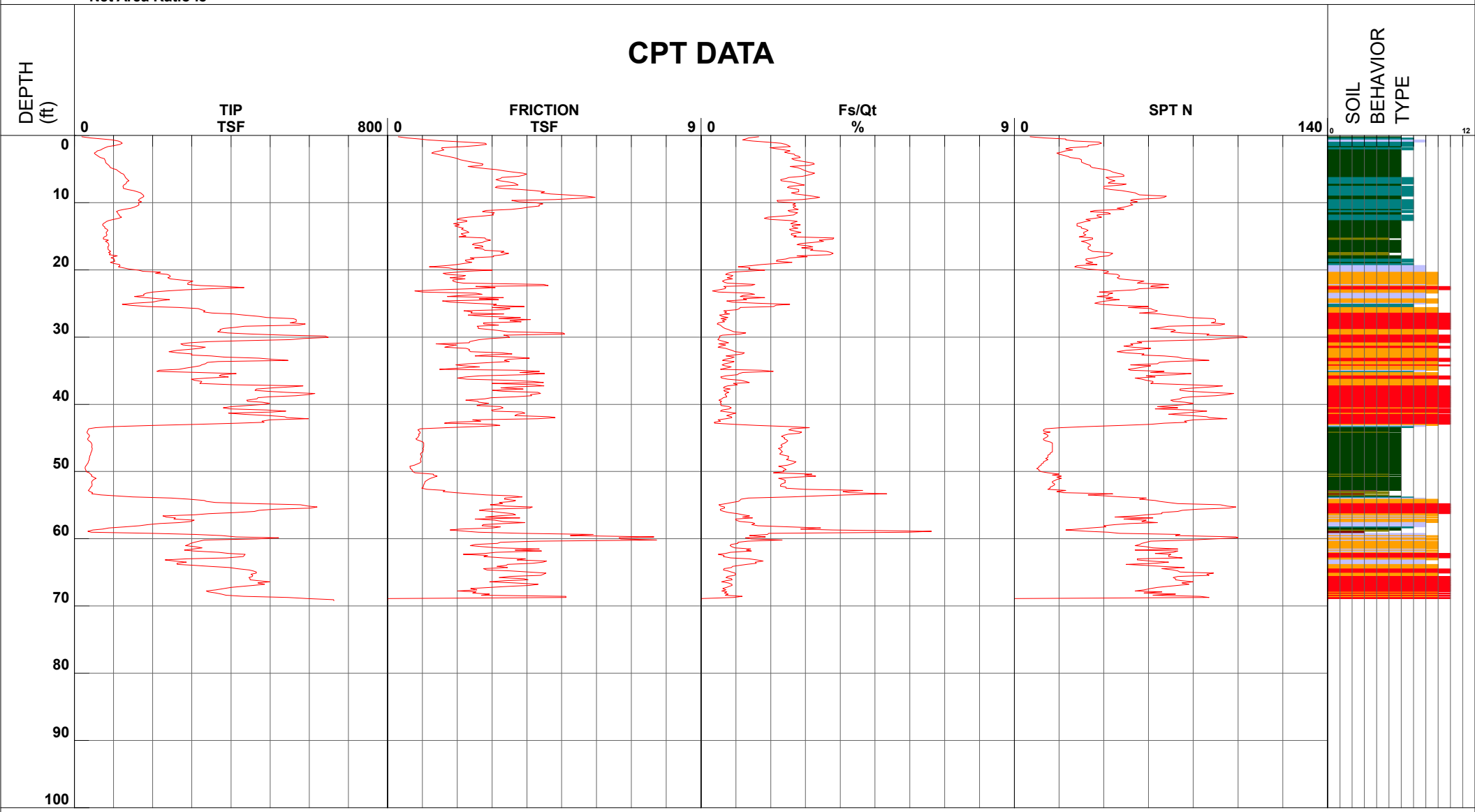
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(951).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-02	Date and Time	9/16/2021 7:51:06 AM	Maximum Depth	69.22 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

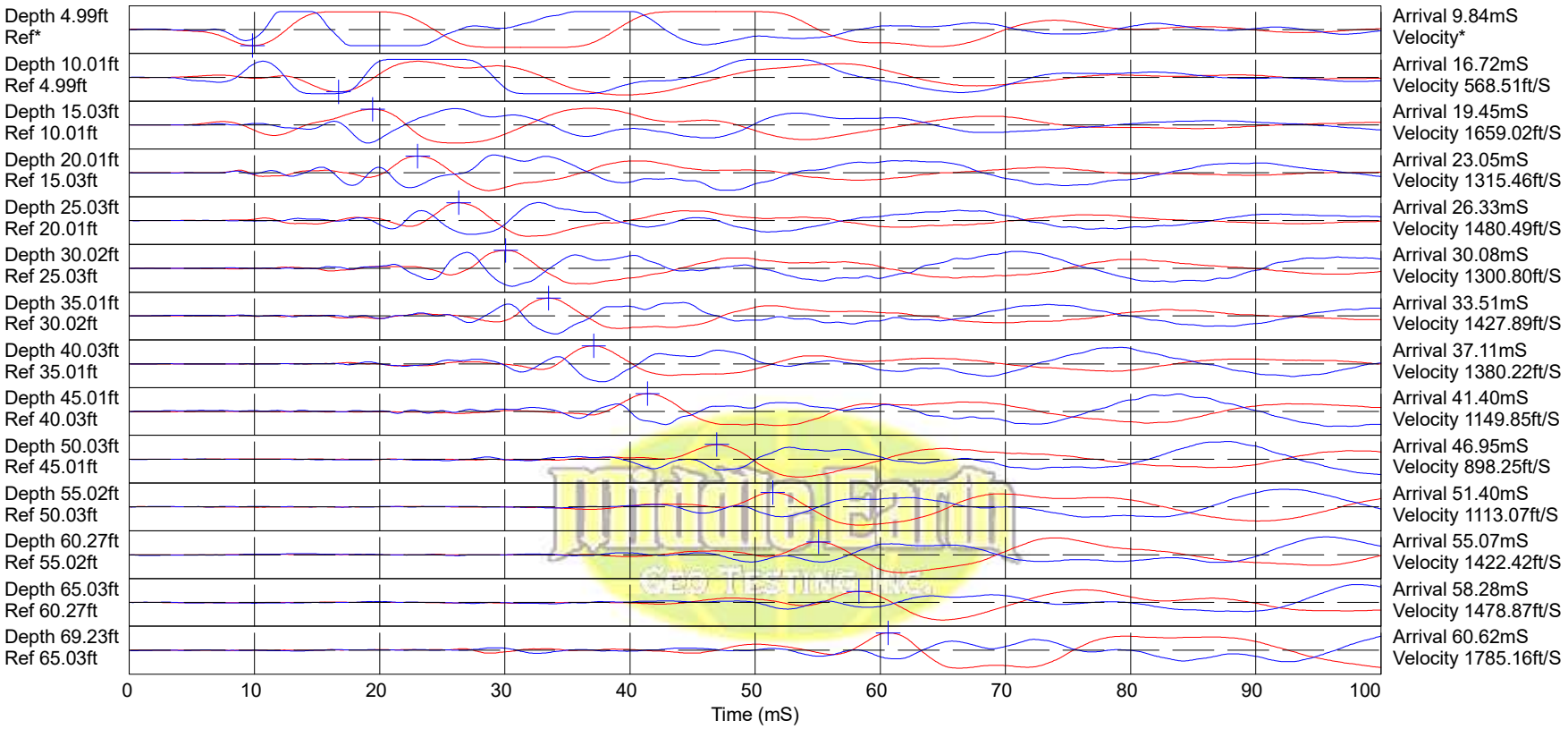
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

CPT-02

Cornerstone Earth Group

Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

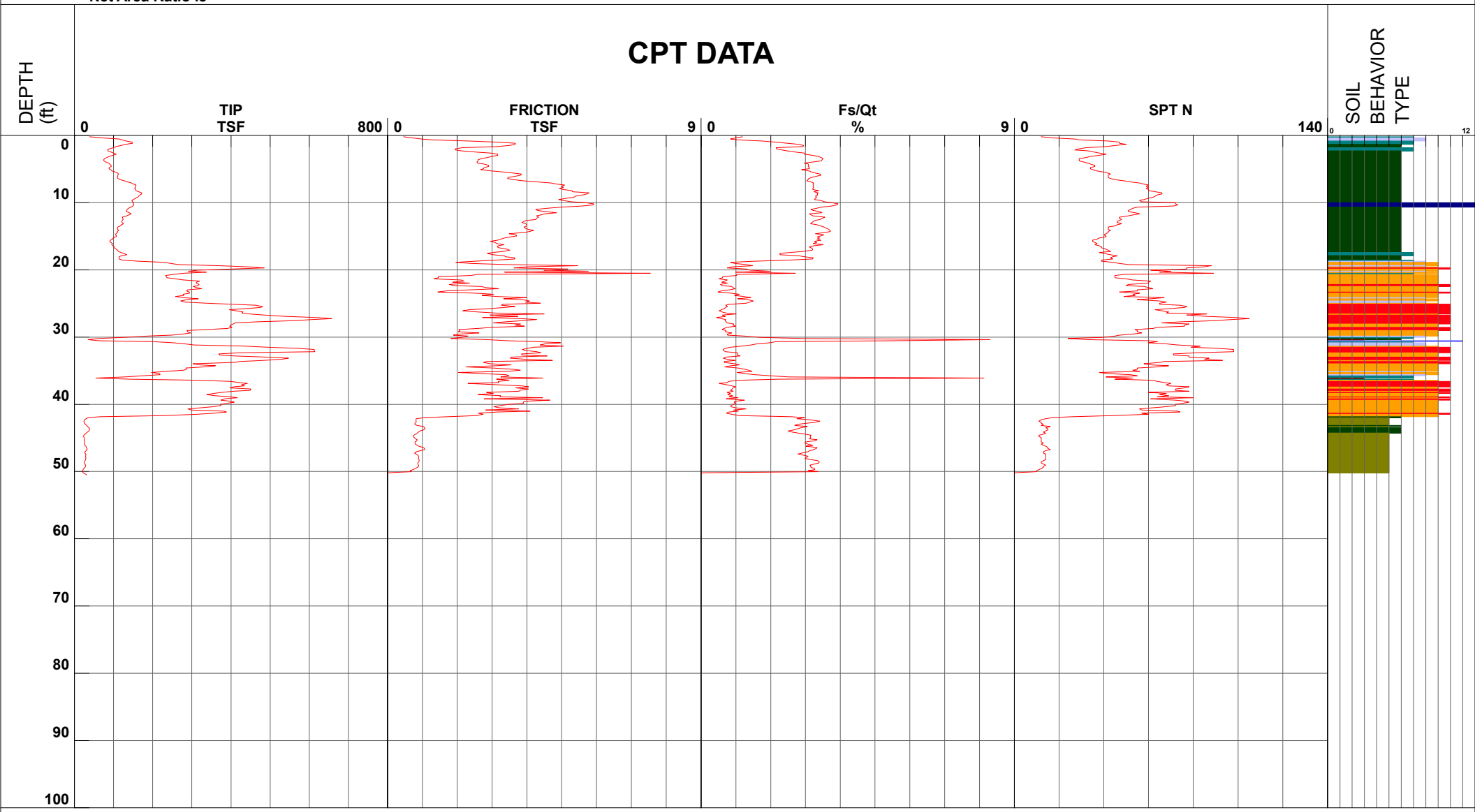
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(954).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-03	Date and Time	9/16/2021 11:01:54 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

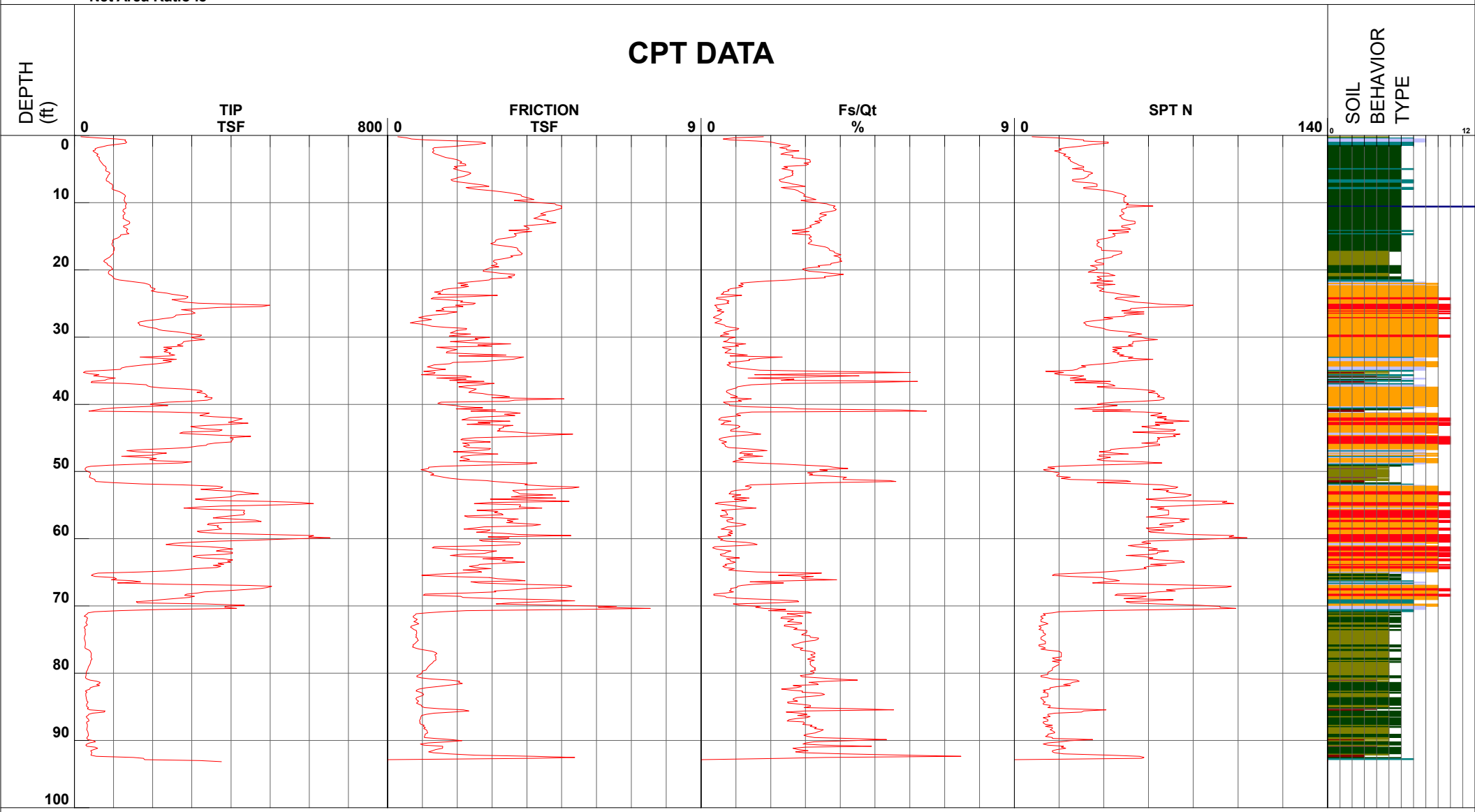
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(955).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-04	Date and Time	9/16/2021 11:42:06 AM	Maximum Depth	93.17 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

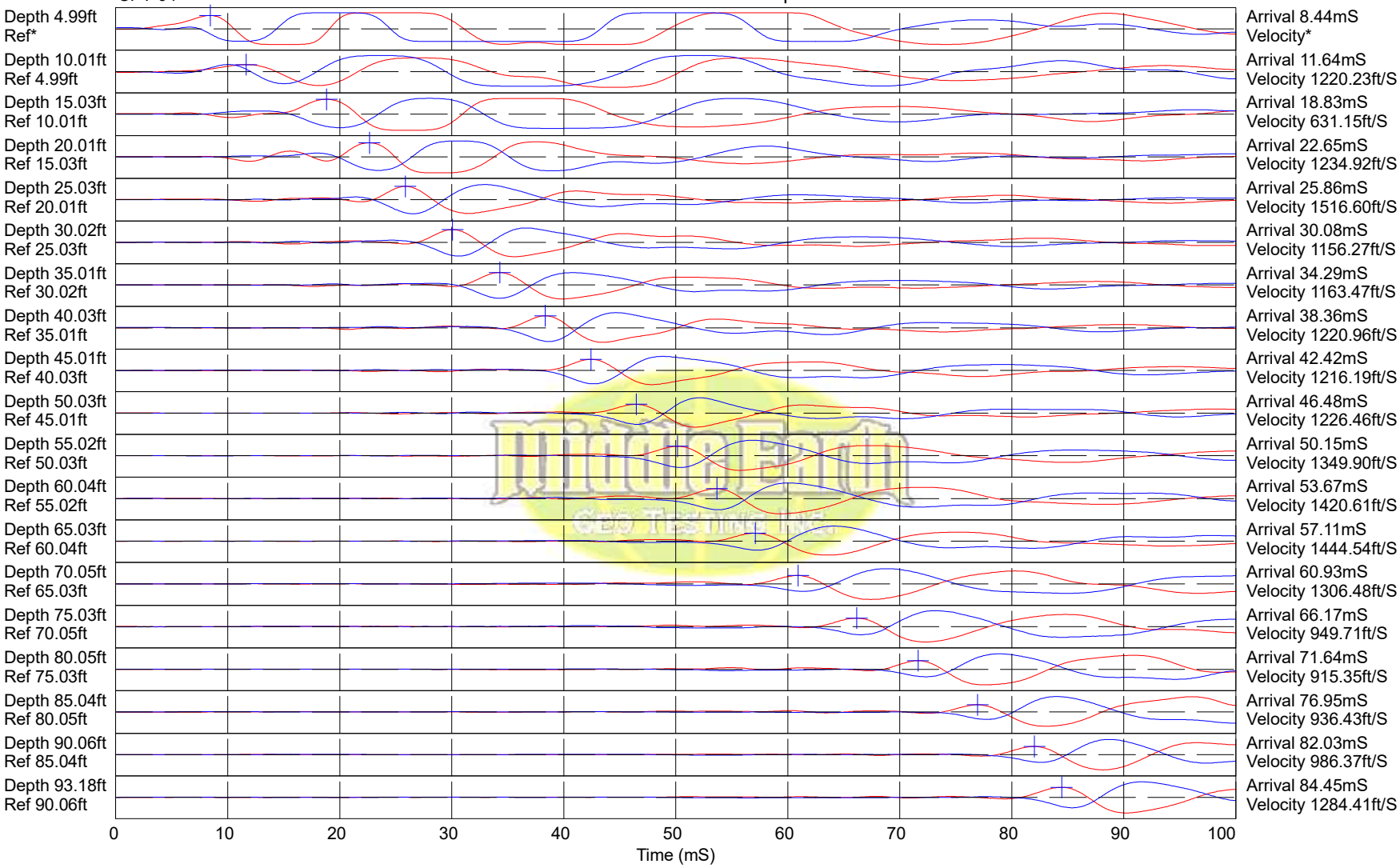
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

CPT-04

Cornerstone Earth Group

Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

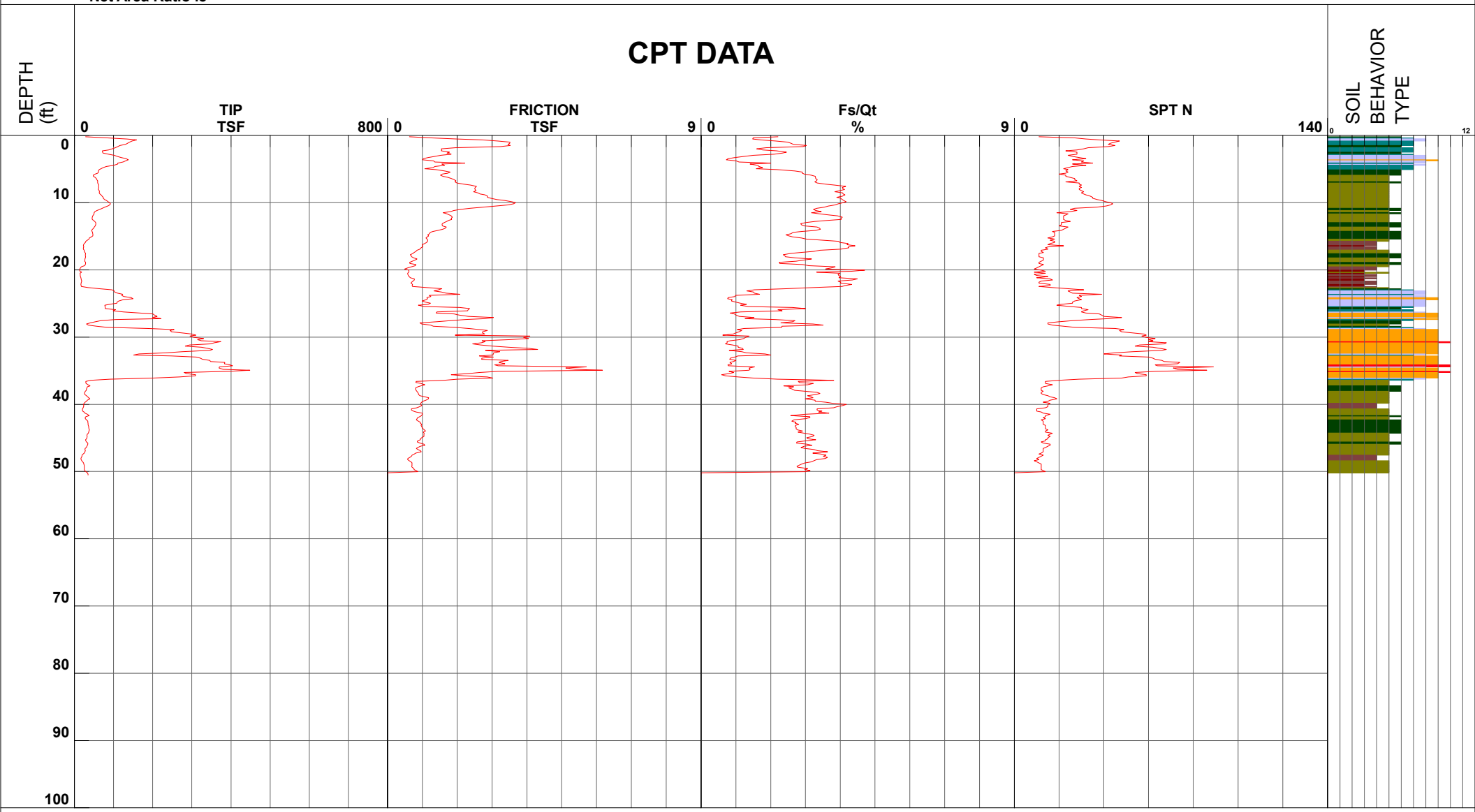
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(956).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-05	Date and Time	9/16/2021 1:42:48 PM	Maximum Depth	50.52 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

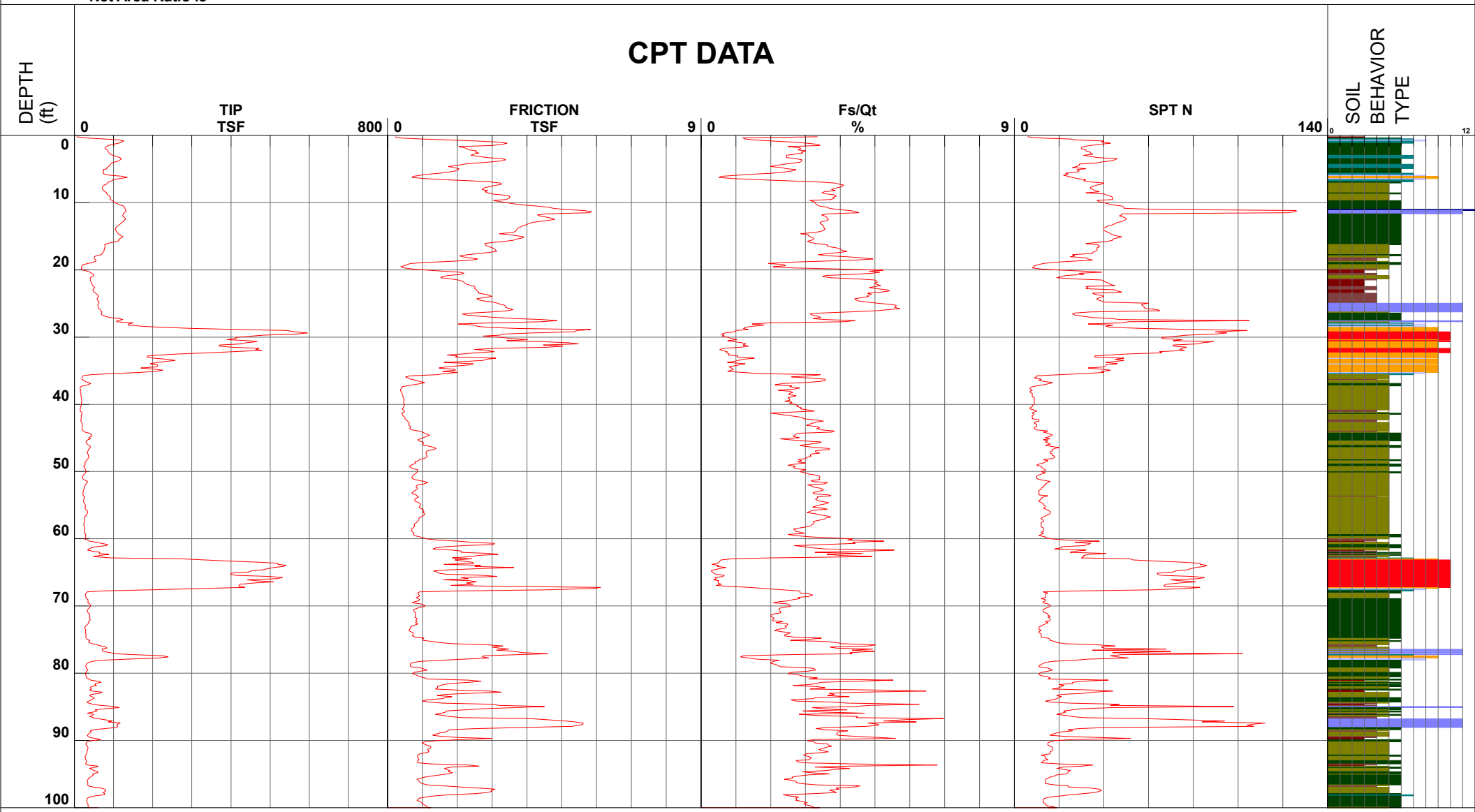
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(959).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-06	Date and Time	9/17/2021 8:57:42 AM	Maximum Depth	100.88 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



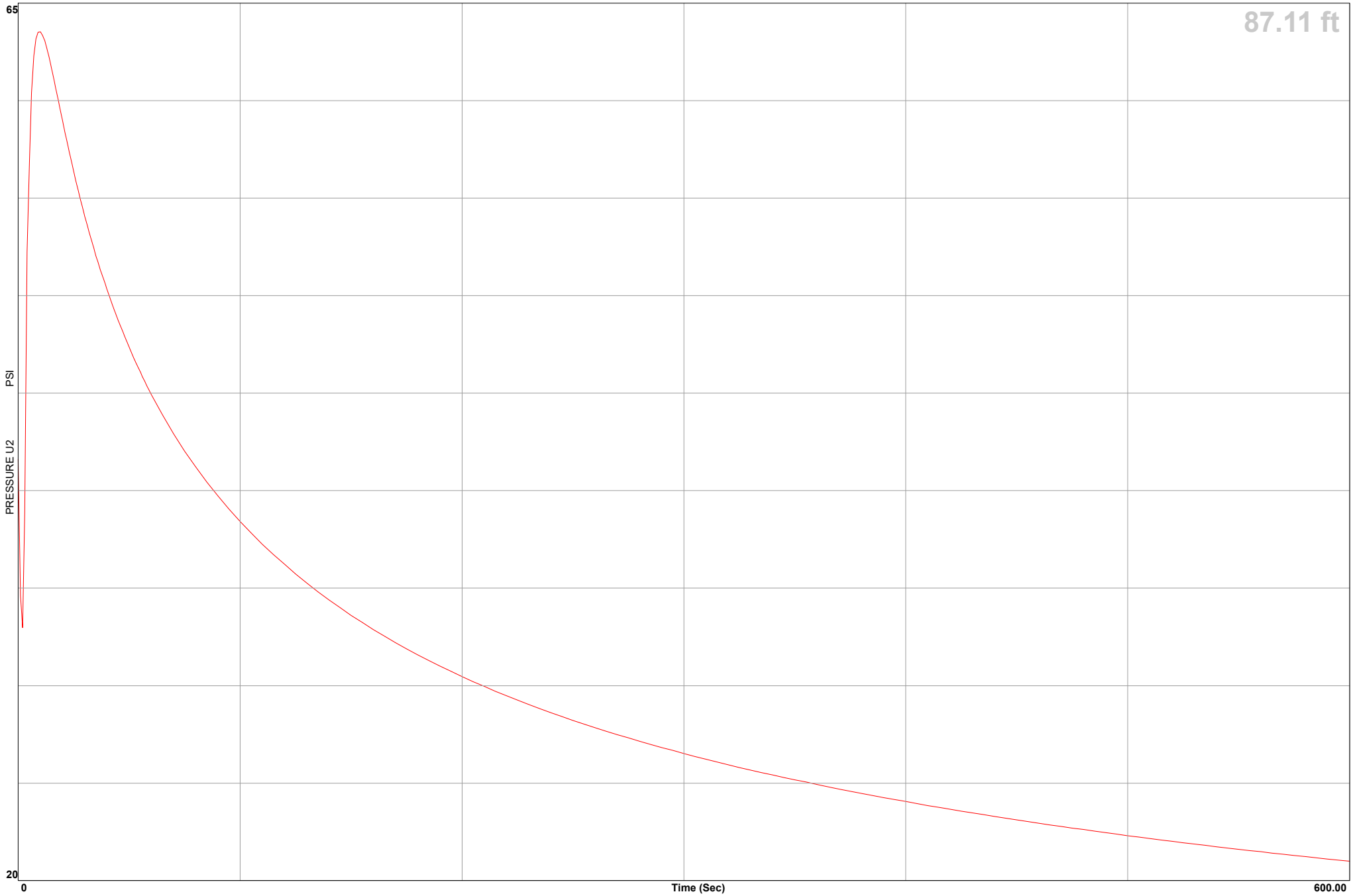
1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

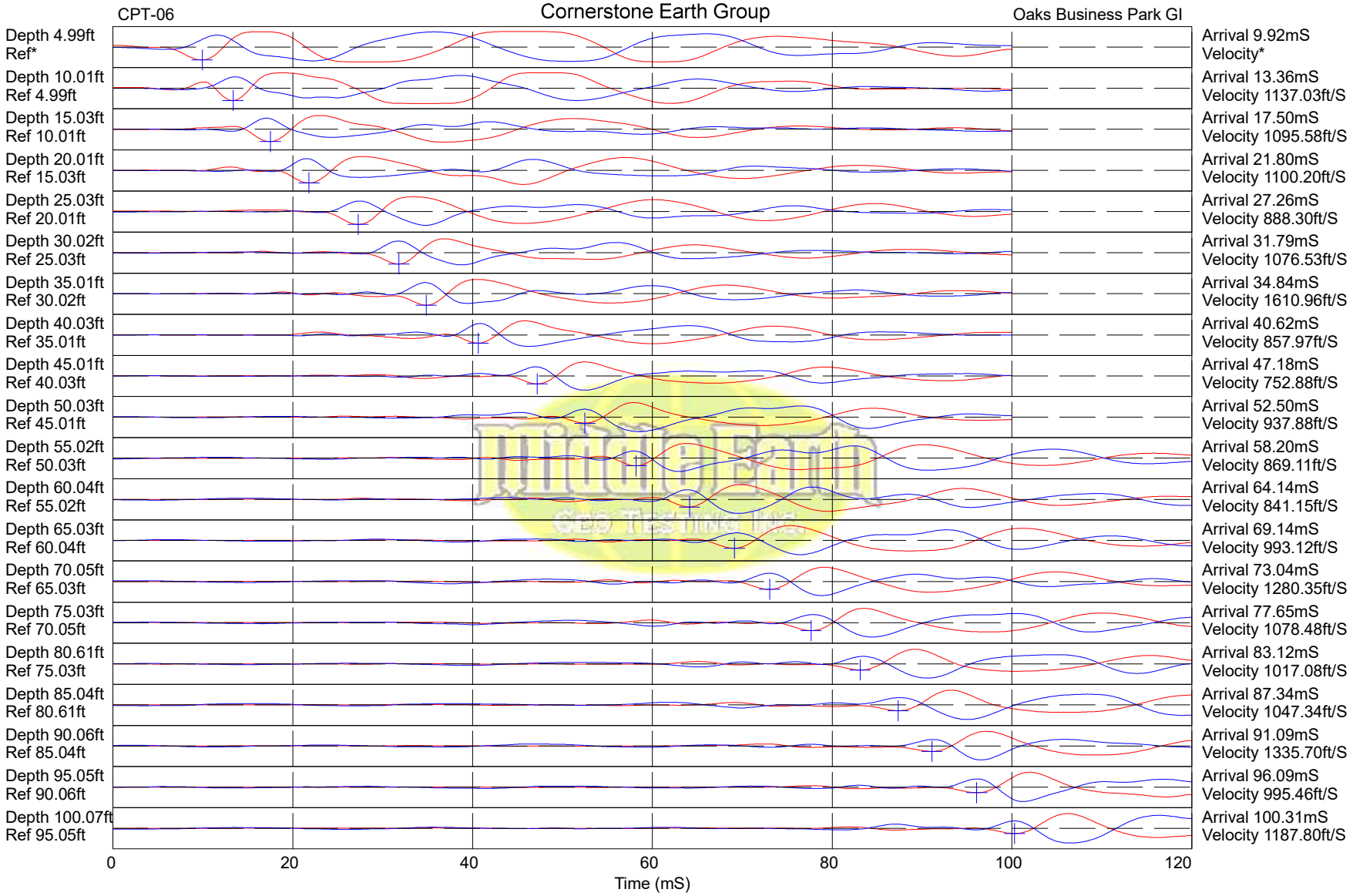
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Location	Oaks Business Park GI	Operator	AJ-JM	GPS
Job Number	681-7-1	Cone Number	DDG1596	
Hole Number	CPT-06	Date and Time	9/17/2021 8:57:42 AM	
Equilized Pressure	20.8	EST GW Depth During Test	38.8	





Hammer to Rod String Distance (ft): 5.83
* = Not Determined

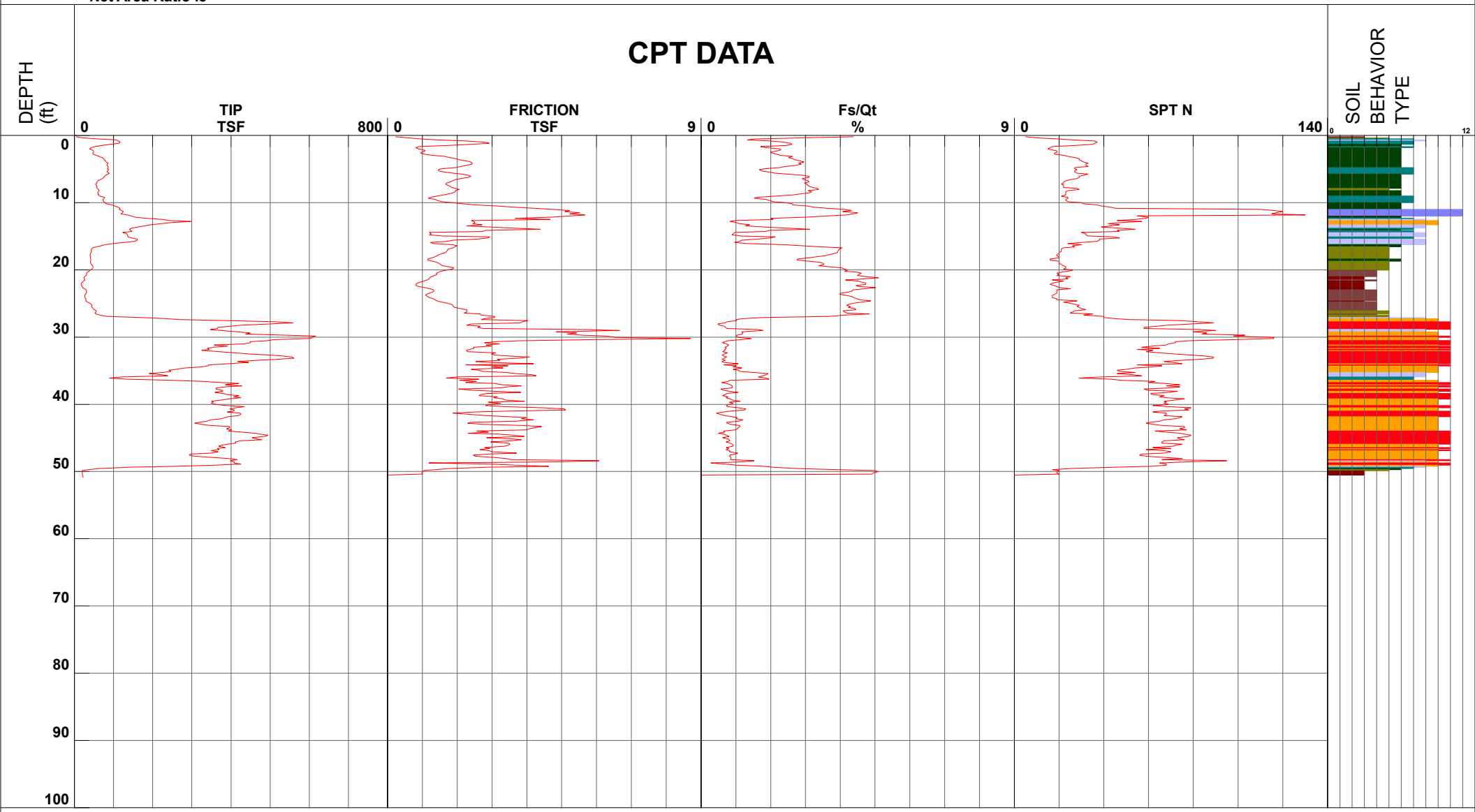
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(957).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-07	Date and Time	9/16/2021 2:22:09 PM	Maximum Depth	50.85 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

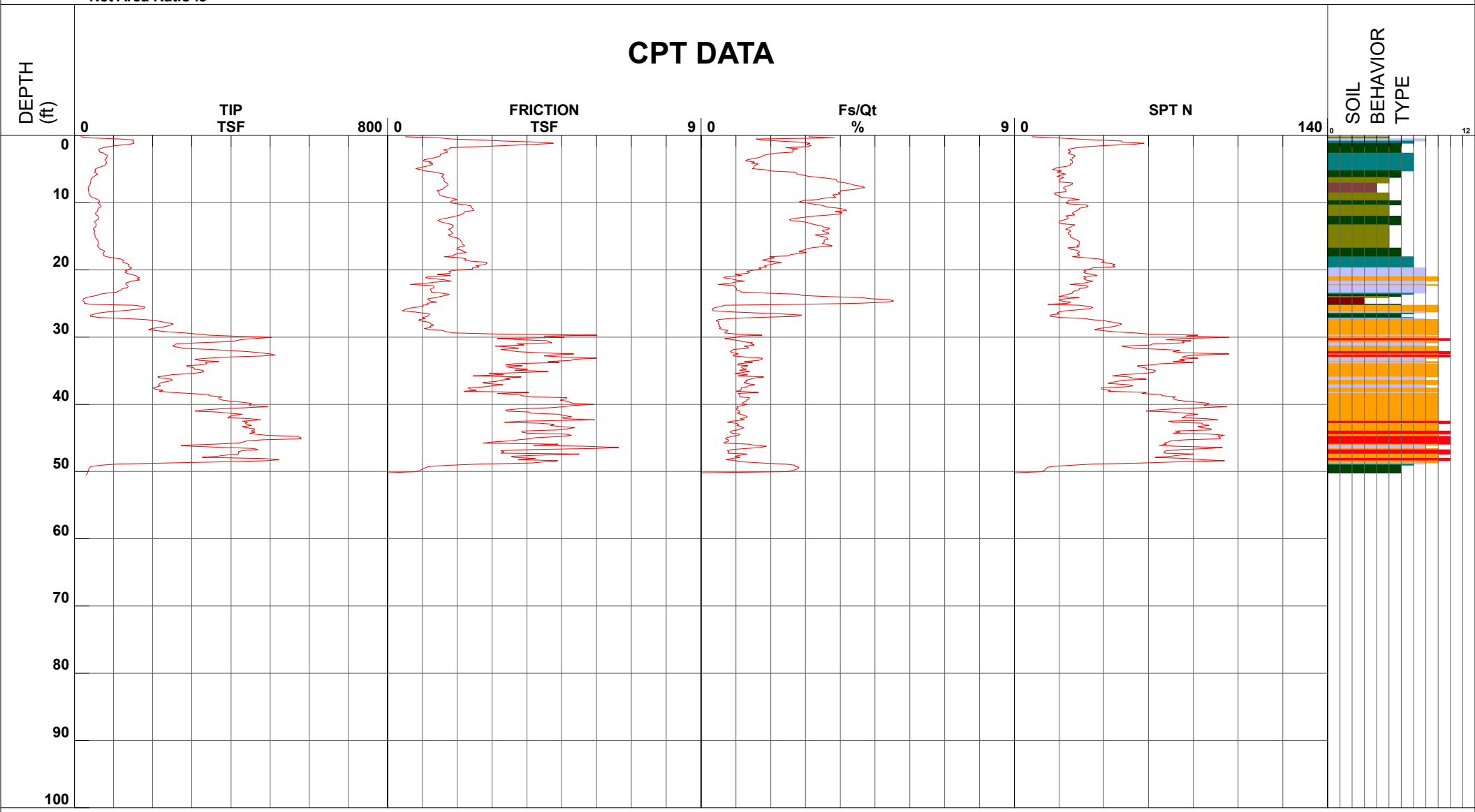
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(960).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-08	Date and Time	9/17/2021 10:45:52 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

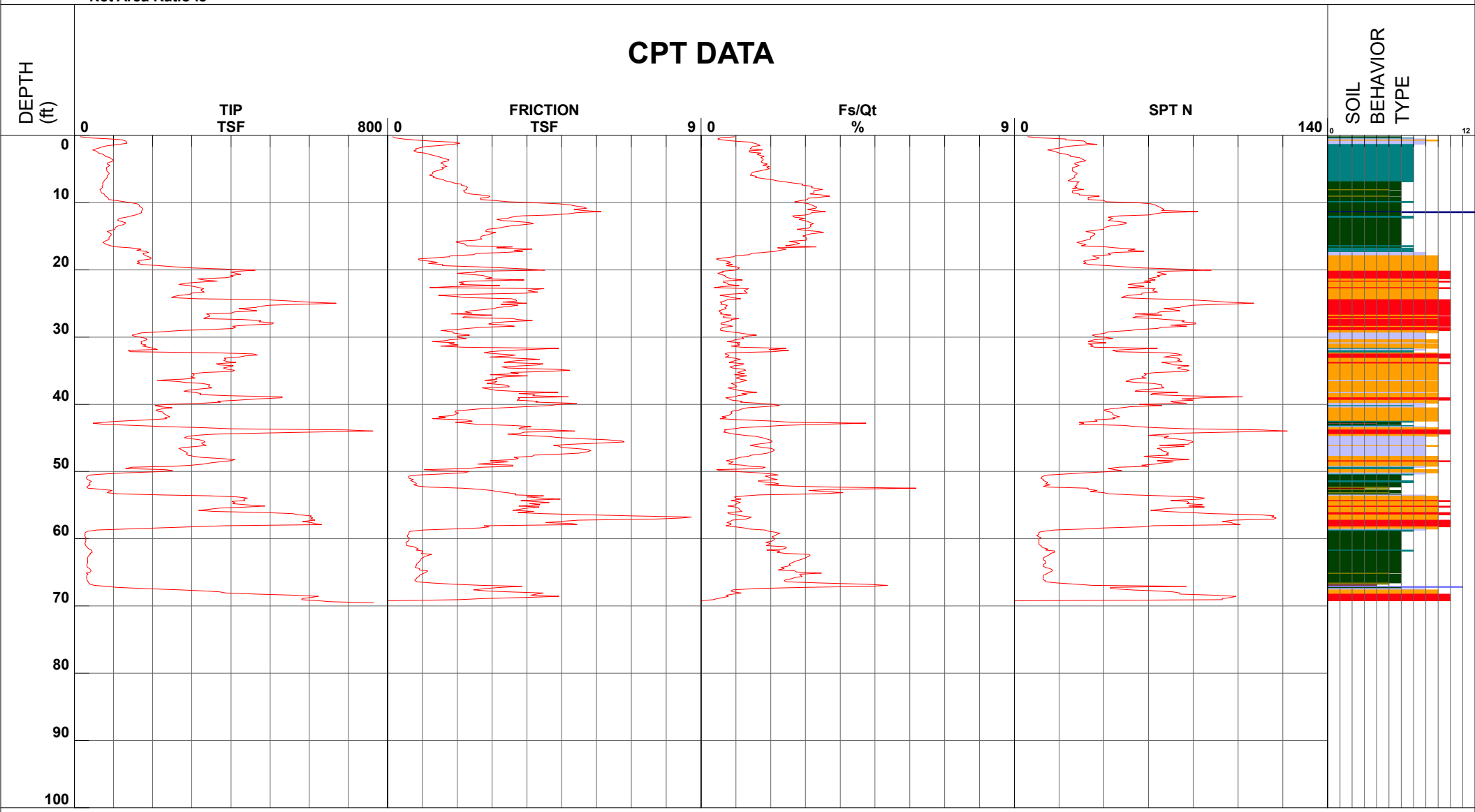
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(958).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-09	Date and Time	9/17/2021 7:26:30 AM	Maximum Depth	69.55 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



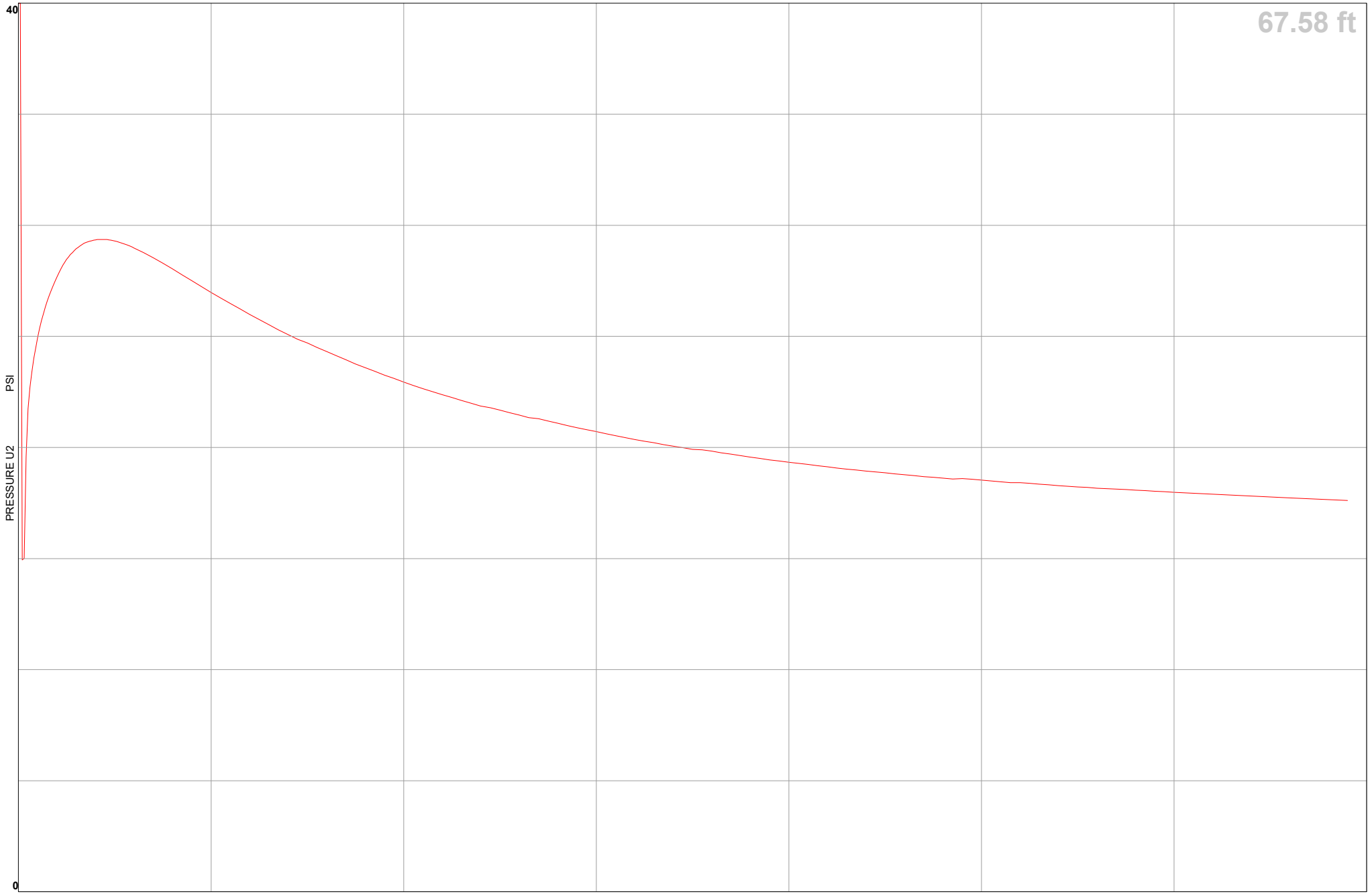
1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

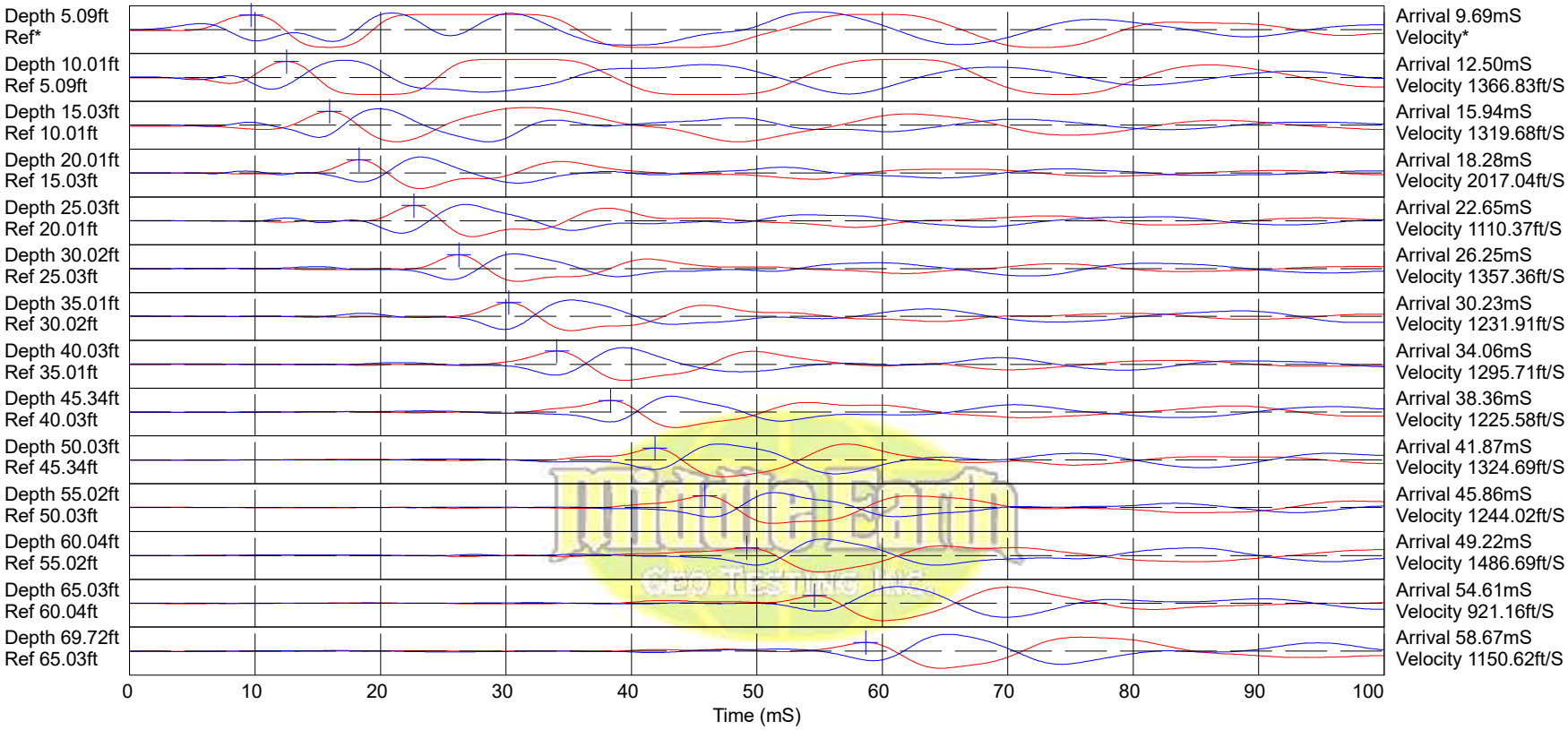
Location	Oaks Business Park GI	Operator	AJ-JM	
Job Number	681-7-1	Cone Number	DDG1596	GPS
Hole Number	CPT-09	Date and Time	9/17/2021 7:26:30 AM	
Equilized Pressure	17.6	EST GW Depth During Test	26.9	



CPT-09

Cornerstone Earth Group

Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

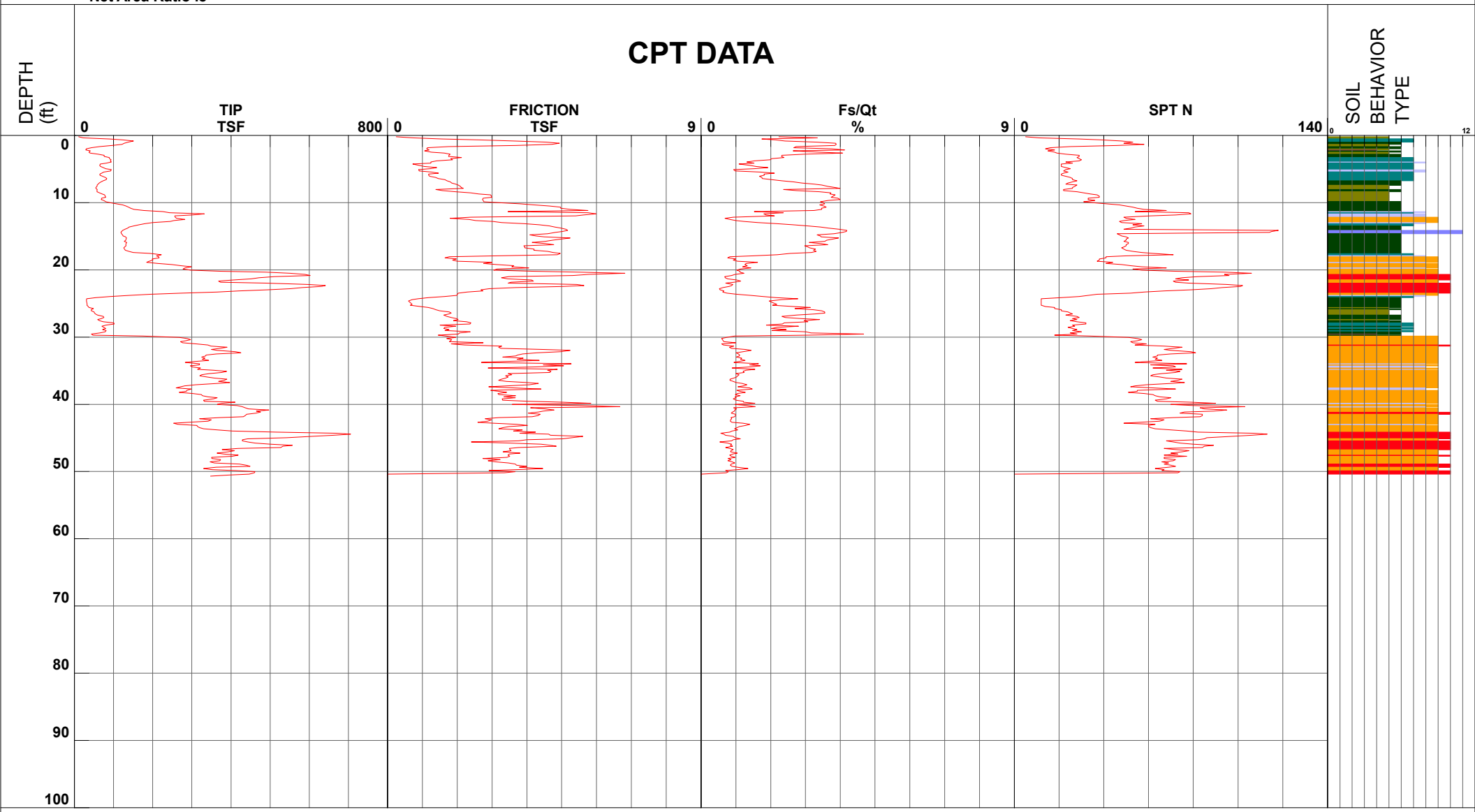
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-JM	Filename	SDF(961).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-10	Date and Time	9/17/2021 11:19:58 AM	Maximum Depth	50.69 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

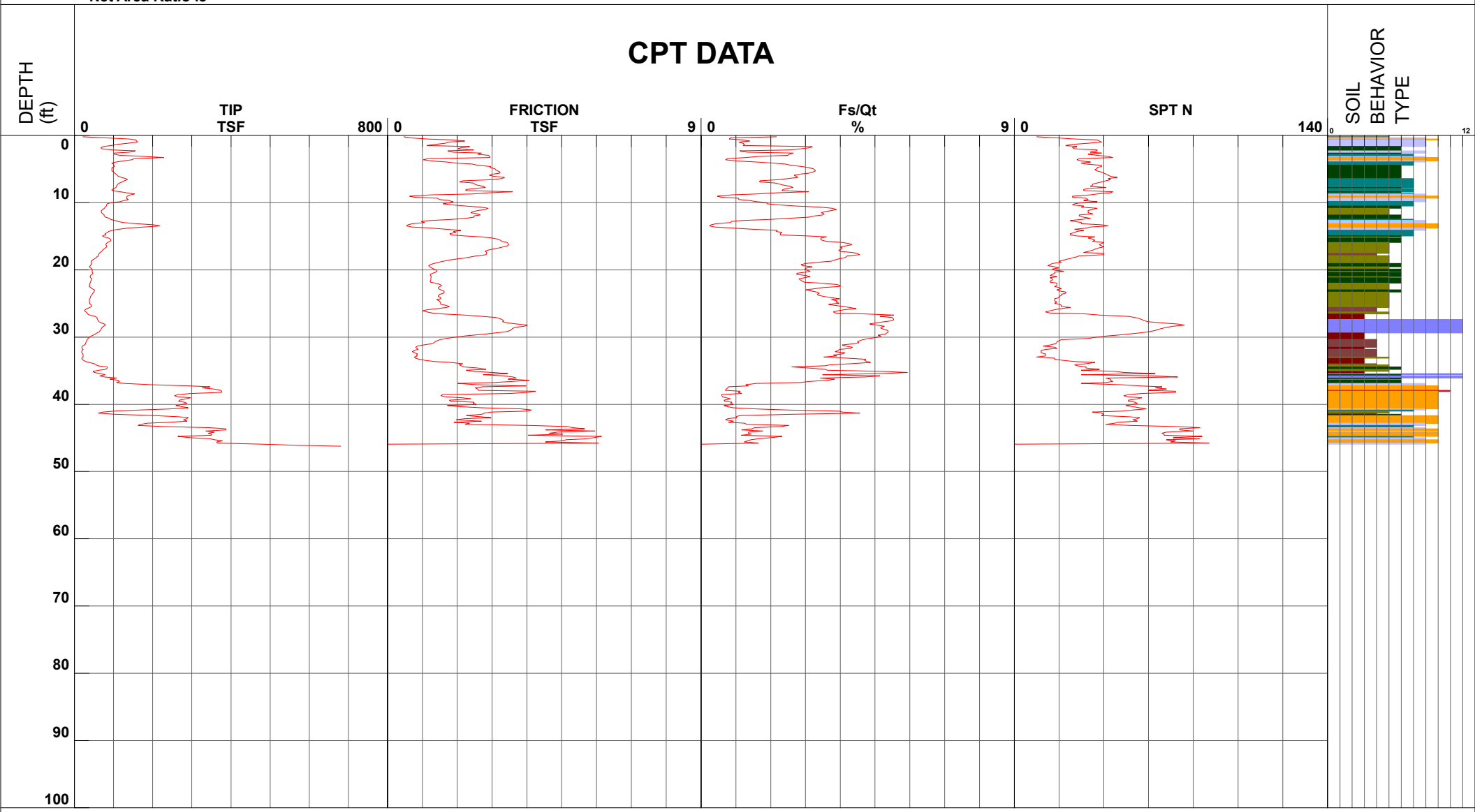
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-OO	Filename	SDF(992).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-11	Date and Time	9/25/2021 7:26:04 AM	Maximum Depth	46.26 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

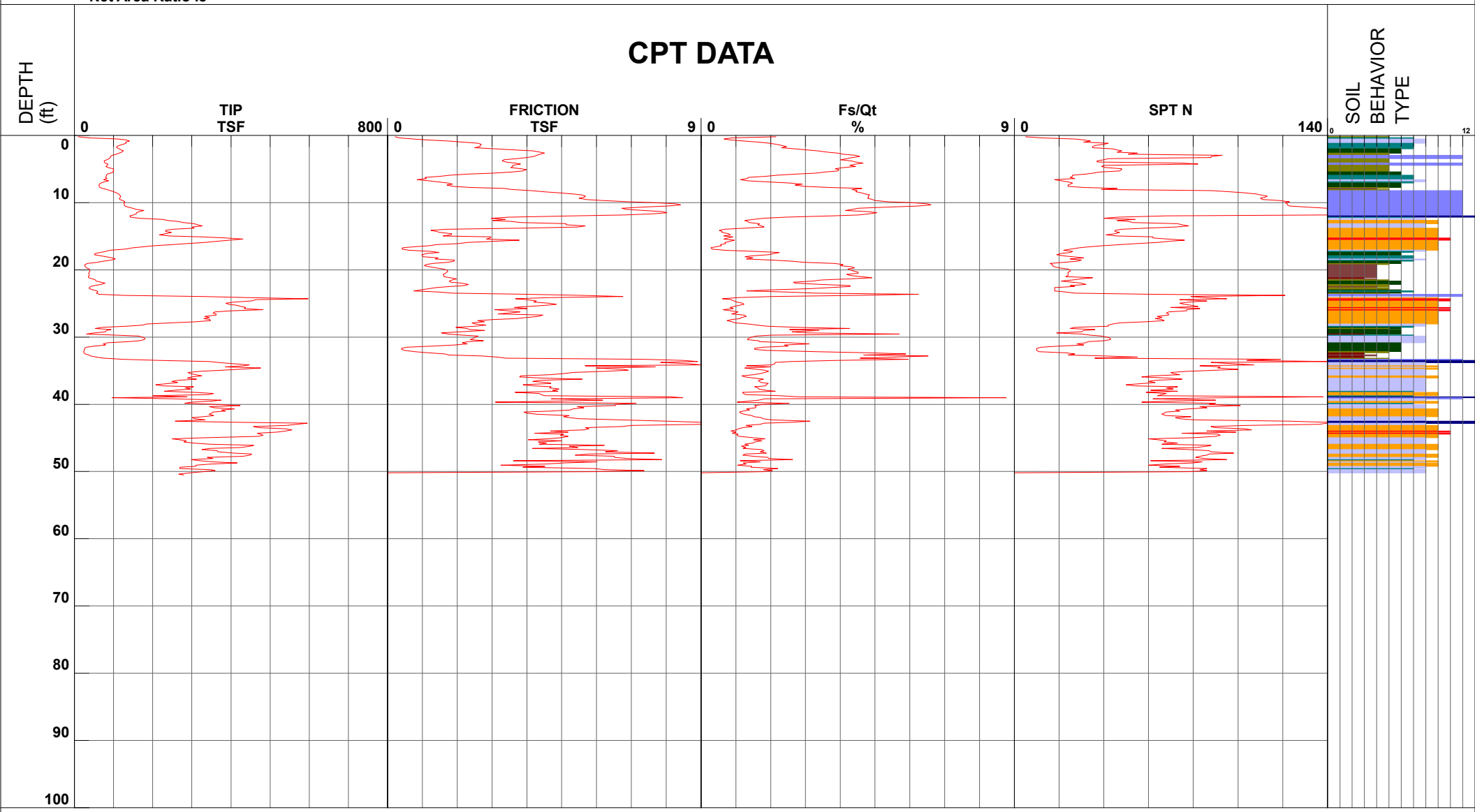
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	JM-IY	Filename	SDF(979).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-12	Date and Time	9/22/2021 1:01:20 PM	Maximum Depth	50.52 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

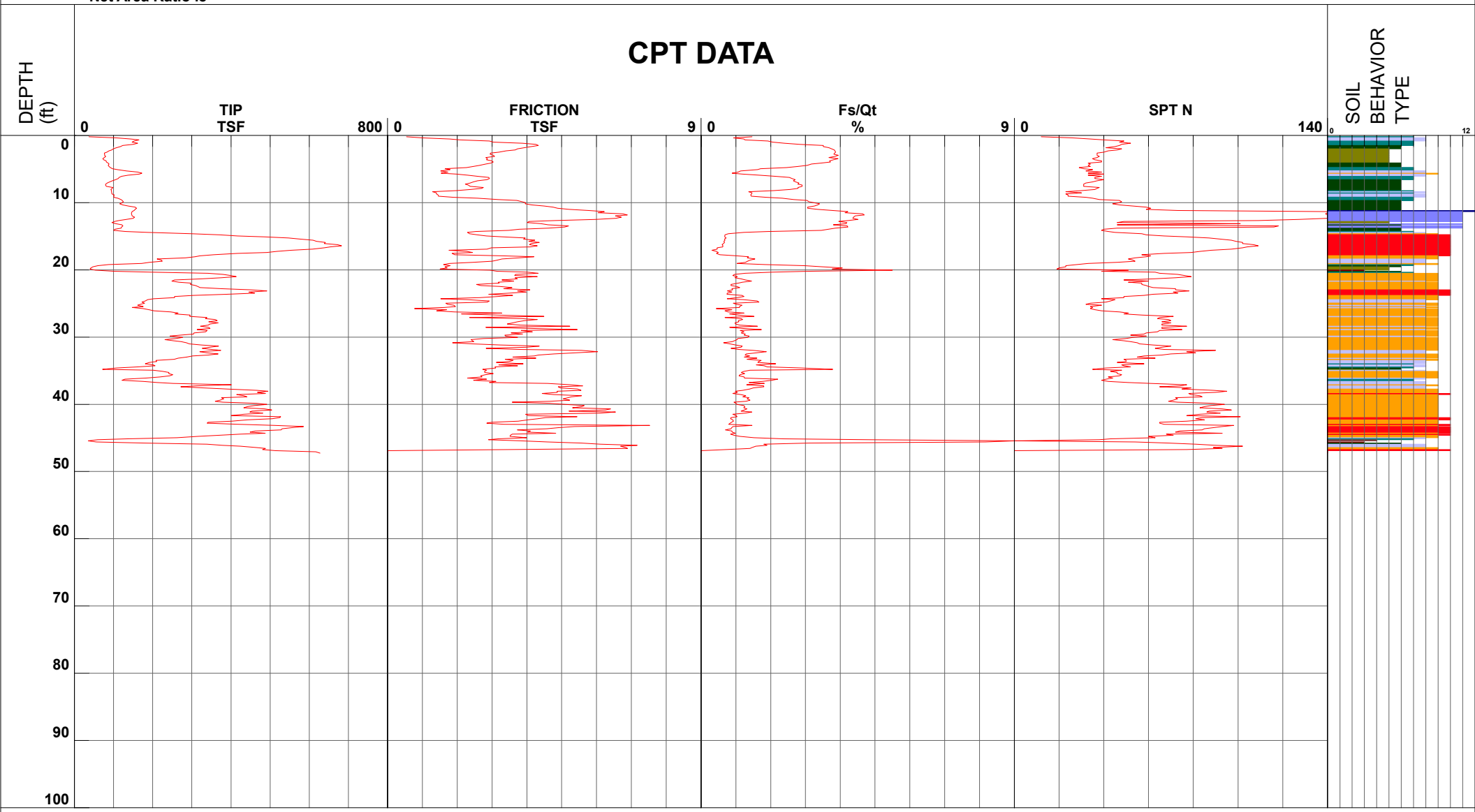
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-OO	Filename	SDF(996).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-13	Date and Time	9/25/2021 10:17:57 AM	Maximum Depth	47.24 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

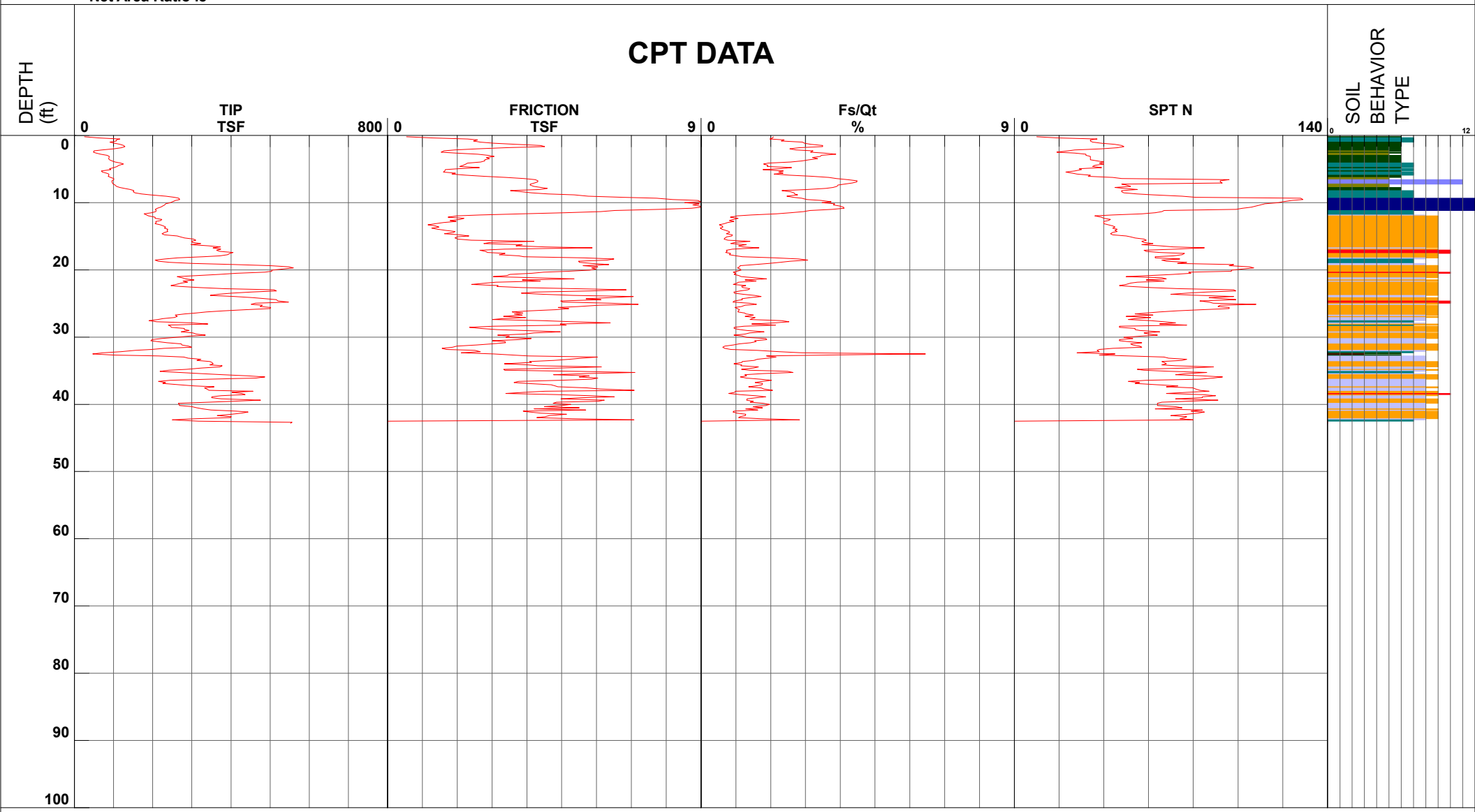
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	JM-IY	Filename	SDF(978).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-14	Date and Time	9/22/2021 12:11:28 PM	Maximum Depth	42.81 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

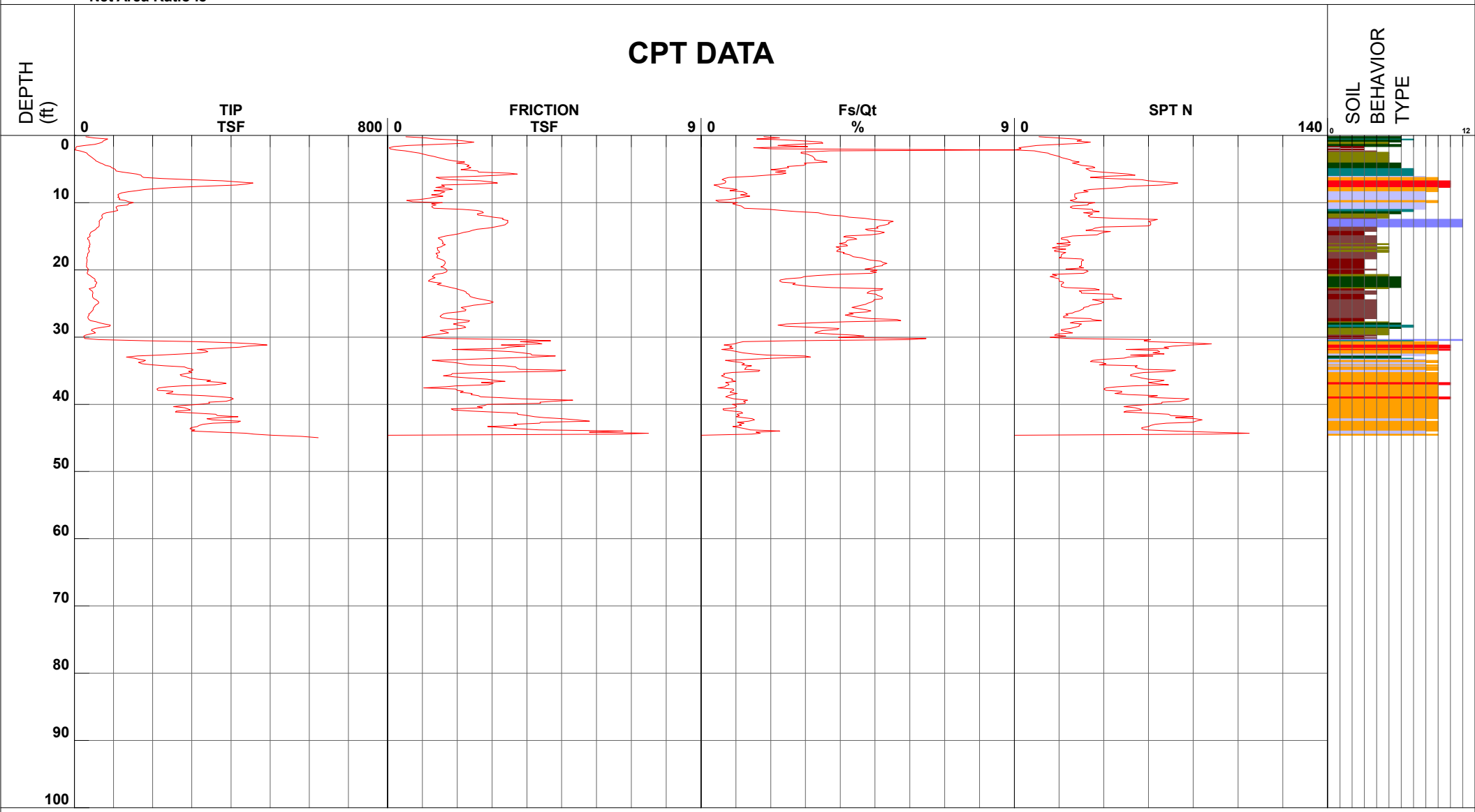
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-OO	Filename	SDF(993).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-15	Date and Time	9/25/2021 8:02:43 AM	Maximum Depth	44.95 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

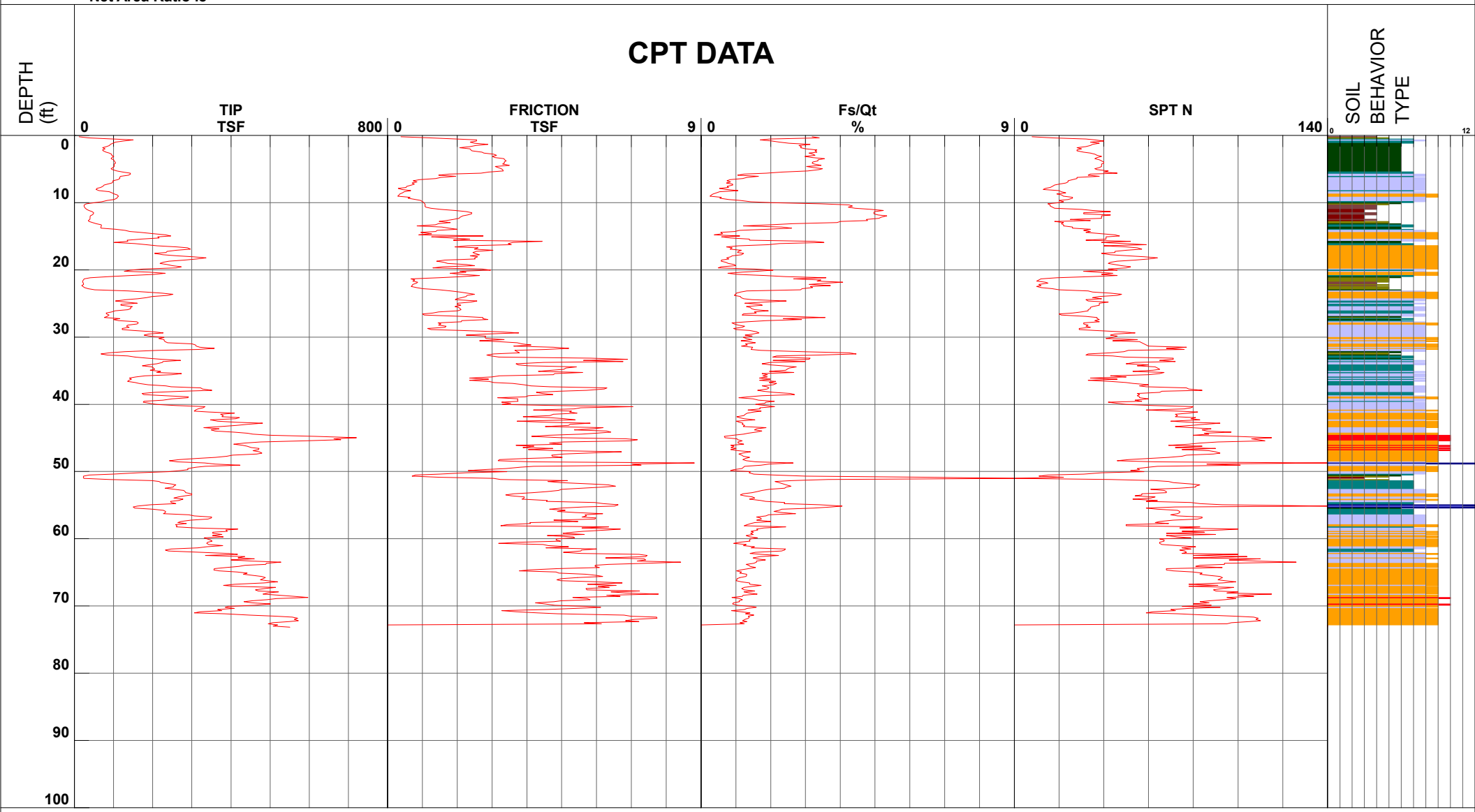
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	JM-IY	Filename	SDF(977).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-16	Date and Time	9/22/2021 10:08:00 AM	Maximum Depth	73.16 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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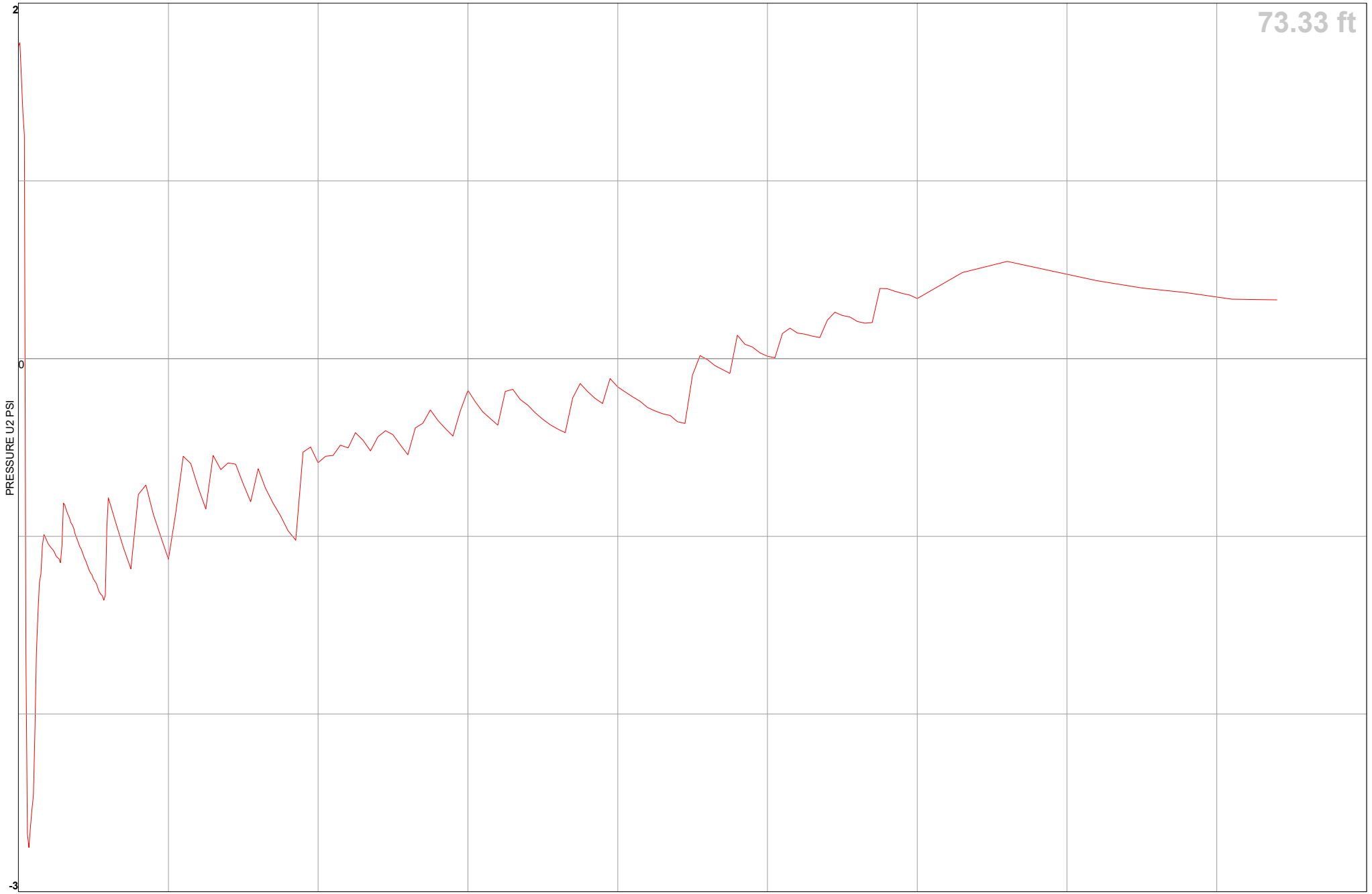
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

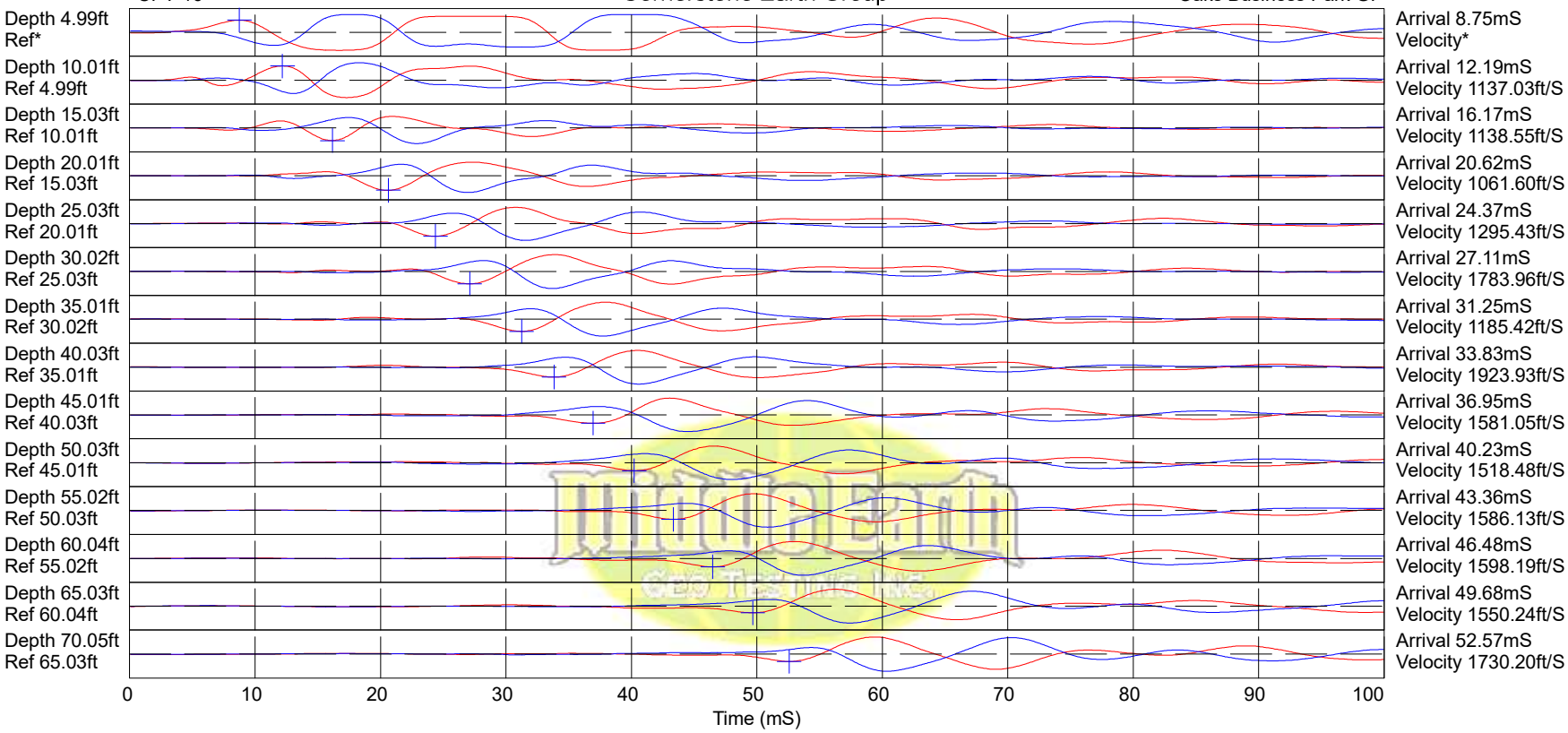
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Location	Oaks Business Park GI	Operator	JM-IY	GPS
Job Number	681-7-1	Cone Number	DDG1596	
Hole Number	CPT-16	Date and Time	9/22/2021 10:08:00 AM	
Equilized Pressure	.2	EST GW Depth During Test	72.6	



CPT-16 Cornerstone Earth Group Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83
* = Not Determined

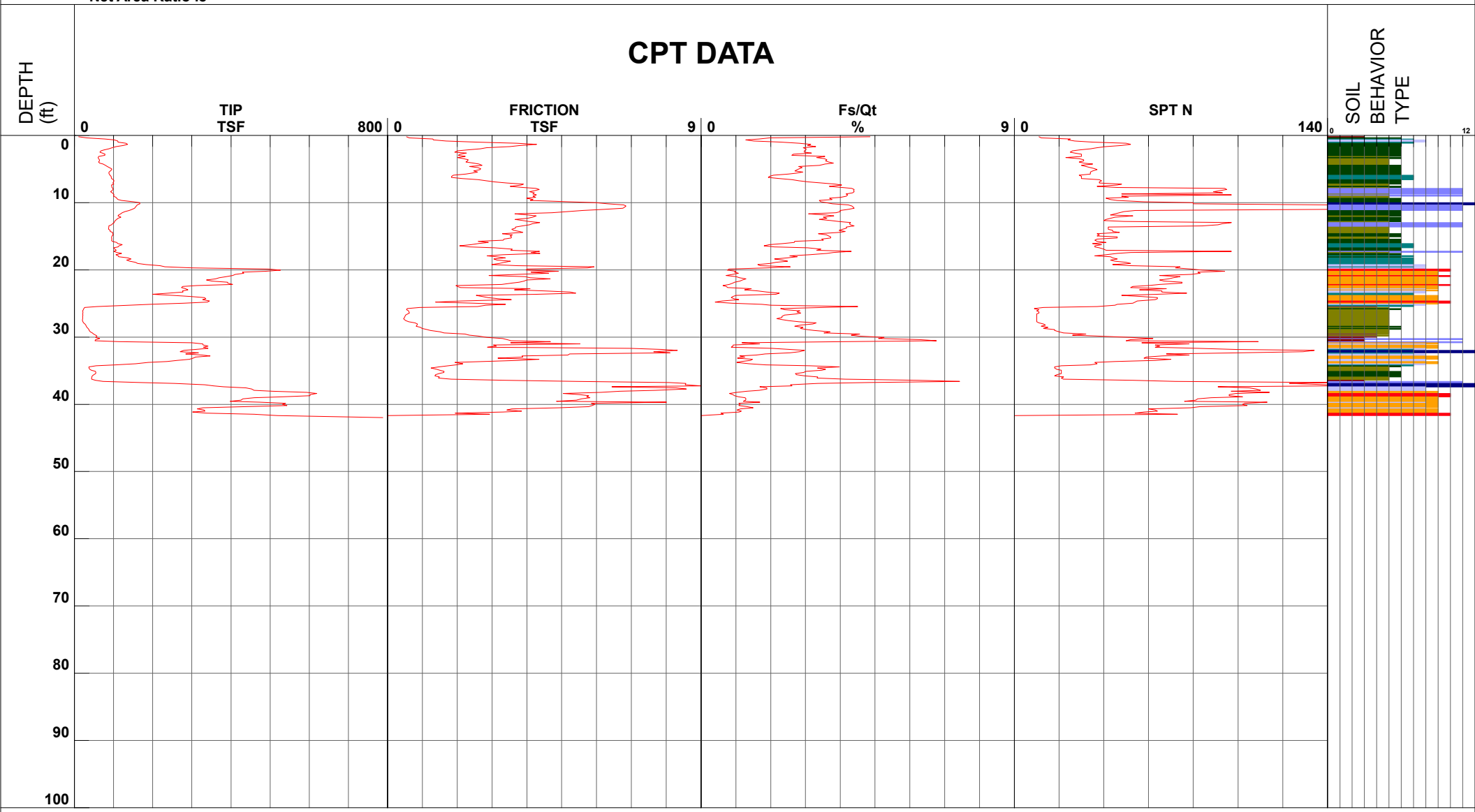
COMMENT:

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	JM-IY	Filename	SDF(976).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-17	Date and Time	9/22/2021 9:11:39 AM	Maximum Depth	41.99 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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9 - sand
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11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

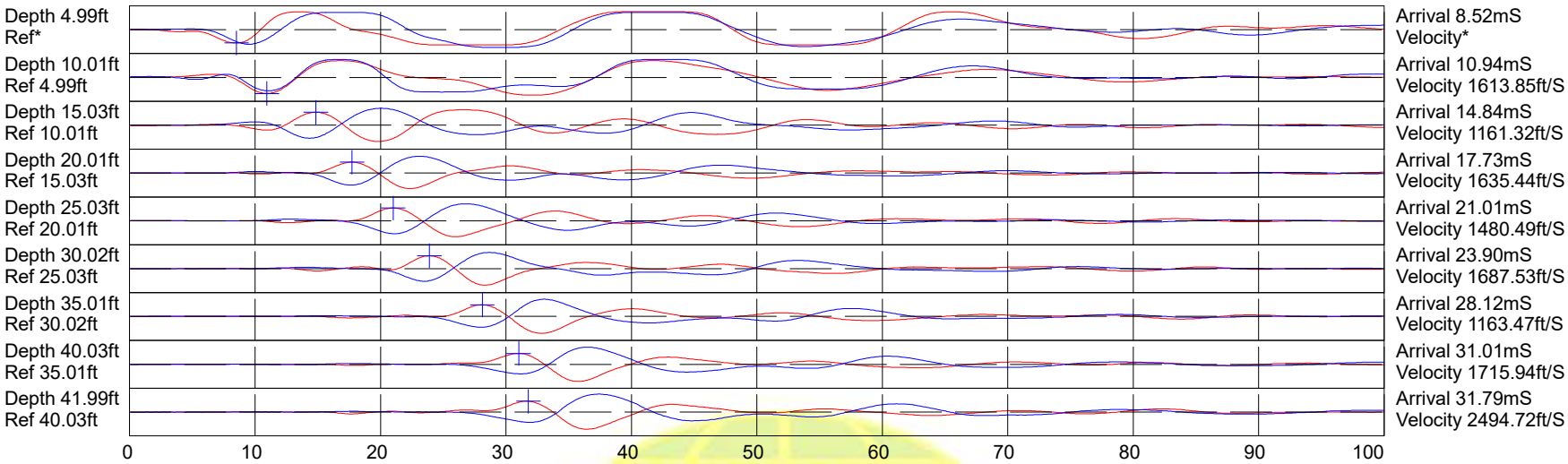
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

CPT-17

Cornerstone Earth Group

Oaks Business Park Gl



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

COMMENT:

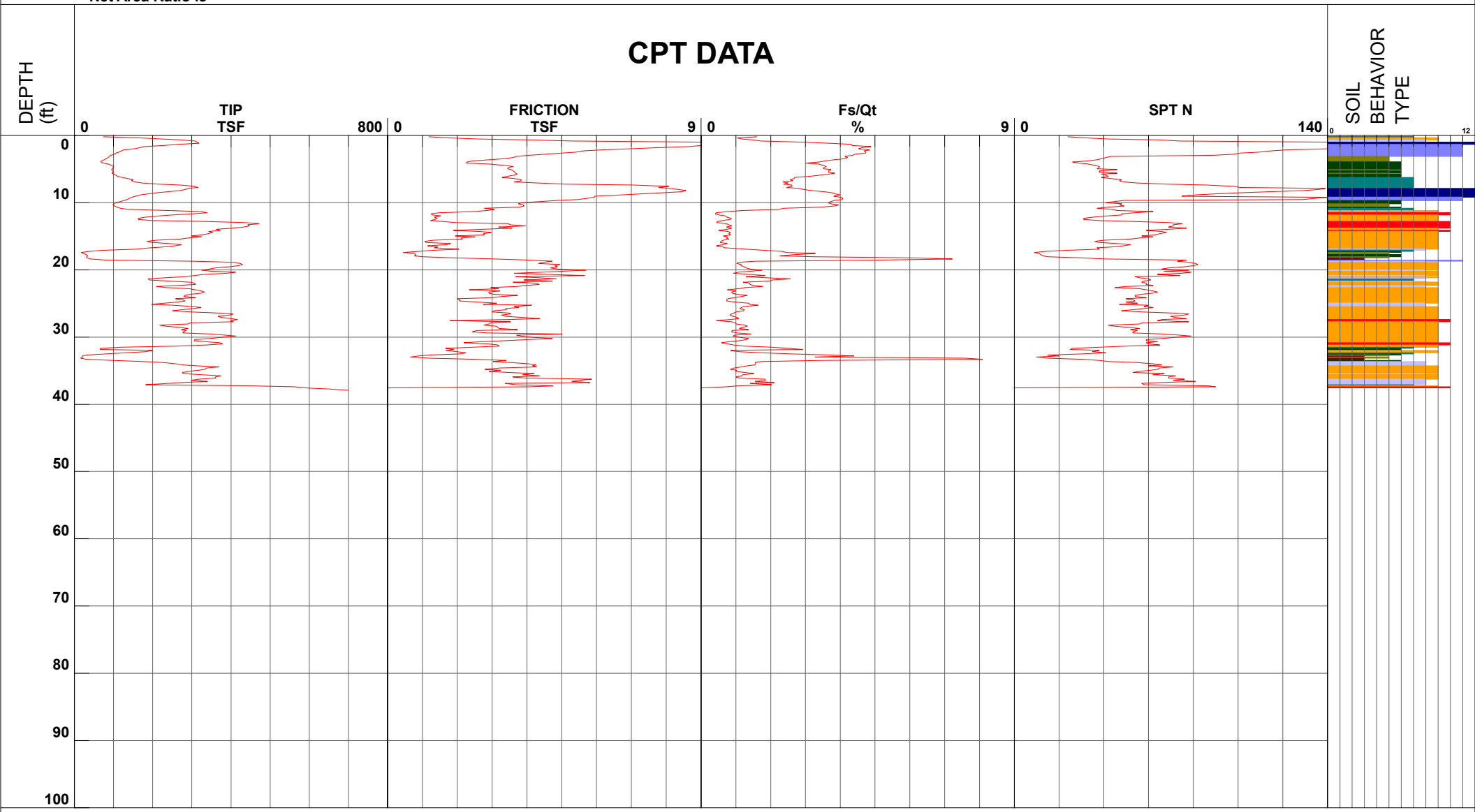
Middle Earth Geo Testing Inc.

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-OO	Filename	SDF(995).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-18	Date and Time	9/25/2021 9:35:07 AM	Maximum Depth	37.89 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



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9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

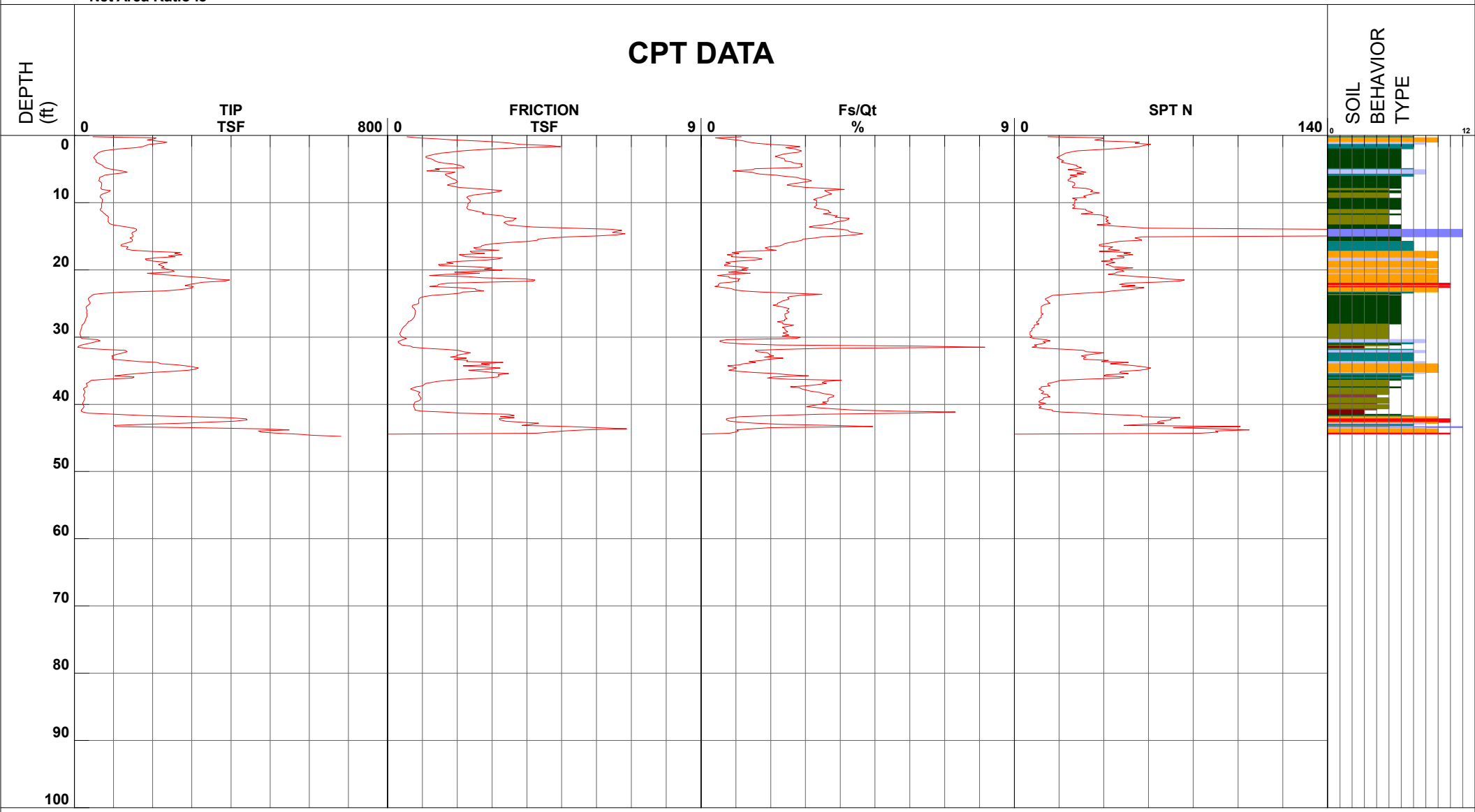
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	AJ-OO	Filename	SDF(994).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-19	Date and Time	9/25/2021 8:48:53 AM	Maximum Depth	44.78 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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3 - clay
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5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

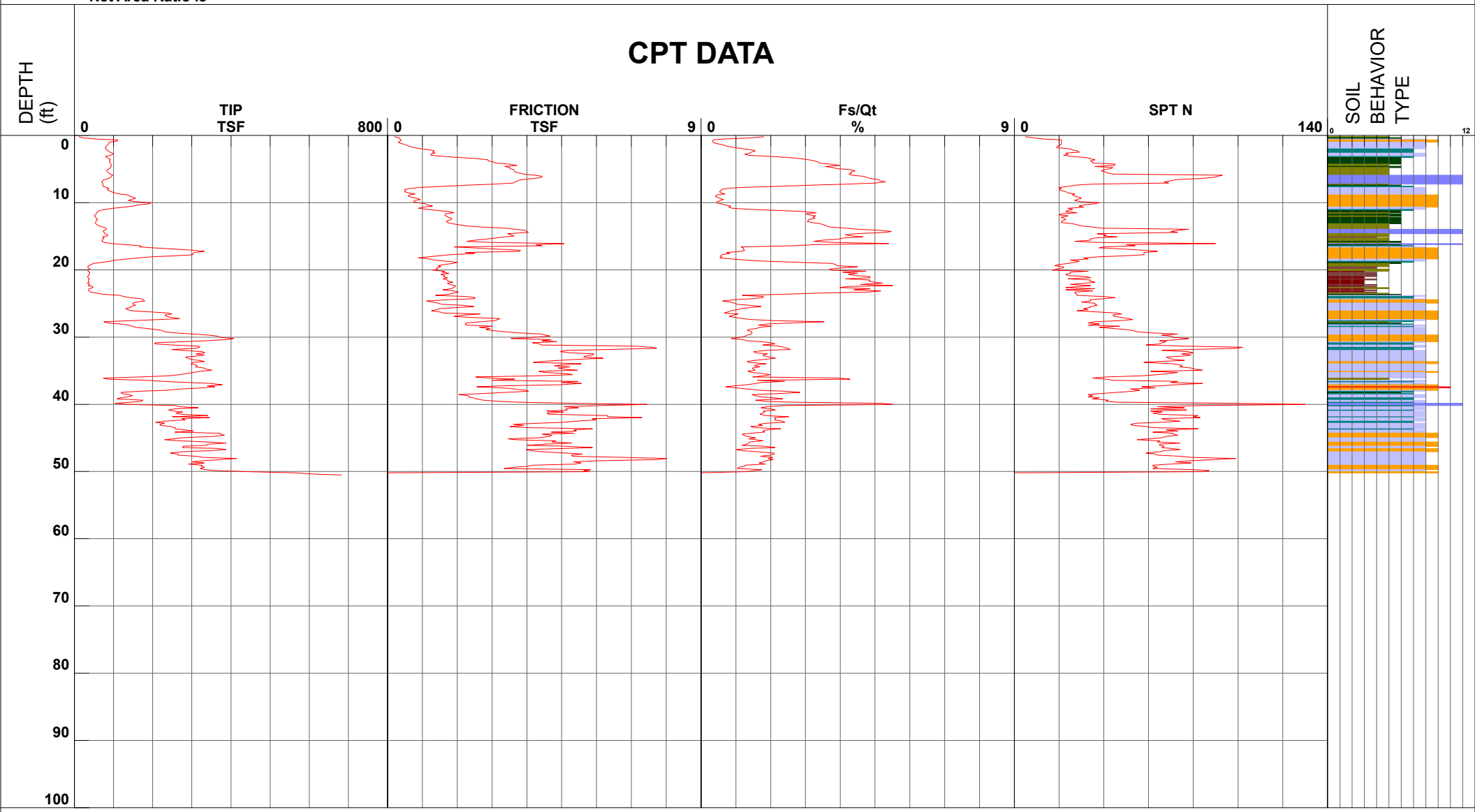
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Oaks Business Park GI	Operator	JM-IY	Filename	SDF(975).cpt
Job Number	681-7-1	Cone Number	DDG1596	GPS	
Hole Number	CPT-20	Date and Time	9/22/2021 7:33:20 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		48.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
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6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

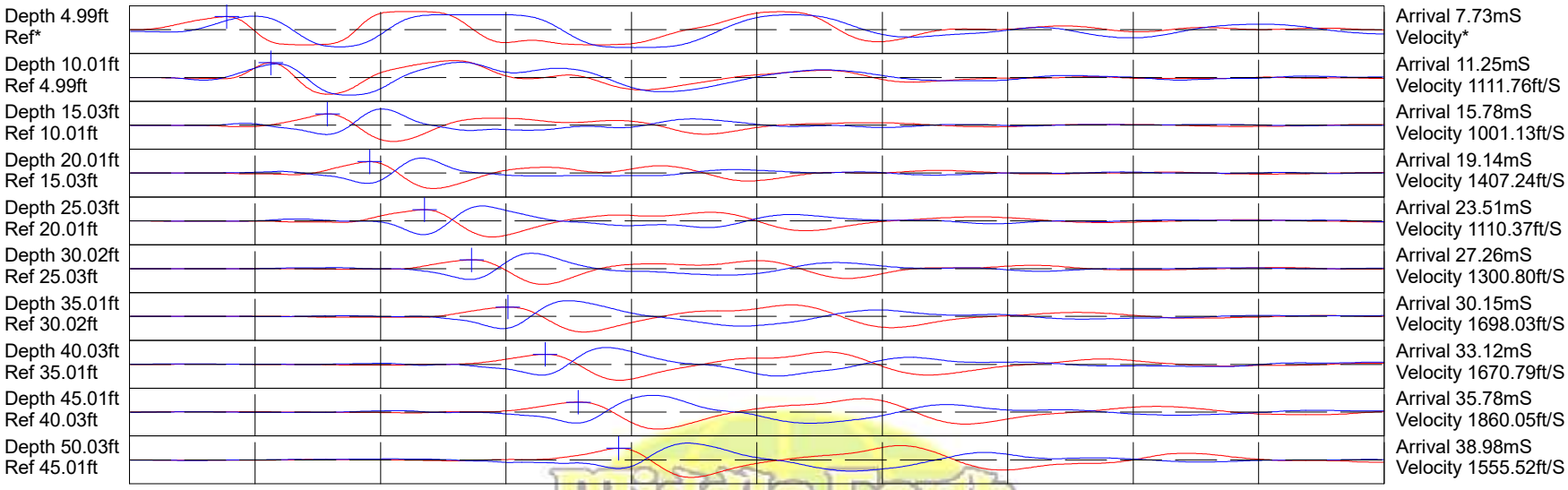
Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

CPT-20

Cornerstone Earth Group

Oaks Business Park GI



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

COMMENT:

APPENDIX B: LABORATORY TEST PROGRAM

The laboratory testing program was performed to evaluate the physical and mechanical properties of the soils retrieved from the site to aid in verifying soil classification.

Moisture Content: The natural water content was determined (ASTM D2216) on 132 samples of the materials recovered from the borings. These water contents are recorded on the boring logs at the appropriate sample depths.

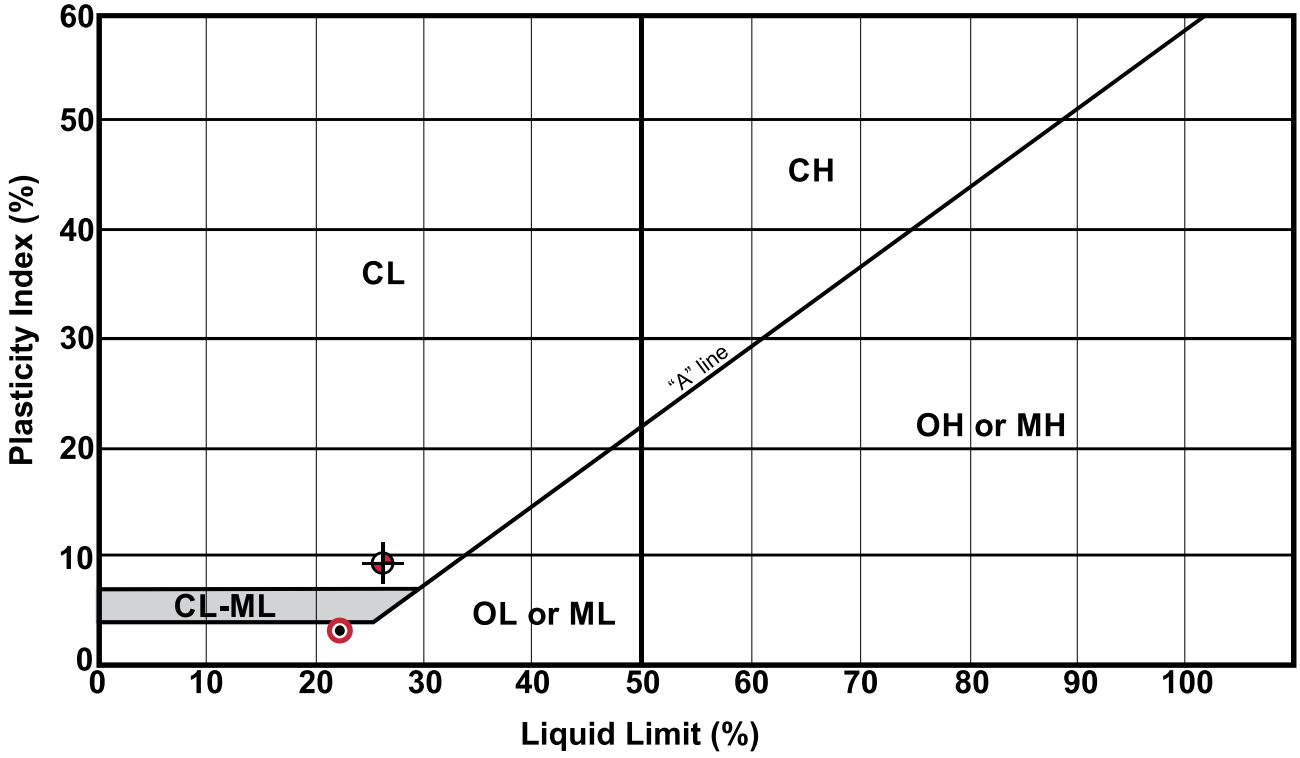
Dry Densities: In place dry density determinations (ASTM D2937) were performed on 120 samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Washed Sieve Analyses: The percent soil fraction passing the No. 200 sieve (ASTM D1140) was determined on six samples of the subsurface soils to aid in the classification of these soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Plasticity Index: Two Plasticity Index determinations (ASTM D4318) were performed on samples of the subsurface soils to measure the range of water contents over which this material exhibits plasticity. The Plasticity Index was used to classify the soil in accordance with the Unified Soil Classification System and to evaluate the soil expansion potential. Results of these tests are shown on the boring logs at the appropriate sample depths.

Corrosion: – Six soluble sulfate determinations (ASTM D4327), resistivity tests (ASTM G57), chloride determinations (ASTM D4327), and pH determinations (ASTM G51) were performed on representative samples of the subsurface soils. Results of these tests are attached to this appendix.

Plasticity Index (ASTM D4318) Testing Summary



Symbol	Boring No.	Depth (ft)	Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Passing No. 200 (%)	Group Name (USCS - ASTM D2487)
⊕	EB-1	2.0	8	26	17	9	---	Sandy Lean Clay (CL)
◉	EB-9	27.5	8	22	19	3	—	Sandy Silt (ML)

CORNERSTONE EARTH GROUP

Plasticity Index Testing Summary

The Oaks Business Park
Livermore, California

Project Number: 681-7-1

Figure Number: Figure B1

Date: October 2021

Drawn By: FLL

Corrosivity Tests Summary

CORNERSTONE EARTH GROUP

Job Number	681-7-1	Date Tested	10/26/2021
Job Name	The Oaks Business Park	Tested By	BBA, FL
Location	Livermore, CA		

Sample I.D.			Soil Visual Description	Moisture Content	pH	Temp. at Testing	Resistivity (Ohm-cm)		Chloride	Sulfate
							Corrected to 15.5 C°		Dry Wt.	Dry Wt.
Boring	Sample No.	Depth, ft.		%		C°	As Received	Saturated	mg/kg	mg/kg
				ASTM D2216	ASTM G51		G57	ASTM G57	ASTM D4327	ASTM D4327
EB-1	2A	3.5	Brown Sandy Lean Clay (CL)	8.3	7.8	21.5	-	2,967	9	38
EB-3	1A	1.5	Brown Clayey Sand (SC) [Fill]	7.0	7.2	21.6	-	3,942	3	15
EB-7	3A	5.5	Brown Sandy Lean Clay (CL)	7.4	7.5	21.5	-	4,520	7	34
EB-11	2A	3.5	Brown Clayey Sand (SC)	4.6	7.4	21.4	-	4,039	3	16
EB-15	3A	5.5	Brown Clayey Sand (SC)	3.8	7.4	21.5	-	4,370	2	16
EB-18	2A	3.5	Brown Silty Sand (SM)	4.2	7.5	21.3	-	4,763	5	16

APPENDIX B

PHASE I ENVIRONMENTAL SITE ASSESSMENTS

ARDENT
ENVIRONMENTAL GROUP, INC.

Phase I Environmental Site Assessment

Jack London Boulevard Property – SMP-39
Alameda County, California

Prepared for:
Livermore Industrial Partners 39 LLC
19700 South Vermont Avenue, Suite 101
Torrance, California 90502

Prepared by:
Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880

October 20, 2021
Project No. 101295001

ARDENT
ENVIRONMENTAL GROUP, INC.

October 20, 2021
Project No. 101295001

Mr. Will McPhee
Livermore Industrial Partners 39 LLC
19700 South Vermont Avenue, Suite 101
Torrance, California 90502

Subject: **Phase I Environmental Site Assessment**
Jack London Boulevard Property – SMP-39
Alameda County, California

Dear Mr. McPhee

Ardent Environmental Group, Inc. (Ardent) has performed a Phase I Environmental Site Assessment of the above-referenced property (site). Work was completed in general accordance with the proposal dated April 24, 2020, between Livermore Industrial Partners 39 LLC and Ardent. The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. We appreciate the opportunity to be of service to you on this project. If there are any questions, please feel free to call the undersigned at your convenience.

Sincerely,

Ardent Environmental Group, Inc.

Jonathan Anderson, P.G.
Project Geologist

Paul A. Roberts, P.G.
Principal Geologist

PAR/JPA/aw

Distribution: (1) Addressee

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EXECUTIVE SUMMARY

Ardent Environmental Group, Inc. (Ardent) was retained by Livermore Industrial Partners 39 LLC to perform a Phase I Environmental Site Assessment (ESA) for the property located immediately south of West Jack London Boulevard in an unincorporated area of Alameda County (near the city of Livermore), California (site or subject property). The site has been used for agricultural purposes or vacant land. Livermore Industrial Partners 39 LLC is considering purchasing the site for commercial redevelopment. Document review and site assessment activities for this report were conducted October 4 through October 18, 2021.

In summary, the following items were noted:

- Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant. The site vicinity consisted of vacant land until the mid-1960s. By the 1990s, the site vicinity was developed for commercial, industrial, and municipal airport purposes and as a sand and gravel quarry. A sand and gravel quarry was noted on the property adjoining south of the site by 1993. The remainder of the site vicinity was developed as observed during the site reconnaissance by 2009.
- Groundwater beneath the site is anticipated to be approximately 12 and 14 feet below ground surface (bgs) with a westerly flow direction.
- Although not considered an environmental concern, one agricultural or production groundwater well was noted along the western site boundary. Due to the well's close proximity to the site boundary, Ardent was unable to determine if this feature is on or immediately off-site.
- No other on or off-site environmental concerns were noted.

CONCLUSIONS

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E1527-13, ASTM Practice E2600-15, and the EPA Standards and Practices for All Appropriate Inquires (AAI), Final Rule (40 Code of Federal Regulations, Part 312), for the property located immediately south of West Jack London Boulevard in an unincorporated area of Alameda County (near the city of Livermore), California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on the information received to date, no evidence or indication of recognized environmental conditions (RECs), historical-RECs (HRECs), controlled-RECs (CRECs), or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property has been revealed.

RECOMMENDATIONS

Based on the information obtained during this assessment, Ardent recommends no additional investigations at this time. Following acquisition of the site, Ardent recommends that the groundwater well located along the western boundary of the site be surveyed to determine whether this feature is located on-site. If determined to be an on-site, and the feature is not planned to be used following development, the well should be abandoned in accordance with current regulatory guidelines.

1 INTRODUCTION

Ardent Environmental Group, Inc. (Ardent) was retained by Livermore Industrial Partners 39 LLC to perform a Phase I Environmental Site Assessment (ESA) for the property located immediately south of West Jack London Boulevard in an unincorporated area of Alameda County (near the city of Livermore), California (site or subject property; Figure 1). Work was conducted in general accordance with the proposal dated April 24, 2020, between Livermore Industrial Partners 39 LLC and Ardent. The site has been used for agricultural purposes or vacant land. Livermore Industrial Partners 39 LLC is considering purchasing the site for commercial redevelopment. The following sections identify the purpose, the involved parties, the scope of work, and the limitations and exceptions associated with the Phase I ESA.

1.1 Purpose of Phase I ESA

In accordance with the American Society for Testing and Materials (ASTM) E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Standard E1527-13), the objective of the Phase I ESA was to identify, to the extent feasible pursuant to ASTM Standard E1527-13, recognized environmental conditions (RECs), historical RECs (HRECs), controlled RECs (CRECs), or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property.

ASTM defines RECs as "…the presence or likely presence of any hazardous substance 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." ASTM defines HRECs as "…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)." ASTM defines CRECs as a REC "…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)."

Other environmental considerations include site features or conditions that may have an environmental component of interest but which do not meet the ASTM definition of a REC, CREC, or HREC. ASTM does not necessarily require any actions to address the presence or condition, but such conditions are identified for the sake of thoroughness and completeness.

The United States Environmental Protection Agency ("USEPA" or "EPA") has stated that ASTM Standard E1527-13, is consistent with the Standards and Practices for All Appropriate Inquires (AAI), Final Rule (40 Code of Federal Regulations [CFR], Part 312) and is compliant with the statutory criteria for all appropriate inquires. All appropriate inquires, as defined in the AAI Final Rule, must be conducted by persons seeking the landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) prior to acquiring a property or seeking or receiving federal Brownfields grants under the authorities of CERCLA. The purpose of AAI, as defined in the AAI Final Rule, was to identify releases and threatened releases of hazardous substances which cause or threaten to cause the incurrence of response costs.

As part of this Phase I ESA, Ardent also assessed whether a vapor encroachment condition (VEC) exists at the site. The VEC assessment was completed following the ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM Standard E2600-15). The objective of this work was to evaluate the possibility that hazardous materials or other adverse environmental conditions are present due to past or present use of the site and/or properties in the site vicinity.

1.2 Involved Parties

Mr. Jonathan Anderson of Ardent conducted the historical research, regulatory inquiries, and document review. Mr. Matthew Penksaw of Ardent completed the site reconnaissance, and Mr. Paul Roberts of Ardent completed oversight of the project. Mr. Anderson and Mr. Roberts meet the definition of an environmental professionals as set forth in the AAI Final Rule.

1.3 Scope of Work

Ardent's scope of work for this Phase I ESA is consistent with ASTM Standard E1527-13 and E2600-15, and included the activities listed below.

- **Review of User Provided Information** – Review of information regarding title and judicial records for environmental liens or activity and use limitations, recorded environmental liens, actual or specialized knowledge or commonly known information regarding environmental conditions at the site, the relationship of the purchase price of the property to the fair market value, readily available maps, environmental reports, and other environmental documents pertaining to the site, as available and obtained from the user/client.
- **Records Review** – Acquisition and review of records, including federal, state, tribal, and local regulatory agency databases, for the site and for properties located within a specified radius of the site; local regulatory agency files for the site and selected nearby properties of potential environmental concern; physical setting sources, including topographic maps, geologic maps, and geologic and hydrogeologic reference documents; and historic land use information including aerial photographs, historical fire insurance rate maps, building department records, and city directories, as necessary, that are reasonably ascertainable, publicly available, can be obtained within reasonable time and cost, and are practically reviewable.
- **Vapor Encroachment Condition (VEC)** – Review available regulatory and client provided data to assess Tier 1 non-numeric screening for the site. Ardent evaluated whether contaminants were present in soil and/or groundwater in the site vicinity which might pose a VEC at the site.
- **Site Reconnaissance** – Performance of a site reconnaissance to visually observe the site and any structure(s) located on the site to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. The purpose of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the site, including the general site setting, site usage, use and storage of hazardous materials and petroleum products, disposal of waste products and materials, sources of polychlorinated biphenyls (PCBs), and evidence of releases and possible risks of contamination from activities at adjacent properties.
- **Interviews** – Interviews with site representatives, including owners, occupants, and site managers, regarding the environmental condition of the site to the extent necessary and such persons are available. Interviews with state and/or local government officials as necessary.
- **Report** – Evaluation of the information and data obtained by the Phase I ESA process outlined above and preparation of this Phase I ESA report documenting findings and providing opinions and conclusions regarding possible environmental impacts and RECs at the site.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by

environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ardent should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ardent has no control. Ardent cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

As indicated in Section 13.1.5 of ASTM Standard E1527-13, the following, which is not intended to be all inclusive, represents out-of-scope items with respect to a Phase I ESA: asbestos-containing materials (ACMs), radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historic risk, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, biological agents, and mold. As part of our agreement with the client, Ardent visually assessed site buildings (if present) for possible ACMs, LBP, and mold. In addition, ASTM Standard E2600-15 supplements the ASTM Standard E1527-13 to include evaluation of VEC using Tier 1 screening.

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, Ardent did not address interpretations of zoning regulations, building code requirements, or property title issues.

1.6 User Reliance

This report may be relied upon and is intended exclusively for use by Livermore Industrial Partners 39 LLC, its partners, members, investors, affiliates, successors and assigns, and lenders. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the foregoing parties is undertaken at said parties' sole risk.

1.7 Physical Limitations

No physical limitations were encountered during the completion of this report.

1.8 Data Gaps

No significant data gaps were noted during the preparation of this Phase I ESA report.

2 GENERAL SITE CHARACTERISTICS

The following sections describe the location and the current uses of the site and adjacent properties. A site location map is presented as Figure 1, and a site vicinity map is presented as Figure 2. The proposed redevelopment is presented in Figure 3. Selected photographs of the site and surrounding properties are provided in Appendix A.

2.1 Location and Legal Description

The site comprises of approximately 52.19 acres of vacant land immediately south of West Jack London Boulevard in an unincorporated area of Alameda County (near the city of Livermore), California (Figure 2). The site has been assigned the Tax Assessor's Parcel Number (APN) 904-0003-001-04 (Figure 2). The site is referred to on these maps as "SMP-39." The site has no known addresses and no structures have apparently been constructed on the property. A complete legal description of the site is presented in the Preliminary Title Report provided in Appendix B.

The site is bounded as shown on Figure 2. Site boundary information was obtained during the site reconnaissance and information provided by Livermore Industrial Partners 39 LLC.

2.2 Site Description and Current Site Uses/Operations

The following subsections provide a description of the structures present at the site, the tenants currently occupying the site, the activities being conducted on-site, the heating and cooling systems utilized in the site building(s), the sewage disposal system, and the potable water provider for the site, if any.

2.2.1 Site Description

The site is rectangular shaped and comprises approximately 52.19-acres of vacant land.

2.2.2 Occupants

The site is currently vacant land with no occupants.

2.2.3 Heating and Cooling Systems

The site is vacant; therefore, no heating or cooling systems are present. Future heating and cooling systems will likely use electricity and natural gas provided by the local utility providers.

2.2.4 Sewage Disposal/Septic Systems

The site is vacant; therefore, no sewage disposal or septic systems are present. Future systems will likely be connected to the municipal sewer system.

2.2.5 Potable Water

The site is vacant; therefore, no potable water is present. Future potable water will be supplied by the local water purveyor. As noted in Section 6, an agricultural or production groundwater well is located along the western site boundary. Due to the close proximity to the boundary, it is unknown whether this feature is located on- or immediately off-site.

2.3 Adjacent Properties

In general, the site vicinity is used for commercial, residential, and recreational purposes (Figure 2). The site is bound to the north by West Jack London Boulevard, followed by the Livermore Municipal Airport. Further north are residences and a golf course. The site is bound to the south by a sand and gravel quarry. West of the site is vacant land. The site is bound to the east by an unlined stormwater channel, followed by vacant land and the Tesla, Inc. Distribution Center.

No aboveground storage tanks (ASTs), evidence of underground storage tanks (USTs), or possible hazardous materials or wastes were noted being stored by off-site facilities along the site property line. These off-site properties would not be considered an environmental concern to the site.

3 USER PROVIDED INFORMATION

The following sections summarize information provided by the user to assist the environmental professional in identifying the possibility of RECs in connection with the site, and to fulfill the user's responsibilities in accordance with Section 6 of ASTM Standard E1527-13. A copy of the user questionnaire is presented in Appendix B. The questionnaire was completed by Mr. Will McPhee of Livermore Industrial Partners 39 LLC.

3.1 Current Title Information

A Preliminary Title Report provided by the client was reviewed by Ardent. The Preliminary Title Report was prepared by Chicago Title Insurance Company and dated August 10, 2021. According to the Preliminary Title Report, the current owner of the site is "SMP-39, LLC, a California limited liability company." A copy of the Preliminary Title Report is provided in Appendix B.

3.2 Environmental Liens or Activity and Use Limitations

Our review of the provided title documentation did not reveal records of environmental liens or activity and use limitations (AULs) associated with the site. In addition, Mr. McPhee was not aware of environmental liens or AULs against the site that are filed or recorded under federal, state, or local law.

3.3 Specialized Knowledge

Mr. McPhee indicated that, for purposes of this assessment, the client has no specialized knowledge or experience pertaining to the site or the adjacent properties that is material to RECs in connection with the site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. McPhee indicated that, for purposes of this assessment, the client is unaware of any commonly known or reasonably ascertainable information pertaining to the site or the adjacent properties that is material to RECs in connection with the site.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the user shall consider the relationship of the purchase price of the property to fair market value of the property if the property was not affected by hazardous substances or petroleum products.

Mr. McPhee indicated that the purchase price being paid for the site reasonably reflects the fair market value of the site.

3.6 Reason for Performing Phase I ESA

Ardent was retained by Livermore Industrial Partners 39 LLC to perform a Phase I ESA as part of its real estate due diligence to purchase the site.

3.7 Other User Provided Information

No additional historical reports or information was provided by the client.

4 PHYSICAL SETTING

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon our document review and our visual reconnaissance of the site and adjacent areas.

4.1 Site Topography

Based on a review of the United States Geological Survey (USGS) 7.5 Minute Series, Livermore, California Quadrangle Topographic Map, dated 2012, the site has an approximate elevation of approximately 400 feet above mean sea level (msl). Surface topography in the region is relatively flat and slightly slopes towards the west.

4.2 Geology

The site is located within the Coast Ranges Geomorphic Province, and within the Livermore Valley. The Coast Ranges ex-tend about 600 miles from the Oregon border to central coastal California. The Coast Ranges are northwest trending and are underlain by marine and non-marine sedimentary rocks. The Livermore Valley lies approximately 40 miles east of San Francisco and 30 miles southwest of Stockton, within the structural trough of the Diablo Range. The floor of the Livermore Valley consists of continental deposits from alluvial fans, outwash plains, and lakes which include valley-fill materials, the Livermore Formation, and the Tassajara Formation. The Plio-Pleistocene Livermore Formation is primarily exposed over the south and southwest regions of the Livermore Valley and occurs in most areas beneath the surface up to 400 feet below the ground surface (bgs) and can be up to 4,000 feet thick and consist of unconsolidated to semi-consolidated beds of gravel, sand, silt, and clay (DWR, 2006).

4.3 Oil and Gas Maps

Based on a review of the California Department of Conservation, Geologic Energy Management Division (CalGEM), Well Finder Database, the site does not lie in an active oil field and no oil or natural gas wells have been drilled on the site or adjacent properties.

4.4 Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

4.4.1 Surface Waters

No natural surface water bodies, including ponds, streams, or other natural bodies of water, are present on the site. The closest nearby water bodies include groundwater that has accumulated in the sand and gravel quarry located immediately south of the site. These water bodies would not be considered an environmental concern to the site.

4.4.2 Groundwater

Groundwater information was not readily available from regulatory agencies for the site. To obtain groundwater information, Ardent reviewed the California State Water Resources Control Board (SWRCB) GeoTracker website for facilities undergoing groundwater investigations associated with releases of chemicals.

The nearest listing on the GeoTracker website was for Metro Valley Cleaners located at 1600 Freisman Road in the city of Livermore. This facility is located approximately 0.8-mile north of and at similar surface elevation to the site. Based on a review of a groundwater monitoring report dated 2007, depth to groundwater at this facility was reported to be between approximately 12 to 14 feet below ground surface (bgs) with a westerly flow direction (SCS, 2007). Based on the distance and direction, this facility would not be considered an environmental concern to the site. This depth to groundwater corresponds to the depth of water noted in the adjacent sand and gravel quarry.

5 HISTORICAL LAND USE

Ardent conducted a historical record search for both the site and surrounding areas. This included a review of one or more of the following sources that were found to be both reasonably

ascertainable and useful for the purposes of this Phase I ESA: historical aerial photographs, historical fire insurance maps, historical city directories, building permits and plans, topographic maps, property tax records, zoning/land use records, and a review of prior environmental assessment reports regarding the site. Copies of historical data are provided in Appendix C.

5.1 Summary of Historical Land Use of the Property

Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant land.

5.2 Summary of Historical Land Use of Adjoining Properties

The site vicinity consisted of vacant land until the mid-1960s. By the 1990s, the site vicinity was developed for commercial, industrial, and municipal airport purposes and as a sand and gravel quarry. A sand and gravel quarry was noted on the property adjoining south of the site by 1993. The remainder of the site vicinity was developed as observed during the site reconnaissance by 2009.

5.3 Fire Insurance Rate Maps

Historical Sanborn Fire Insurance Rate Maps (Sanborn maps) were requested from Environmental Data Resources (EDR) of Shelton, Connecticut. According to EDR, no Sanborn maps were available for the site or immediate site vicinity.

5.4 Historical Aerial Photographs

Ardent obtained historical aerial photographs from EDR. Historical aerial photographs for selected years between 1940 and 2016 were reviewed. The following presents a summary of the review:

- **1940, 1949, 1958, and 1966** – The site and site vicinity consisted of vacant land or used for agricultural purposes. A small residence is noted to the southwest of the site beginning in 1940. The Livermore Municipal Airport is first noted to the north of the site in 1966.
- **1968, 1979, 1982, 1993, and 1998** – The site continues to be vacant or used for agricultural purposes. A golf course is first noted to the northwest of the site and north of the adjacent airport. By 1993, the residential property to the southwest of the site is no longer noted, and the sand and gravel quarry are first noted. West Jack London Boulevard is first noted in the 1993 aerial photograph as an unpaved road. The sand and gravel quarry was noted to have expanded in the 1998 aerial photograph but did not encroach onto the site boundary. The remainder of the site vicinity remains unchanged.
- **2006, 2009, 2012, and 2016** – The site continues to be vacant; the site vicinity remains in similar uses as noted in earlier photographs. West Jack London Boulevard is first not-

ed being paved in the 2009 aerial photograph. A small parking lot was also noted to the north of the site between West Jack London Boulevard and the airport in the 2009 aerial photograph. A small dirt road is noted bisecting the western portion of the site in the 2012 photograph. The road is no longer present in the 2016 photograph, the site remained vacant land.

5.5 Building Department

Ardent contacted the Alameda County Building Department and requested a search for permits that may be associated with the site. Based on a records search using the APN associated with the site, no records were available for review.

5.6 City Directories

Ardent reviewed city directories obtained from EDR for the site and immediate site vicinity from 1920 to 2017. No listings were found for the site. One property located at 333 West Jack London Boulevard located immediately north of the site and beyond Jack London Boulevard is listed several times for individuals. This facility is an airport hanger associated with the Livermore Municipal Airport. As presented below in Section 7, no evidence of historical releases has been noted at this property. Based on this information, these listings would not be considered an environmental concern to the site.

5.7 Historical Topographic Maps

Historical topographic maps for the site were provided by EDR for review. The maps were dated between 1906 and 2012. No structures were noted on the site. No other pertinent information was available.

5.8 Interviews

Interviews were conducted by Ardent with key site personnel (e.g., past and present owners, operators, and/or occupants), with the objective of obtaining information indicating RECs in connection with the site. The following are the site personnel interviewed for purposes of this assessment, and a summary of their comments with regards to site conditions.

5.8.1 Interview with Owner

The site owner was no available for an interview.

5.8.2 Interview with Site Manager

The site is unoccupied; therefore, no site manager was available to interview.

5.8.3 Interviews with Occupant

The site is unoccupied; therefore, no occupants were available to interview.

5.8.4 Interviews with Local Government Officials

Representatives of local regulatory agencies were interviewed during completion of this report. The information obtained is presented throughout this report.

5.8.5 Interviews with Others

No additional interviews were conducted by Ardent.

5.9 Previous Reports and Documents

No previous reports or documents were provided to Ardent.

6 SITE RECONNAISSANCE

The site and site vicinity reconnaissance were performed by Ardent on October 18, 2021. The site reconnaissance involved a tour of the site and visual observations of adjoining properties. At the time of the site reconnaissance, the weather was sunny and warm; no weather-related obstructions were noted. Selected photographs taken during these activities are included in Appendix A.

The site was vacant land that appeared to have been recently disked. No structures were noted. The following information is provided as per ASTM standards to summarize the current conditions at the site.

6.1 Use and Storage of Hazardous Substances and Petroleum Products

No use or storage of hazardous substances or petroleum products was noted at the site.

6.2 Storage and Disposal of Hazardous Wastes

No storage or disposal of hazardous wastes was noted at the site.

6.3 Unidentified Substance Containers

No unidentified substance containers were noted at the site.

6.4 Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs)

No ASTs or evidence of USTs (e.g., fill ports, vent pipes, or manhole covers) were noted at the site.

6.5 Evidence of Releases

No evidence of chemical releases on the site, such as odors, stressed vegetation, stains, leaks, pools of liquids, and spills, was observed at the site.

6.6 Polychlorinated Biphenyls (PCBs)

Historically, PCBs (a group of hazardous substances and suspected human carcinogens) were widely used as an additive in cooling oils for electrical components. Typical sources of PCBs can include electrical transformers and light ballasts. No electrical transformers were noted.

6.7 Suspect Asbestos-Containing Building Materials (ACMs)

The manufacture of most ACMs was phased out in the 1970s, ending in 1980. Previously manufactured ACMs that were in stock continued to be used through approximately 1981. Some non-friable ACMs are still manufactured (e.g. roofing mastics). In general, buildings constructed after 1981 have a negligible potential to contain friable ACMs and a low potential for most non-friable ACMs, with the exception of roofing materials. The site is vacant, and therefore, ACMs are not present.

6.8 Lead Based Paint (LBP)

The manufacture of LBP was phased out in approximately 1978. The site is vacant, and therefore, LBP is not present.

6.9 Indications of Water Damage or Mold Growth

No structures were noted on-site, therefore, no visual indications of water damage or visible mold growth were present during the site reconnaissance.

6.10 Wastewater Systems

No wastewater systems were observed during the site reconnaissance.

6.11 Stormwater Systems

No stormwater systems were observed during the site reconnaissance.

6.12 Wells

During the site reconnaissance, an agricultural or production groundwater well was noted along the western site boundary, along with a large water AST (Figure 2). Due to the well's close proximity to the site boundary, Ardent was unable to determine if this feature is on- or

immediately off-site. Ardent is recommending that this feature be surveyed to assess whether it is located on-site. If the well is on site and not planned to be used in the future, the well should be abandoned by a state-licensed C-57 drilling contractor in accordance with current regulatory standards. This feature would not be considered an environmental concern to the site.

6.13 Other Subsurface Structures

No other subsurface structures, such as clarifiers, sumps, or pits were observed.

6.14 Other Issues

No other on or off-site issues of environmental concern were noted.

7 ENVIRONMENTAL DATABASE SEARCH

A computerized environmental information database search was performed by EDR for this Phase I ESA on October 5, 2021. The database search included federal, state, local, and tribal databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted facilities of environmental concern is presented in Appendix D. In addition, a description of the assumptions and approach to the database search is provided in Appendix D. The review was conducted to evaluate whether the site or properties within the vicinity of the site have been reported as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. No unmapped facilities were noted in the site vicinity.

The following paragraphs describe the databases that contain noted properties of environmental concern and include a discussion of the regulatory status of the facilities and potential environmental impact to the site.

7.1 Federal National Priorities List (NPL): Distance Searched – 1 mile

The NPL is the USEPA's database of uncontrolled or abandoned hazardous waste properties identified for priority remedial actions under the Superfund program. This database includes proposed NPL listings.

Neither the site nor properties located within a one-mile radius were listed in this database.

7.2 Federal Delisted NPL: Distance Searched – 0.5 mile

This database contains delisted NPL properties under the Superfund program. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the USEPA uses to delete properties from the NPL. In accordance with 40 Code of Federal Regulations (CFR) 300.425. (e), properties may be deleted from the NPL where no further response is appropriate.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.3 Federal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List: Distance Searched – 0.5 mile

The CERCLIS database has been replaced by the Superfund Enterprise Management System (SEMS) database, which tracks hazardous waste sites and remedial activities performed in support of the EPA's Superfund Program. This database also includes properties listed on the SEMS-ARCHIVE database for facilities with statuses of No Further Remedial Action Planned (NFRAP).

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.4 Federal Corrective Action Report (CORRACTS): Distance Searched – 1 mile

The USEPA maintains this database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing corrective action. A corrective action order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.

Neither the site nor properties located within a one-mile radius were listed in this database.

7.5 Federal Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities List: Distance Searched – 0.5 mile

The RCRA TSD database (non-CORRACTS) is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste. Inclusion on this list is for permitting purposes and is not indicative of a release.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.6 Federal RCRA Generators List: Distance Searched – Site and Adjoining Properties

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on this list is for permitting purposes and is not indicative of a release.

Neither the site nor adjoining properties were listed on this database.

7.7 Federal Institutional Control/Engineering Control Registries: Distance Searched – Site

These lists identify properties with engineering and/or institutional controls. 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 affect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on the site. Deed restrictions are generally required as part of the institutional controls.

The site was not listed in this database.

7.8 Federal Emergency Response Notification System (ERNS) List: Distance Searched – Site

The ERNS database, maintained by the USEPA, contains information on reported releases of oil and hazardous substances.

The site was not listed in this database.

7.9 Federal Brownfield List: Distance Searched – 0.5 mile

The USEPA Brownfield database, entitled Targeted Brownfield's Assessments (TBA), lists properties for which the USEPA is providing funding and/or technical support for environmental assessments and investigations. The objective of the TBA is to promote cleanup and redevelopment of undesirable properties with environmental issues.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.10 State Calsites Database (Calsites) or State-Equivalent CERCLIS: Distance Searched – 1 mile

The Calsites database, also known as the State-equivalent CERCLIS, is maintained by the Cal-EPA Department of Toxic Substances Control (DTSC). This database contains

information on AWP and both known and potentially contaminated properties. Two-thirds of these properties have been classified, based on available information, as needing no further action (NFA) by the DTSC. The remaining properties are in various stages of review and remediation to determine if a problem exists. These properties are presented by EDR on the EnviroStor databases.

Neither the site nor properties located within a 1-mile radius were listed in this database.

7.11 State Solid Waste Landfill Sites (SWLF): Distance Searched – 0.5 mile

The SWLF database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Board's Solid Waste Information System (SWIS) and the SWRCB Waste Management Unit Database (WMUD) database.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.12 State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – 0.5 mile

The LUST information system is obtained from by the SWRCB.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.13 State Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Registration List: Distance Searched – Site and Adjoining Properties

UST and AST databases are provided by the SWRCB. Inclusion on these lists is for permitting purposes and is not indicative of a release.

Neither the site nor adjoining properties were listed in this database.

7.14 State Voluntary Cleanup Programs (VCPs): Distance Searched – 0.5 mile

The State VCP database lists low threat level properties with either confirmed or unconfirmed releases. Project proponents have requested that the DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.15 Indian Reservations: Distance Searched – 1 mile

This list depicts Indian administered lands of the United States that have an area equal to or greater than 640 acres. No Indian Reservations were listed within a one-mile radius from the site. Due to the lack of Indian Reservations within one-mile of the site, other tribal database listings required by ASTM and AAI were deemed not applicable. These listings would include tribal-equivalent NPL, CERCLIS, Landfill and/or Solid Waste Disposal, LUST, UST and AST Registrations, Institutional Control/Engineering Control Registries, VCPs, and Brownfields.

7.16 Other Non-ASTM and AAI Database: Distance Searched – Site

Other databases were included in the EDR Report but are not required by ASTM or AAI. The site was not listed on these databases.

8 VAPOR ENCROACHMENT CONDITION (VEC)

Ardent completed a VEC study for the site using Tier 1 criteria as recommended by ASTM E 2600-15. The Tier 1 screening identifies surrounding facilities that pose a possible vapor intrusion source to the site based on the results of the Phase I ESA investigations and certain criteria outlined by ASTM. These criteria include a certain distance from the target site (referred to by ASTM as within the "area of concern"); the types of chemicals used (referred to by ASTM as the "chemicals of concern"); and a plume test to determine if the plume associated with a source of contamination is close enough to the site to impact indoor air quality. A VEC is defined by ASTM as *"…the presence or likely presence of chemicals of concern vapors in the vadose zone of the target property caused by the release of vapors from contaminated soil and/or groundwater either on or near the target property identified by the Phase I ESA."* Based on our review of information obtained during the completion of this Phase I ESA, a VEC does not exist at the site.

9 REGULATORY RECORDS REVIEW

The SWRCB, California Regional Water Quality Control Board, San Francisco Bay Region (SFRWQCB), DTSC, Alameda County Fire Department (ACFD), and Alameda County Environmental Health (ACEH) are the lead regulatory agencies for permitting and regulating USTs, ASTs, LUST cases, and/or facilities that use, store, or generate hazardous waste or hazardous materials. The SWRCB/SFRWQCB and DTSC allow tracking of case files using an on-line mapping system, while the ACFD and ACEH require site addresses to fulfill requests for file reviews. Since no addresses have been issued to the site, no file requests could be submitted to the ACFD and ACEH. Based on the fact that no buildings have been apparently

constructed on the site and the site has remained vacant since the early 1900s, there is a low likelihood that files exist at these agencies. Ardent researched information on the SWRCB and DTSC databases; no files were noted.

10 FINDINGS, OPINIONS AND CONCLUSIONS

Based upon the results of this Phase I ESA the following findings, opinions and conclusions are provided.

10.1 Findings and Opinions

The following presents a summary of findings associated with this Phase I ESA performed for the subject property, including known or suspect RECs, HRECs, CRECs, and other environmental considerations (i.e. de minimis environmental conditions or conditions that generally do not present a material risk of harm to public health or the environment).

- Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant. The site vicinity consisted of vacant land until the mid-1960s. By the 1990s the site vicinity was developed for commercial, industrial, and municipal airport purposes and as a sand and gravel quarry. A sand and gravel quarry was noted on the property adjoining south of the site by 1993. The remainder of the site vicinity was developed as observed during the site reconnaissance by 2009.
- Groundwater beneath the site is anticipated to be approximately 12 and 14 feet bgs with a westerly flow direction.
- Although not considered an environmental concern, one agricultural or production groundwater well was noted along the western site boundary. Due to the well's close proximity to the site boundary, Ardent was unable to determine if this feature is on or immediately off-site.
- No other on or off-site environmental concerns were noted.

10.2 Conclusions

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the ASTM Practice E1527-13, ASTM Practice E2600-15, and the EPA Standards and Practices for AAI, Final Rule (40 CFR, Part 312), for the property located immediately south of West Jack London Boulevard in an unincorporated area of Alameda County (near the city of Livermore), California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on the information received to date, no evidence or indication of RECs, HRECs, CRECs, or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property has been revealed.

11 RECOMMENDATIONS

Based on the information obtained during this assessment, Ardent recommends no additional investigations at this time. Following acquisition of the site, Ardent recommends that the groundwater well located along the western boundary of the site be surveyed to determine whether this feature is located on-site. If determined to be an on-site, and the feature is not planned to be used following development, the well should be abandoned in accordance with current regulatory guidelines.

12 SELECTED REFERENCES

California Department of Conservation, Geologic Energy Management Division (CalGEM), 2021, Well Finder online database, reviewed October 6.

California Department of Water Resources (DWR), 2006, Bulletin No. 118-2, Evaluation of Groundwater Resources: Livermore Valley Groundwater Basin.

Environmental Data Resources, Inc. (EDR), 2021, Regulatory Database Report, dated October 5.

SCS Engineers (SCS), Additional Groundwater Investigation Report, Freisman Ranch Property, 1600 Freisman Road, Livermore, California: Report prepared for Alameda County Environmental Health Services, Almeda, dated October 12.

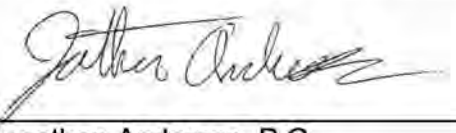
United States Geological Survey, 2012, Livermore, California Quadrangle 7.5-Minute Series Topographic Map.

13 QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

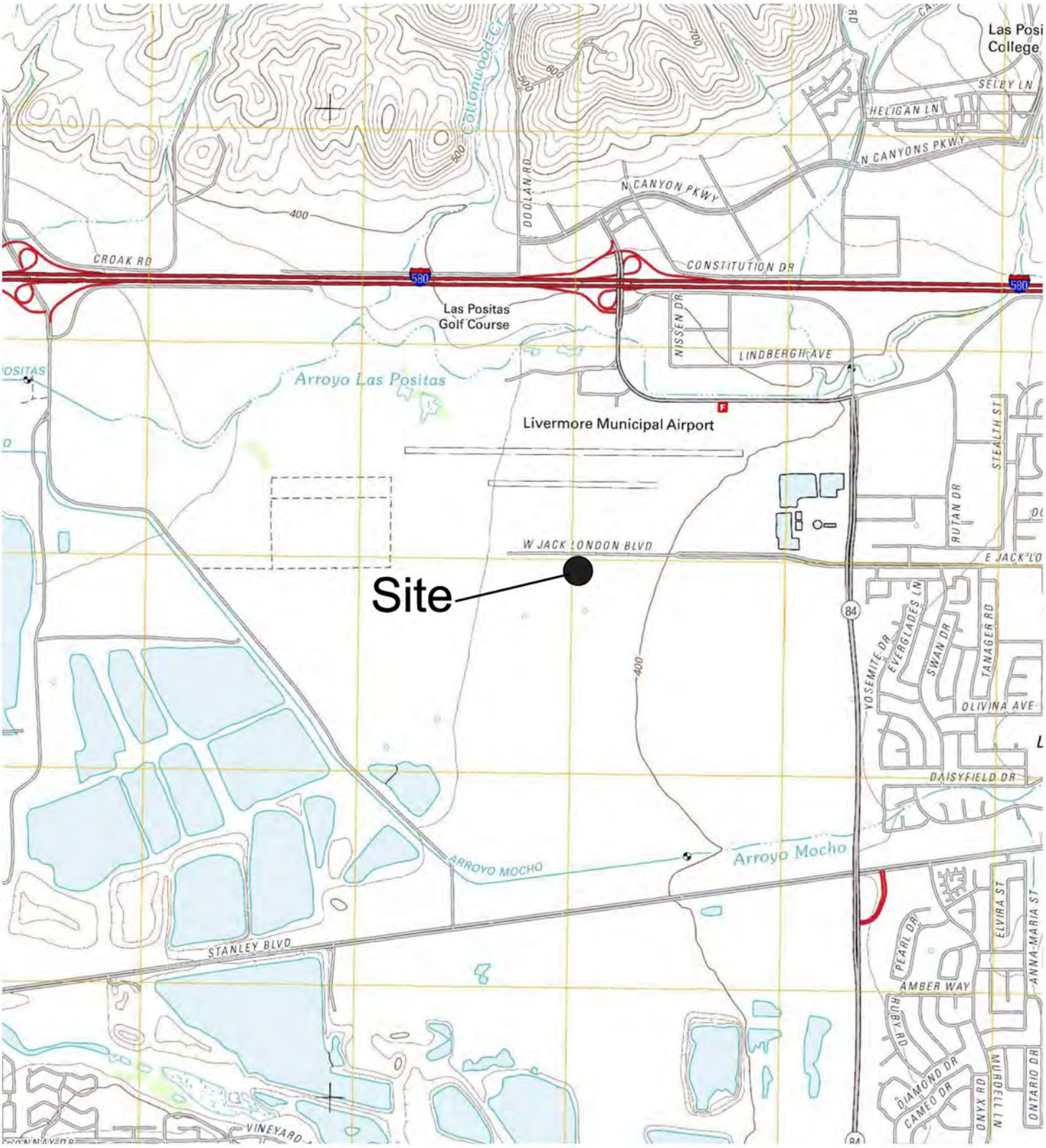
Mr. Jonathan Anderson states that the Phase I ESA was performed under his direct supervision, and that he has reviewed and approved the report, and the methods and procedures employed in the development of the report conform to the minimum industry standards. Mr. Kawasaki certifies that Ardent project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

Pursuant to Paragraph 12.13 of the ASTM Standard E1527-13:

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR §312. I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Jonathan Anderson, P.G.
Project Geologist



Source: United States Geological Survey (USGS) 7.5 minute series, Livermore, California, Topographic Quadrangle Map dated 2012

N

0 Miles 0.25 0.5 1 1.5

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 101295001	SITE LOCATION MAP	FIGURE 1
	DATE 10/21	JACK LONDON BOULEVARD-SMP-39 ALAMEDA COUNTY, CALIFORNIA	

LEGEND

- Approximate Site Boundary
- ① Livermore Municipal Airport, 680 Terminal Circle
- ② Sand and Gravel Quarry
- ③ Livermore Commercial Warehouse Building Occupied by Tesla, Inc., 800 Atlantis Court
- ④ Bus Parking and Maintenance Facility Occupied by Livermore Amador Valley Transit Authority, 875 Atlantis Court
- ⑤ Industrial Building Occupied by Draexlmaier Group, 801 Challenger Street
- ⑥ GILLIG, LLC, 451 Discovery Drive
- ⑦ Tesla, Inc. Distribution Center, 1200 Voyager Street
- ⑧ City of Livermore Water Resources Division, 101 West Jack London Boulevard
- ⑨ Vacant Land
- ⑩ Potential Agricultural Well or Groundwater Production Well

N

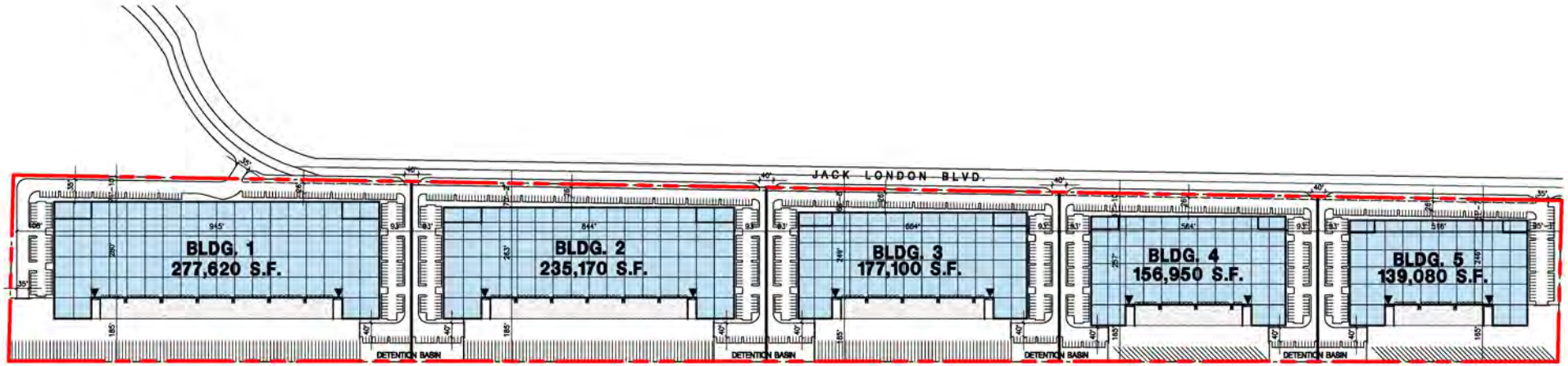
Approximate Scale, Feet

0 500 1,000 2,000

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	SITE VICINITY MAP	FIGURE
101295001		2
DATE 10/21	JACK LONDON BOULEVARD-SMP-39 ALAMEDA COUNTY, CALIFORNIA	



LEGEND

Approximate Site Boundary

N

Approximate Scale, Feet

0 150 300 600

Dimensions, Directions, and Locations are Approximate

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	PROPOSED REDEVELOPMENT	FIGURE
101295001		3
DATE	JACK LONDON BOULEVARD-SMP-39	
10/21	ALAMEDA COUNTY, CALIFORNIA	

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1: Site, looking southeast.

Photograph No. 2: Western site boundary, looking south.

Photograph No. 3: **Groundwater well and water aboveground storage tank (AST) located along western site boundary.**

Photograph No. 4: **Agricultural land located west of the site, looking west.**

Photograph No. 5: Livermore Municipal Airport, looking north.

Photograph No. 6: Jack London Boulevard, looking east.

APPENDIX B

USER PROVIDED INFORMATION

Chicago Title Company

2150 John Glenn Dr, Suite 400, , Concord, CA 94520
Phone: (925) 288-8000 ● Fax:

Issuing Policies of Chicago Title Insurance Company

Order No.: 36300782-363-LB-KD

TO:

Colliers International
3825 Hopyard Rd., Suite 195
Pleasanton, CA 94588

ATTN: .**John Steinbuch**
YOUR REFERENCE:

Title Officer: Kevin Davis

Escrow Officer: Laurie Balding-Smith
1676 N. California Blvd., Suite 117
Walnut Creek, CA 94596
(925) 288-8300
(925) 287-8007

PROPERTY ADDRESS: Apn: 904-0003-001-04, Livermore, CA

PRELIMINARY REPORT - D

In response to the application for a policy of title insurance referenced herein, ***Chicago Title Company*** *hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Florida Corporation.

Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.

Chicago Title Company

By: _____
Authorized Signature

By: _____
Randy Quirk
President

ATTEST _____
Marjorie Nemzura
Corporate Secretary

Chicago Title Company

2150 John Glenn Dr, Suite 400, , Concord, CA 94520
Phone: (925) 288-8000 • Fax:

PRELIMINARY REPORT - D

EFFECTIVE DATE: **August 10, 2021 at 7:30 a.m.**

ORDER NO.: 36300782-363-LB-KD

The form of policy or policies of title insurance contemplated by this report is:

CLTA Standard Coverage Policy (04-08-14)
ALTA Extended Loan Policy (6-17-06)

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

   A Fee

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

   SMP-39, LLC, a California limited liability company

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

   See Exhibit A attached hereto and made a part hereof.

EXHIBIT A

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF LIVERMORE, IN THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

ALL THAT REAL PROPERTY SITUATE IN THE SANTA RITA RANCHO, ALAMEDA COUNTY, CALIFORNIA, BEING A PORTION OF THE LAND DESCRIBED AS PARCELS 1 AND 2 IN THE GRANT DEED TO PLEASANTON GRAVEL CO., AS RECORDED DECEMBER 15, 1977, ON REEL 5181, AT IMAGE 177 (SERIES NO. 77-247154), ALAMEDA COUNTY RECORDS, BEING DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID PARCEL 1; THENCE ALONG THE WESTERLY LINE OF SAID PARCEL 1, SOUTH 00° 28' 57" WEST, 1000.01 FEET MORE OR LESS TO A POINT DISTANT 1000 FEET SOUTHERLY OF, MEASURED AT RIGHT ANGLES, TO THE NORTHERLY LINE OF SAID PARCELS 1 AND 2 AND THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE PARALLEL TO THE NORTH LINE OF SAID PARCELS 1 AND 2, SOUTH 89° 24' 17" EAST, 4493.91 FEET TO A POINT ON THE EASTERLY LINE OF SAID PARCEL 2; THENCE ALONG THE EAST LINE OF SAID PARCEL 2, SOUTH 00° 16' 36" WEST, 469.21 FEET; THENCE LEAVING SAID EAST LINE, SOUTH 89° 39' 52" WEST, 4496.04 FEET TO INTERSECT THE WEST LINE OF SAID PARCEL 1; THENCE ALONG THE SAID WEST LINE, NORTH 00° 28' 57" EAST, 542.25 FEET TO THE POINT OF BEGINNING.

ASSESSOR'S PARCEL NO. 904-0003-001-04

EXHIBIT A
(Continued)

EXCEPTIONS

AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:

1. Property taxes, which are a lien not yet due and payable, including any assessments collected with taxes to be levied for the fiscal year 2021-2022.

2. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

3. Prior to close of escrow, please contact the Tax Collector's Office to confirm all amounts owing, including current fiscal year taxes, supplemental taxes, escaped assessments and any delinquencies.

4. The land herein described lies within the boundary of Pleasanton Township County Water District as said boundaries are shown on the Map filed July 26, 1915, in Book 14 of Maps, and is subject to the Agreement recorded May 3, 1917, In Book 64 of Miscellaneous Records, Page 64 and re-recorded In Book 64 of Said Records, Page 307, between the water district and Spring Valley Water Company regarding the use of subterranean water of Arroyo del Valle and other creeks.

5. Matters contained in that certain document

Entitled:	Agreement for Specific Plan for Livermore-Amador Valley Quarry Area Reclamation
Dated:	Not Shown
Executed by:	Pleasanton Gravel Co., a California Corporation and Zone 7, Alameda County Flood Control and Water Conservation District
Recording Date:	March 24, 1989
Recording No:	89-081504, of Official Records

Reference is hereby made to said document for full particulars.

6. Matters contained in that certain document

Entitled:	Agreement for Mining Restriction Declaration
Dated:	December 8, 1992
Executed by:	Pleasanton Gravel Co., a California Corporation and G. W. Jamieson
Recording Date:	December 8, 1992
Recording No:	92-399614, of Official Records

Reference is hereby made to said document for full particulars.

Matters contained in that certain document

Entitled:	Amendment to Mining Restriction Declaration
Dated:	October 1, 2007
Executed by:	Pleasanton Gravel Co., a California Corporation and Jamieson Company, LLC. a California limited liability company, et al
Recording Date:	October 24, 2007
Recording No:	2007374978, of Official Records

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

7. Intentionally deleted.

8. Intentionally deleted.

9. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

   Limited Liability Company: SMP-39, LLC, a California limited liability company

   a) A copy of its operating agreement, if any, and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member.

   b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps.

   c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member.

   d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity is currently domiciled.

   e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

   f) If Limited Liability Company is a Single Member Entity, a Statement of Information for the Single Member will be required.

   g) Each member and manager of the LLC without an Operating Agreement must execute in the presence of a notary public the Certificate of California LLC (Without an Operating Agreement) Status and Authority form.

10. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

    Limited Liability Company: Livermore Industrial Partners 39, LLC, a California limited liability company

EXCEPTIONS
(Continued)

a) A copy of its operating agreement, if any, and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member.

b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps.

c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member.

d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity is currently domiciled.

e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

f) If Limited Liability Company is a Single Member Entity, a Statement of Information for the Single Member will be required.

g) Each member and manager of the LLC without an Operating Agreement must execute in the presence of a notary public the Certificate of California LLC (Without an Operating Agreement) Status and Authority form.

11. Lack of record access to any public street or highway.

12. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

    The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

    The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

13. The search did not disclose any open mortgages or deeds of trust of record, therefore the Company reserves the right to require further evidence to confirm that the property is unencumbered, and further reserves the right to make additional requirements or add additional items or exceptions upon receipt of the requested evidence.

END OF EXCEPTIONS

NOTES SECTION

1. Note: Property taxes for the fiscal year shown below are PAID. For proration purposes the amounts were:

Tax Identification No.:	904-0003-001-04
Fiscal Year:	2020-2021
1st Installment:	$146.64
2nd Installment:	$146.64
Exemption:	$0.00
Land:	$11,019.00
Improvements:	$0.00
Personal Property:	$0.00
Code Area:	64-001
Bill No.:	42940400

2. None of the items shown in this report will cause the Company to decline to attach CLTA Endorsement Form 100 to an Extended Coverage Loan Policy, when issued.

3. Note: The name(s) of the proposed insured(s) furnished with this application for title insurance is/are:

   Livermore Industrial Partners 39, LLC, a California limited liability company

4. Note: There are NO conveyances affecting said Land recorded within 24 months of the date of this report.

5. Your application for title insurance was placed by reference to only a street address or tax identification number. Based on our records, we believe that the legal description in this report covers the parcel(s) of Land that you requested. If the legal description is incorrect, the seller/borrower must notify the Company and/or the settlement company in order to prevent errors and to be certain that the correct parcel(s) of Land will appear on any documents to be recorded in connection with this transaction and on the policy of title insurance.

6. Note: If a county recorder, title insurance company, escrow company, real estate broker, real estate agent or association provides a copy of a declaration, governing document or deed to any person, California law requires that the document provided shall include a statement regarding any unlawful restrictions. Said statement is to be in at least 14-point bold face type and may be stamped on the first page of any document provided or included as a cover page attached to the requested document. Should a party to this transaction request a copy of any document reported herein that fits this category, the statement is to be included in the manner described.

7. Note: Any documents being executed in conjunction with this transaction must be signed in the presence of an authorized Company employee, an authorized employee of an agent, an authorized employee of the insured lender, or by using Bancserv or other approved third-party service. If the above requirement cannot be met, please call the Company at the number provided in this report.

8. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

INFORMATIONAL NOTES
(Continued)

9. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

10. Pursuant to Government Code Section 27388.1, as amended and effective as of 1-1-2018, a Documentary Transfer Tax (DTT) Affidavit may be required to be completed and submitted with each document when DTT is being paid or when an exemption is being claimed from paying the tax. If a governmental agency is a party to the document, the form will not be required. DTT Affidavits may be available at a Tax Assessor-County Clerk-Recorder.

END OF NOTES

Kevin Davis/cl

Wire Fraud Alert

This Notice is not intended to provide legal or professional advice. If you have any questions, please consult with a lawyer.

All parties to a real estate transaction are targets for wire fraud and many have lost hundreds of thousands of dollars because they simply relied on the wire instructions received via email, without further verification. **If funds are to be wired in conjunction with this real estate transaction, we strongly recommend verbal verification of wire instructions through a known, trusted phone number prior to sending funds.**

In addition, the following non-exclusive self-protection strategies are recommended to minimize exposure to possible wire fraud.

- **NEVER RELY** on emails purporting to change wire instructions. Parties to a transaction rarely change wire instructions in the course of a transaction.
- **ALWAYS VERIFY** wire instructions, specifically the ABA routing number and account number, by calling the party who sent the instructions to you. DO NOT use the phone number provided in the email containing the instructions, use phone numbers you have called before or can otherwise verify. **Obtain the phone number of relevant parties to the transaction as soon as an escrow account is opened**. DO NOT send an email to verify as the email address may be incorrect or the email may be intercepted by the fraudster.
- **USE COMPLEX EMAIL PASSWORDS** that employ a combination of mixed case, numbers, and symbols. Make your passwords greater than eight (8) characters. Also, change your password often and do NOT reuse the same password for other online accounts.
- **USE MULTI-FACTOR AUTHENTICATION** for email accounts. Your email provider or IT staff may have specific instructions on how to implement this feature.

For more information on wire-fraud scams or to report an incident, please refer to the following links:

Federal Bureau of Investigation:
http://www.fbi.gov

Internet Crime Complaint Center:
http://www.ic3.gov

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FIDELITY NATIONAL FINANCIAL, INC.
PRIVACY NOTICE

Effective January 1, 2020

Fidelity National Financial, Inc. and its majority-owned subsidiary companies (collectively, "FNF," "our," or "we") respect and are committed to protecting your privacy. This Privacy Notice explains how we collect, use, and protect personal information, when and to whom we disclose such information, and the choices you have about the use and disclosure of that information.

A limited number of FNF subsidiaries have their own privacy notices. If a subsidiary has its own privacy notice, the privacy notice will be available on the subsidiary's website and this Privacy Notice does not apply.

Collection of Personal Information

FNF may collect the following categories of Personal Information:

- contact information (*e.g.*, name, address, phone number, email address);
- demographic information (*e.g.*, date of birth, gender, marital status);
- identity information (*e.g.* Social Security Number, driver's license, passport, or other government ID number);
- financial account information (*e.g.* loan or bank account information); and
- other personal information necessary to provide products or services to you.

We may collect Personal Information about you from:

- information we receive from you or your agent;
- information about your transactions with FNF, our affiliates, or others; and
- information we receive from consumer reporting agencies and/or governmental entities, either directly from these entities or through others.

Collection of Browsing Information

FNF automatically collects the following types of Browsing Information when you access an FNF website, online service, or application (each an "FNF Website") from your Internet browser, computer, and/or device:

- Internet Protocol (IP) address and operating system;
- browser version, language, and type;
- domain name system requests; and
- browsing history on the FNF Website, such as date and time of your visit to the FNF Website and visits to the pages within the FNF Website.

Like most websites, our servers automatically log each visitor to the FNF Website and may collect the Browsing Information described above. We use Browsing Information for system administration, troubleshooting, fraud investigation, and to improve our websites. Browsing Information generally does not reveal anything personal about you, though if you have created a user account for an FNF Website and are logged into that account, the FNF Website may be able to link certain browsing activity to your user account.

Other Online Specifics

Cookies. When you visit an FNF Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. Information gathered using cookies helps us improve your user experience. For example, a cookie can help the website load properly or can customize the display page based on your browser type and user preferences. You can choose whether or not to accept cookies by changing your Internet browser settings. Be aware that doing so may impair or limit some functionality of the FNF Website.

Web Beacons. We use web beacons to determine when and how many times a page has been viewed. This information is used to improve our websites.

Do Not Track. Currently our FNF Websites do not respond to "Do Not Track" features enabled through your browser.

Links to Other Sites. FNF Websites may contain links to unaffiliated third-party websites. FNF is not responsible for the privacy practices or content of those websites. We recommend that you read the privacy policy of every website you visit.

Use of Personal Information

FNF uses Personal Information for three main purposes:

- To provide products and services to you or in connection with a transaction involving you.
- To improve our products and services.
- To communicate with you about our, our affiliates', and others' products and services, jointly or independently.

When Information Is Disclosed

We may disclose your Personal Information and Browsing Information in the following circumstances:

- to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to nonaffiliated service providers who provide or perform services or functions on our behalf and who agree to use the information only to provide such services or functions;
- to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to jointly market financial products or services to you;

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- to law enforcement or authorities in connection with an investigation, or in response to a subpoena or court order; or
- in the good-faith belief that such disclosure is necessary to comply with legal process or applicable laws, or to protect the rights, property, or safety of FNF, its customers, or the public.

The law does not require your prior authorization and does not allow you to restrict the disclosures described above. Additionally, we may disclose your information to third parties for whom you have given us authorization or consent to make such disclosure. We do not otherwise share your Personal Information or Browsing Information with nonaffiliated third parties, except as required or permitted by law. We do share Personal Information among affiliates (other companies owned by FNF) to directly market to you. Please see "Choices with Your Information" to learn how to restrict that sharing.

We reserve the right to transfer your Personal Information, Browsing Information, and any other information, in connection with the sale or other disposition of all or part of the FNF business and/or assets, or in the event of bankruptcy, reorganization, insolvency, receivership, or an assignment for the benefit of creditors. By submitting Personal Information and/or Browsing Information to FNF, you expressly agree and consent to the use and/or transfer of the foregoing information in connection with any of the above described proceedings.

Security of Your Information
We maintain physical, electronic, and procedural safeguards to protect your Personal Information.

Choices With Your Information
If you do not want FNF to share your information among our affiliates to directly market to you, you may send an "opt out" request by email, phone, or physical mail as directed at the end of this Privacy Notice. We do not share your Personal Information with nonaffiliates for their use to direct market to you.

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you.

For California Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties, except as permitted by California law. For additional information about your California privacy rights, please visit the "California Privacy" link on our website (https://fnf.com/pages/californiaprivacy.aspx) or call (888) 413-1748.

For Nevada Residents: You may be placed on our internal Do Not Call List by calling (888) 934-3354 or by contacting us via the information set forth at the end of this Privacy Notice. Nevada law requires that we also provide you with the following contact information: Bureau of Consumer Protection, Office of the Nevada Attorney General, 555 E. Washington St., Suite 3900, Las Vegas, NV 89101; Phone number: (702) 486-3132; email: BCPINFO@ag.state.nv.us.
For Oregon Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not disclose information about your creditworthiness to our affiliates and will not disclose your personal information, financial information, credit report, or health information to nonaffiliated third parties to market to you, other than as permitted by Vermont law, unless you authorize us to make those disclosures.

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The FNF Websites are not intended or designed to attract persons under the age of eighteen (18).We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian.

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Your Consent To This Privacy Notice; Notice Changes; Use of Comments or Feedback
By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information in accordance with this Privacy Notice. We may change this Privacy Notice at any time. The Privacy Notice's effective date will show the last date changes were made. If you provide information to us following any change of the Privacy Notice, that signifies your assent to and acceptance of the changes to the Privacy Notice. We may use comments or feedback that you submit to us in any manner without notice or compensation to you.

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Accessing and Correcting Information; Contact Us

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Fidelity National Financial, Inc.
601 Riverside Avenue
Jacksonville, Florida 32204
Attn: Chief Privacy Officer

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Order No. 36300782-363-LB-KD

Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

FNF Underwritten Title Company
FNTC - Chicago Title Company
FNTCCA –Fidelity National Title Company of California

FNF Underwriter
CTIC - Chicago Title Insurance Company

Available Discounts

CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)
Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 or 36 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge.

DISASTER LOANS (CTIC)
The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)
On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

ATTACHMENT ONE

CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13) ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and

f. environmental protection.

This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 5,000.00

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

(Except as provided in Schedule B - Part II,(t(or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
      (i) the occupancy, use, or enjoyment of the Land;
      (ii) the character, dimensions, or location of any improvement erected on the Land;
      (iii) the subdivision of land; or
      (iv) environmental protection;
      or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

APPENDIX C

HISTORICAL DATA

Jack London Blvd

Jack London Blvd

Livermore, CA 94551

Inquiry Number: 6690701.8

October 05, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/05/21

Site Name:

Jack London Blvd
Jack London Blvd
Livermore, CA 94551
EDR Inquiry # 6690701.8

Client Name:

Ardent Environmental Group
1827 Capital Street
Corona, CA 92880
Contact: Paul Roberts

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: September 06, 1998	USDA
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1968	1"=500'	Flight Date: April 27, 1968	USGS
1966	1"=500'	Flight Date: May 15, 1966	USDA
1958	1"=500'	Flight Date: August 09, 1958	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1940	1"=500'	Flight Date: June 08, 1940	USDA

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INQUIRY #: 6690701.8

YEAR: 2016

= 500'

N

EDR

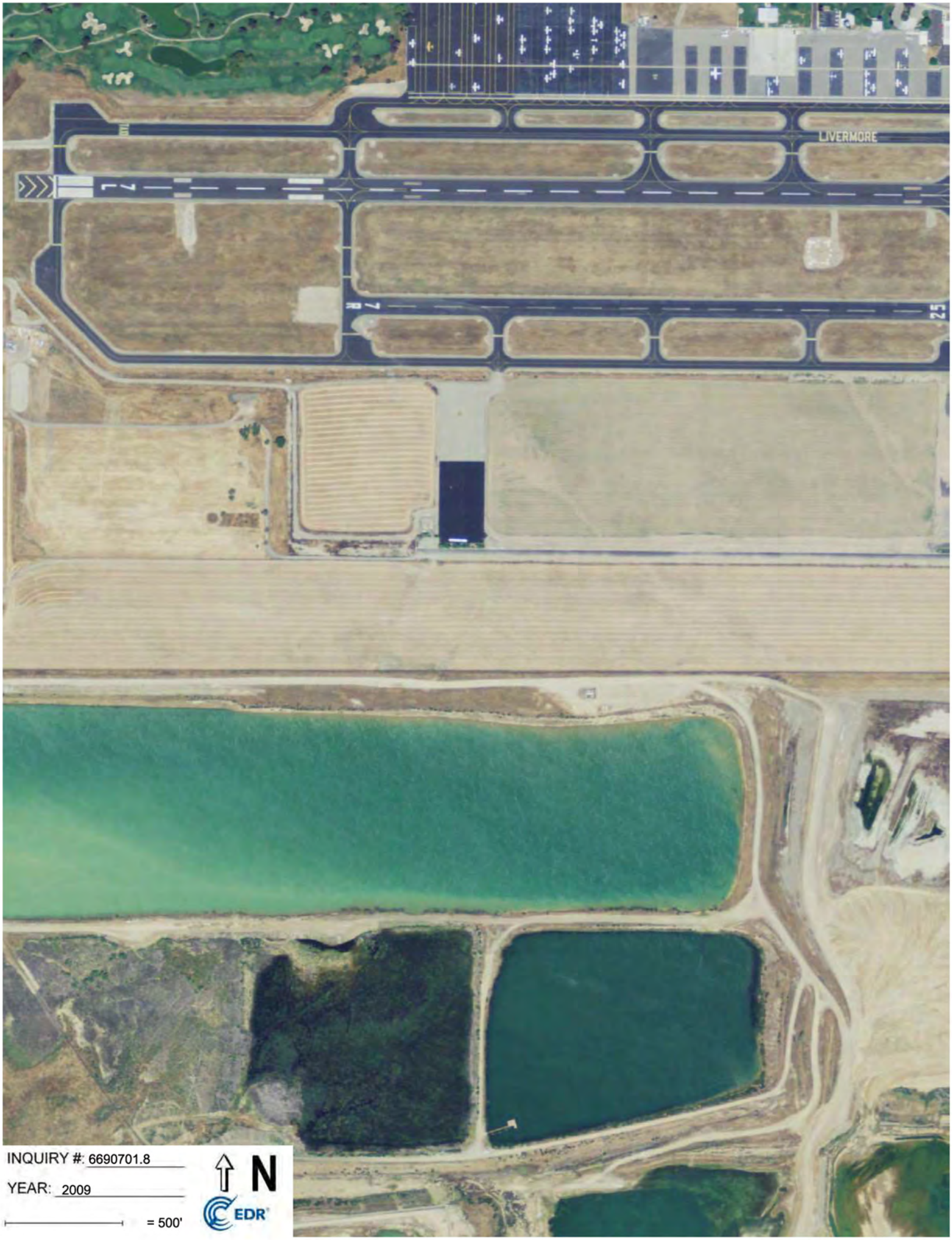
INQUIRY #: 6690701.8

YEAR: 2012

= 500'

N

EDR



INQUIRY #: 6690701.8

YEAR: 2009

= 500'

N

EDR

LIVERMORE
INQUIRY #: 6690701.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 6690701.8

YEAR: 1998

= 500'

N

EDR

INQUIRY #: 6690701.8

YEAR: 1993

= 500'

N

EDR

INQUIRY #: 6690701.8

YEAR: 1982

= 500'

N

EDR

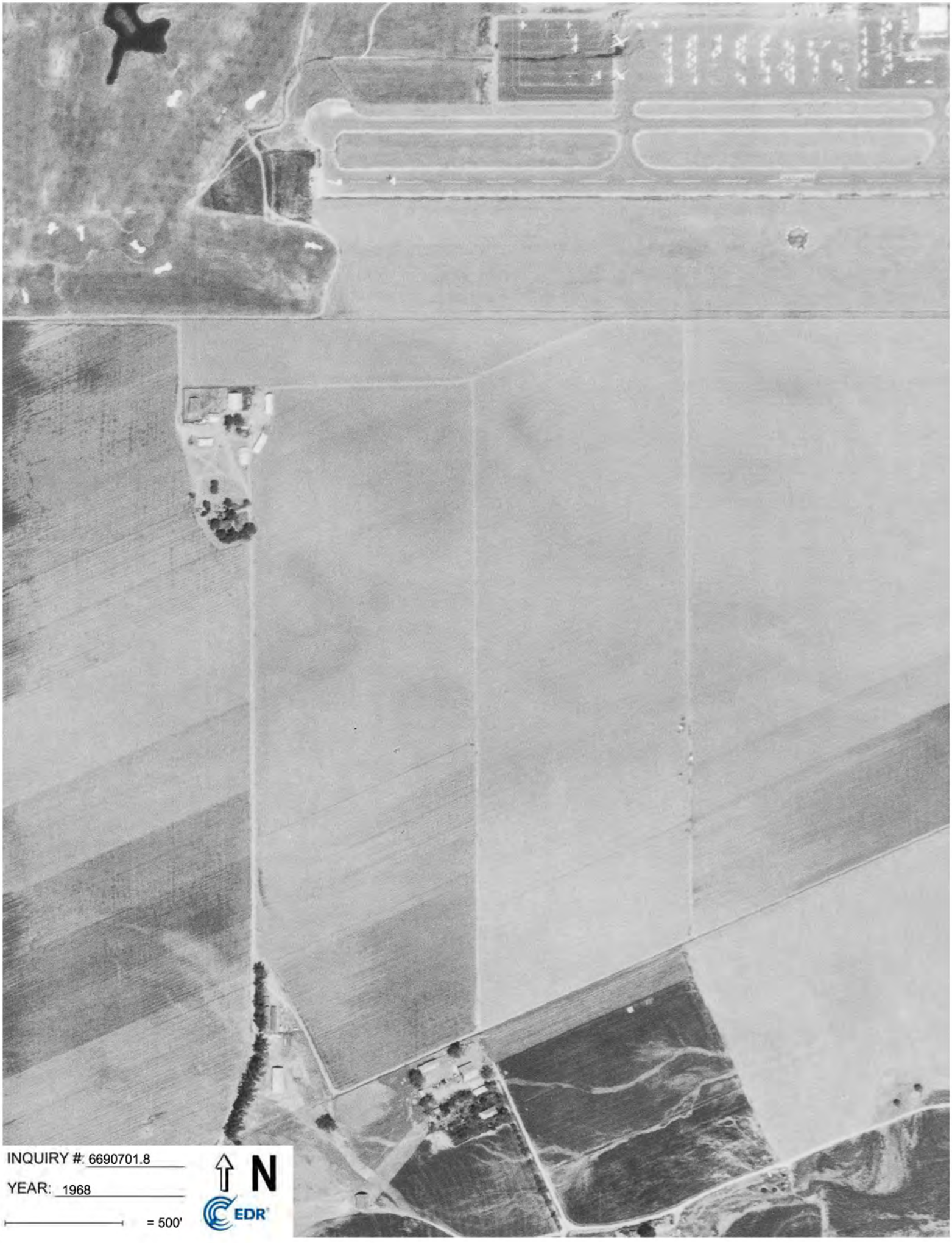
INQUIRY #: 6690701.8

YEAR: 1979

= 500'

N

EDR



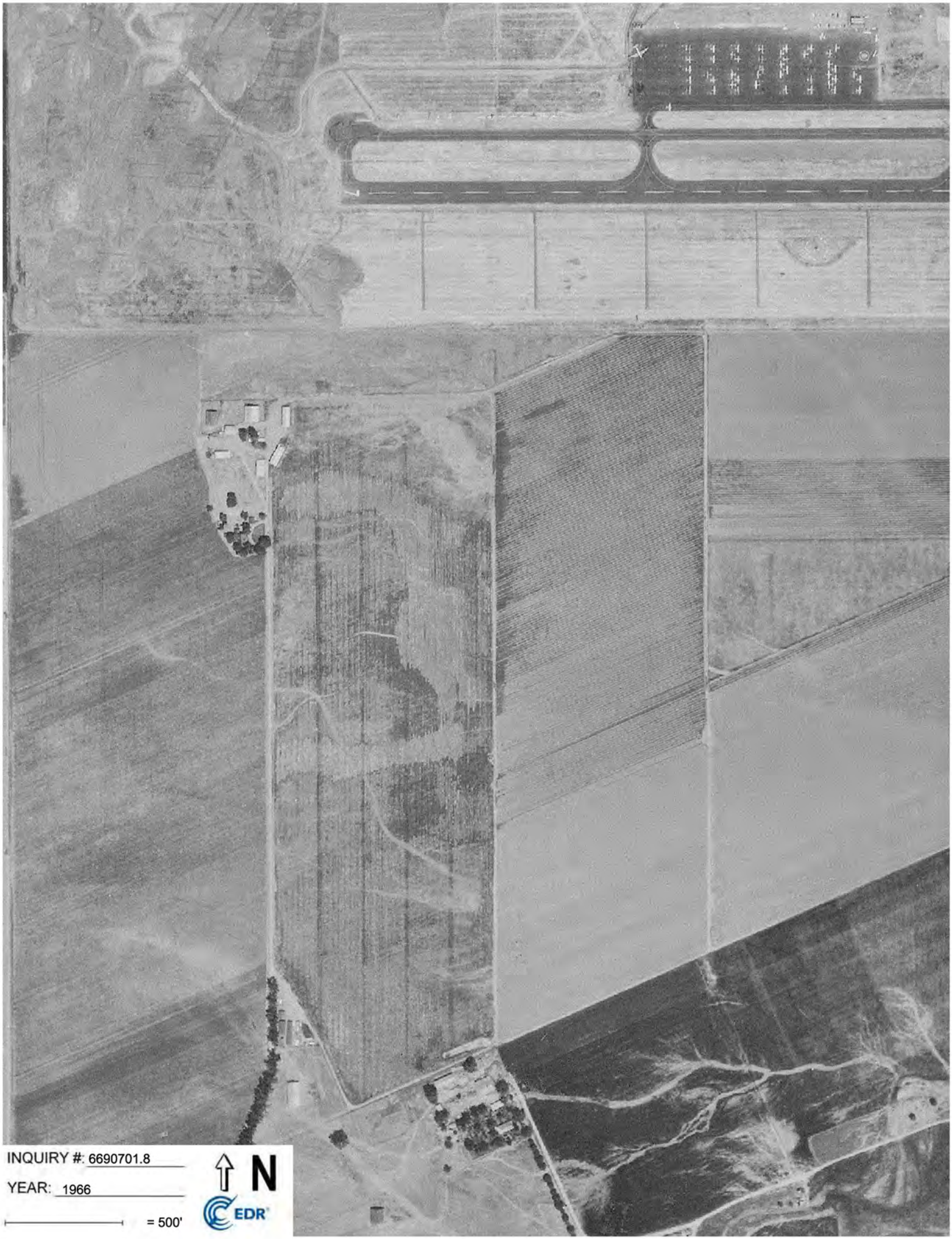
INQUIRY #: 6690701.8

YEAR: 1968

= 500'

N

EDR


INQUIRY #: 6690701.8
YEAR: 1966
= 500'
N
EDR

INQUIRY #: 6690701.8
YEAR: 1958
= 500'
N
EDR

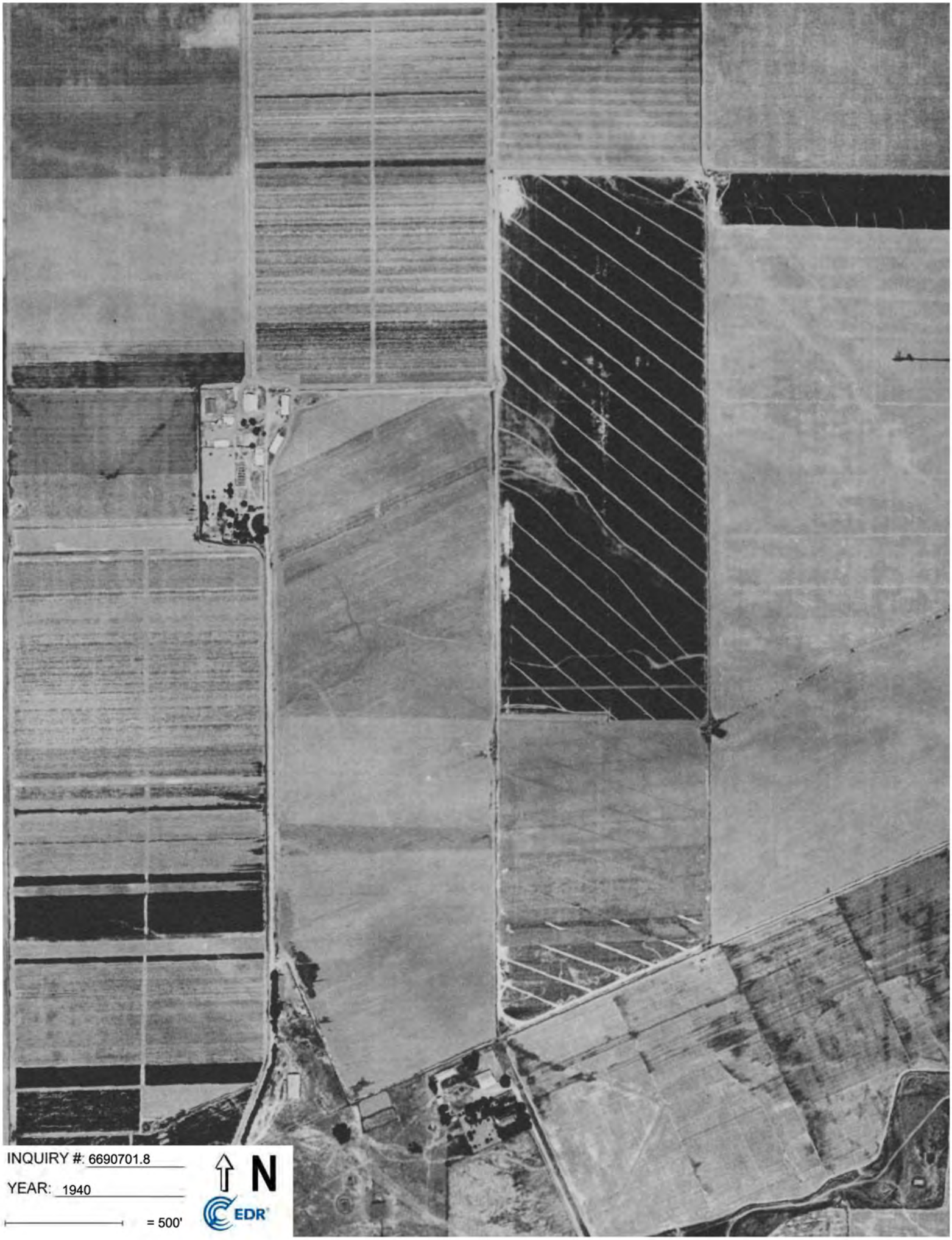
INQUIRY #: 6690701.8

YEAR: 1949

= 500'

N

EDR


INQUIRY #: 6690701.8
YEAR: 1940
= 500'
N
EDR

Jack London Blvd
Jack London Blvd
Livermore, CA 94551

Inquiry Number: 6690701.5
October 06, 2021

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 1320 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	-	-	-
2014	Cole Information Services	-	-	-	-
2009	Cole Information Services	-	-	-	-
2006	Haines Company, Inc.	-	-	-	-
2004	Cole Information Services	-	-	-	-
2002	R. L. Polk & Co.	-	X	X	-
2000	Pacific Bell	-	-	-	-
1999	Cole Information Services	-	-	-	-
1996	PACIFIC BELL DIRECTORY	-	-	-	-
1994	Cole Information Services	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	-	-	-
1991	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	-	-	-
1979	Pacific Telephone	-	-	-	-
1976	R. L. Polk & Co.	-	-	-	-
1975	Pacific Telephone	-	-	-	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1967	R. L. Polk Co.	-	-	-	-
1965	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	-	-	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co.	-	-	-	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R. L. Polk Co. of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	-	-	-
1920	R. L. Polk & Co. of California	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Jack London Blvd
Livermore, CA 94551

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

W JACK LONDON BLVD

333 W JACK LONDON BLVD

Year	Uses	Source
2002	BUILDING ANDERSONArthur R	R. L. Polk & Co.
	BRIGGSD	R. L. Polk & Co.
	BRIGGSJ	R. L. Polk & Co.
	FLOW APPLICATION	R. L. Polk & Co.
	RESEARCH FOSTER Rober	R. L. Polk & Co.
	GLOOFELTY Bill	R. L. Polk & Co.
	WEINST	R. L. Polk & Co.
	KINETICAVIATIONINC	R. L. Polk & Co.
	MAINTENANCE	R. L. Polk & Co.
	EXPRESS	R. L. Polk & Co.
	OUAYLEJohn P	R. L. Polk & Co.
	SHADETREEAVIATION	R. L. Polk & Co.
	JOHNSONDon	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
333 W JACK LONDON BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Jack London Blvd	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

Jack London Blvd

Jack London Blvd

Livermore, CA 94551

Inquiry Number: 6690701.3

October 05, 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

10/05/21

Site Name:

Jack London Blvd
Jack London Blvd
Livermore, CA 94551
EDR Inquiry # 6690701.3

Client Name:

Ardent Environmental Group
1827 Capital Street
Corona, CA 92880
Contact: Paul Roberts

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ardent Environmental Group 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 # 7E55-4D6A-8AD4

PO # NA

Project 101295001

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 #: 7E55-4D6A-8AD4

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™

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Jack London Blvd

Jack London Blvd

Livermore, CA 94551

Inquiry Number: 6690701.4

October 05, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/05/21

Site Name:	Client Name:
Jack London Blvd	Ardent Environmental Group
Jack London Blvd	1827 Capital Street
Livermore, CA 94551	Corona, CA 92880
EDR Inquiry # 6690701.4	Contact: Paul Roberts

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ardent Environmental Group were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	37.688754 37° 41' 20" North
Project:	101295001	**Longitude:**	-121.82308 -121° 49' 23" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	603767.48
		UTM Y Meters:	4171934.17
		Elevation:	383.00' above sea level

Maps Provided:

2012	1906
1980	
1973	
1968	
1961	
1953	
1947	
1941	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Livermore
2012
7.5-minute, 24000

1980 Source Sheets

Livermore
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets

Livermore
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets

Livermore
1968
7.5-minute, 24000
Aerial Photo Revised 1968

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1961 Source Sheets

Livermore
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1953 Source Sheets

Livermore
1953
7.5-minute, 24000
Aerial Photo Revised 1949

1947 Source Sheets

PLEASANTON
1947
15-minute, 50000

1941 Source Sheets

Pleasanton
1941
15-minute, 62500
Aerial Photo Revised 1937

Topo Sheet Key

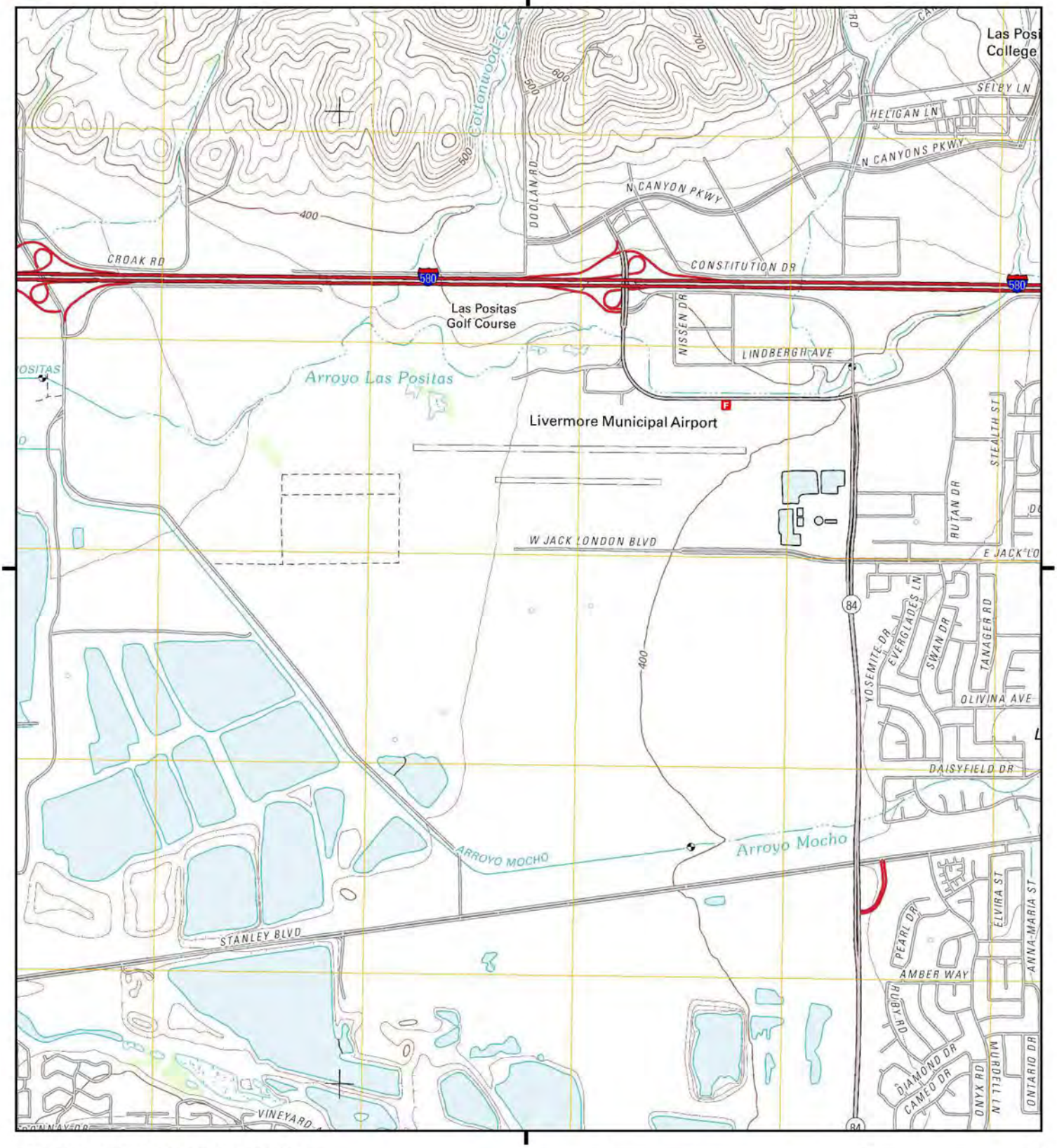
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1906 Source Sheets

Pleasanton
1906
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

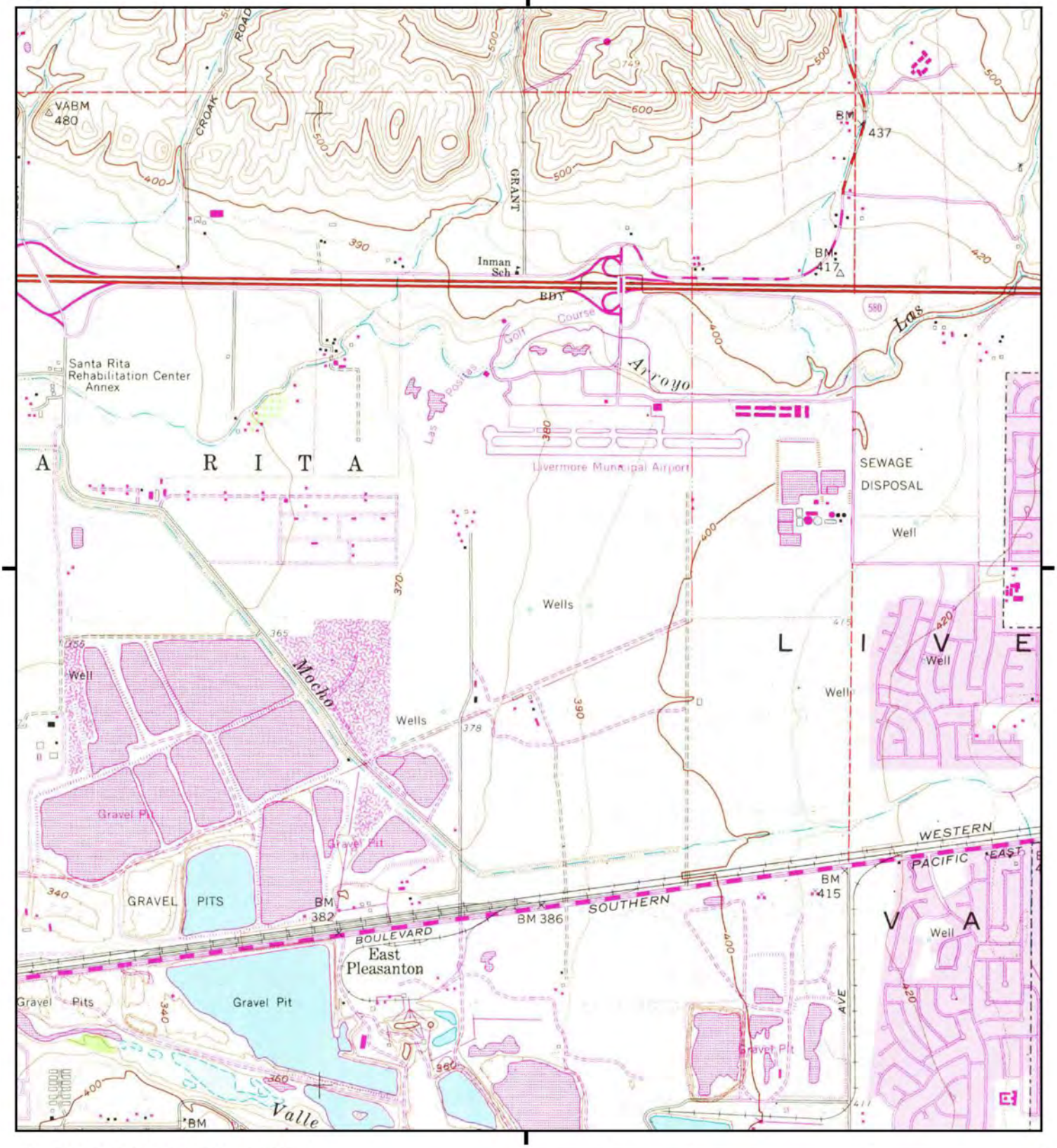
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Livermore, 2012, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

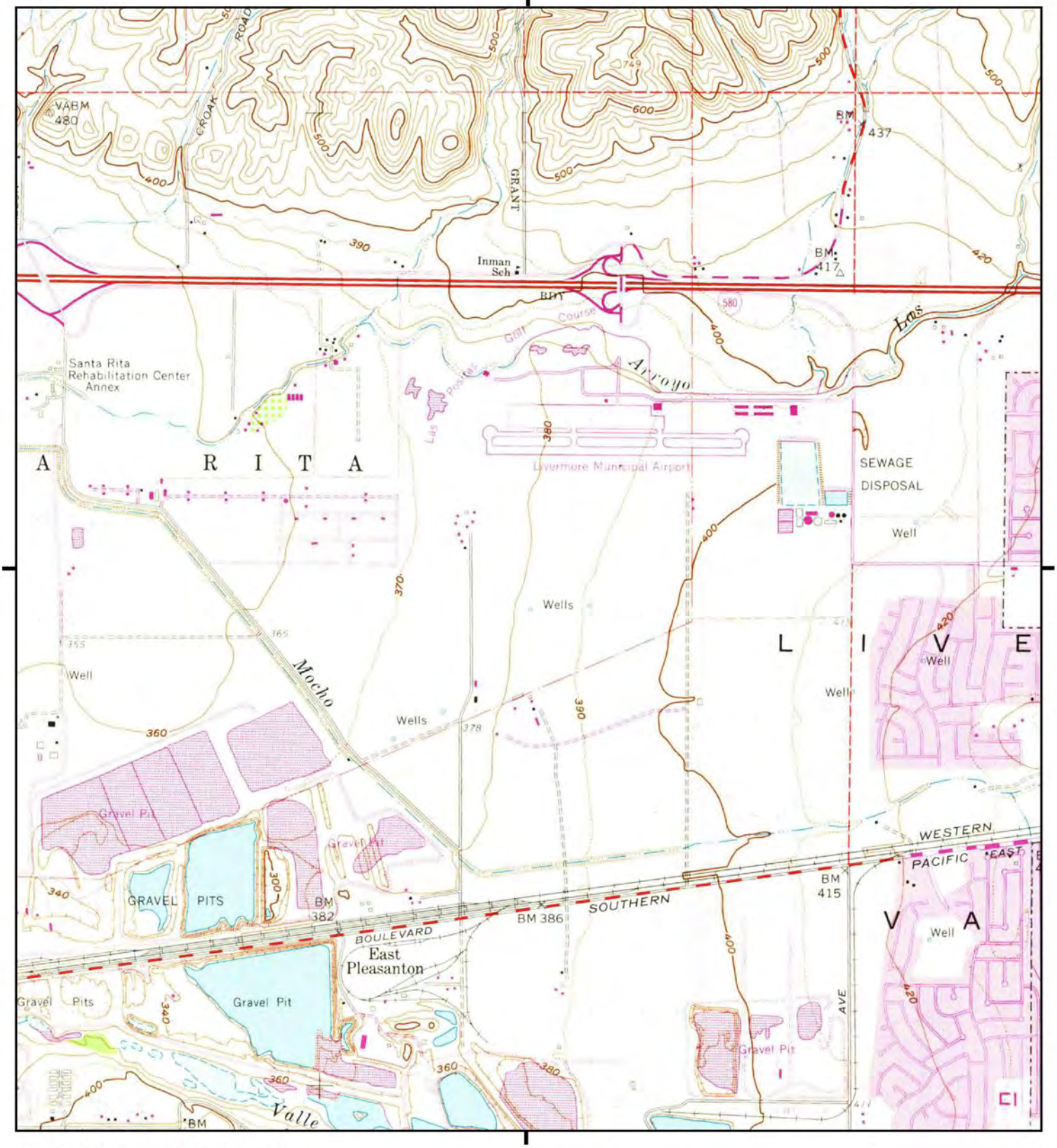
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Livermore, 1980, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

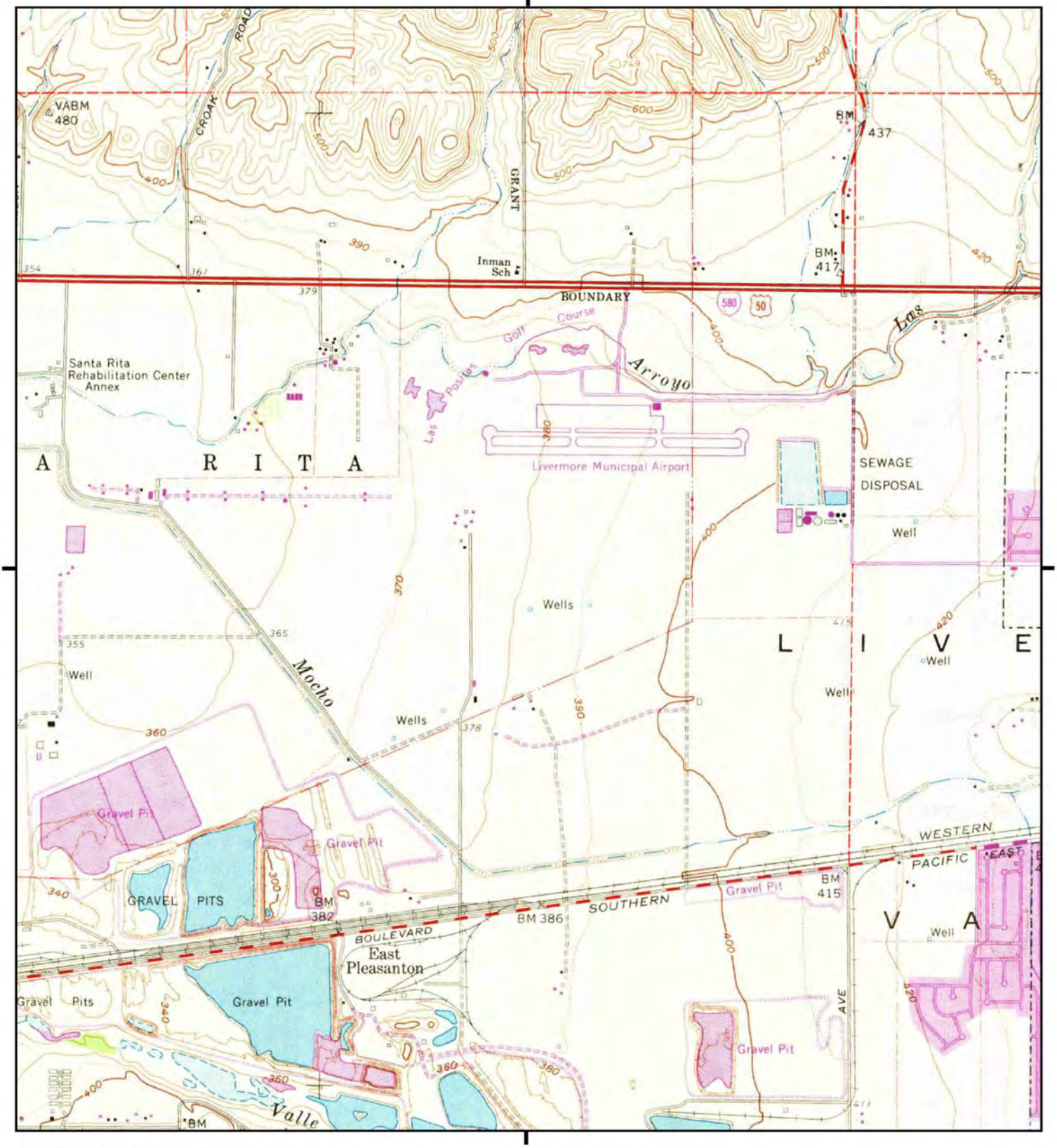
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Livermore, 1973, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

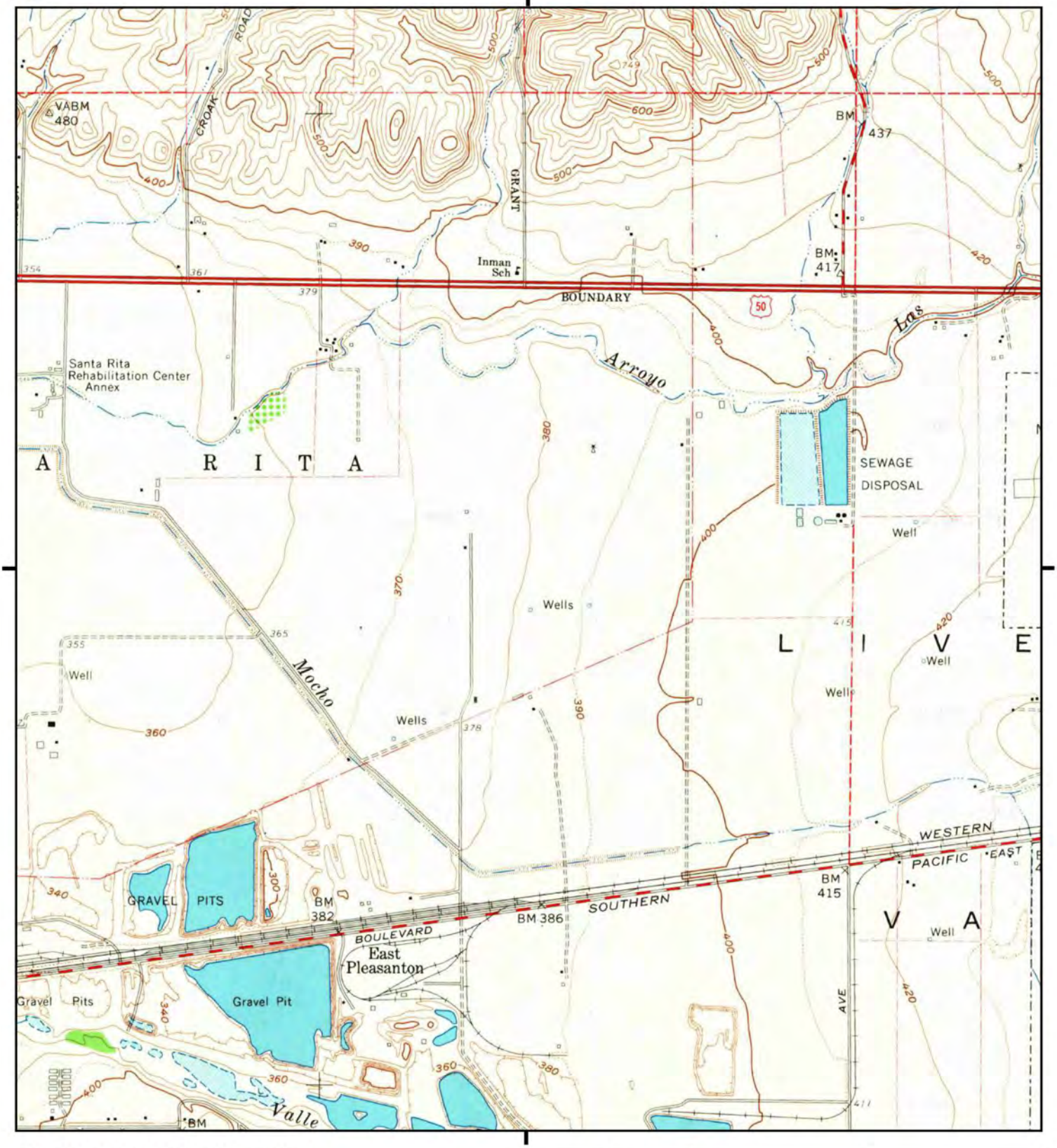
TP, Livermore, 1968, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1961



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

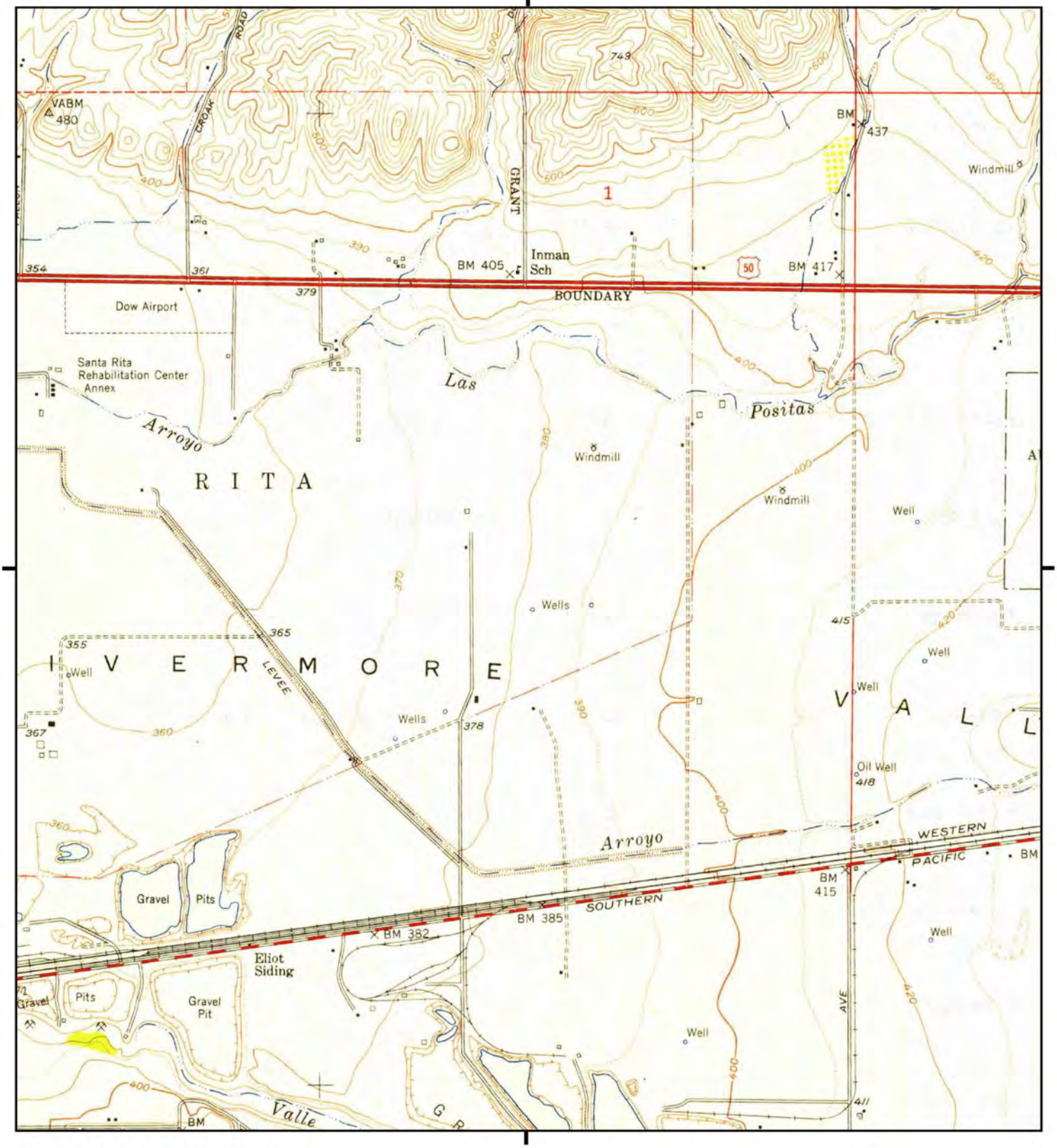
TP, Livermore, 1961, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

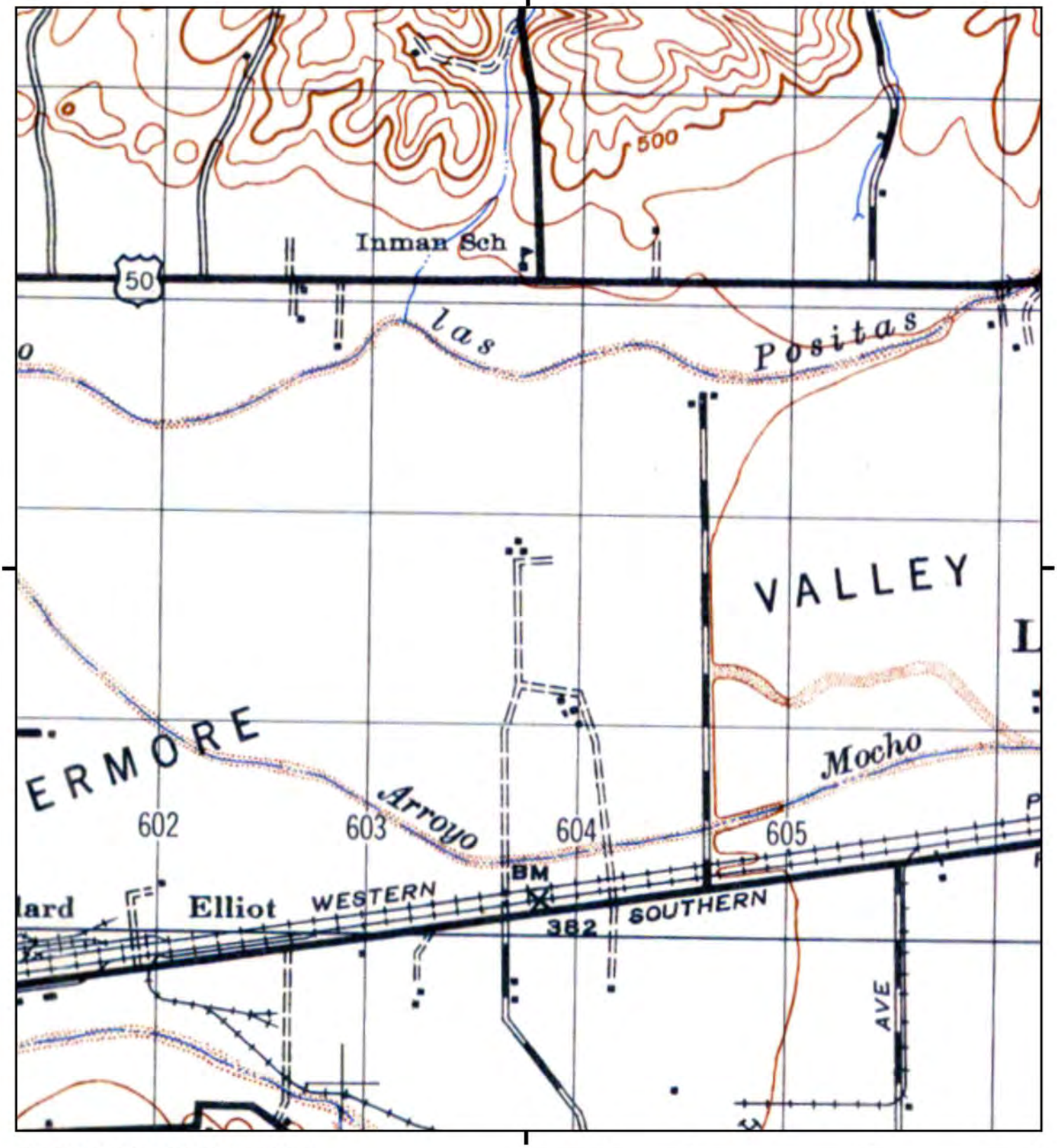
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Livermore, 1953, 7.5-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

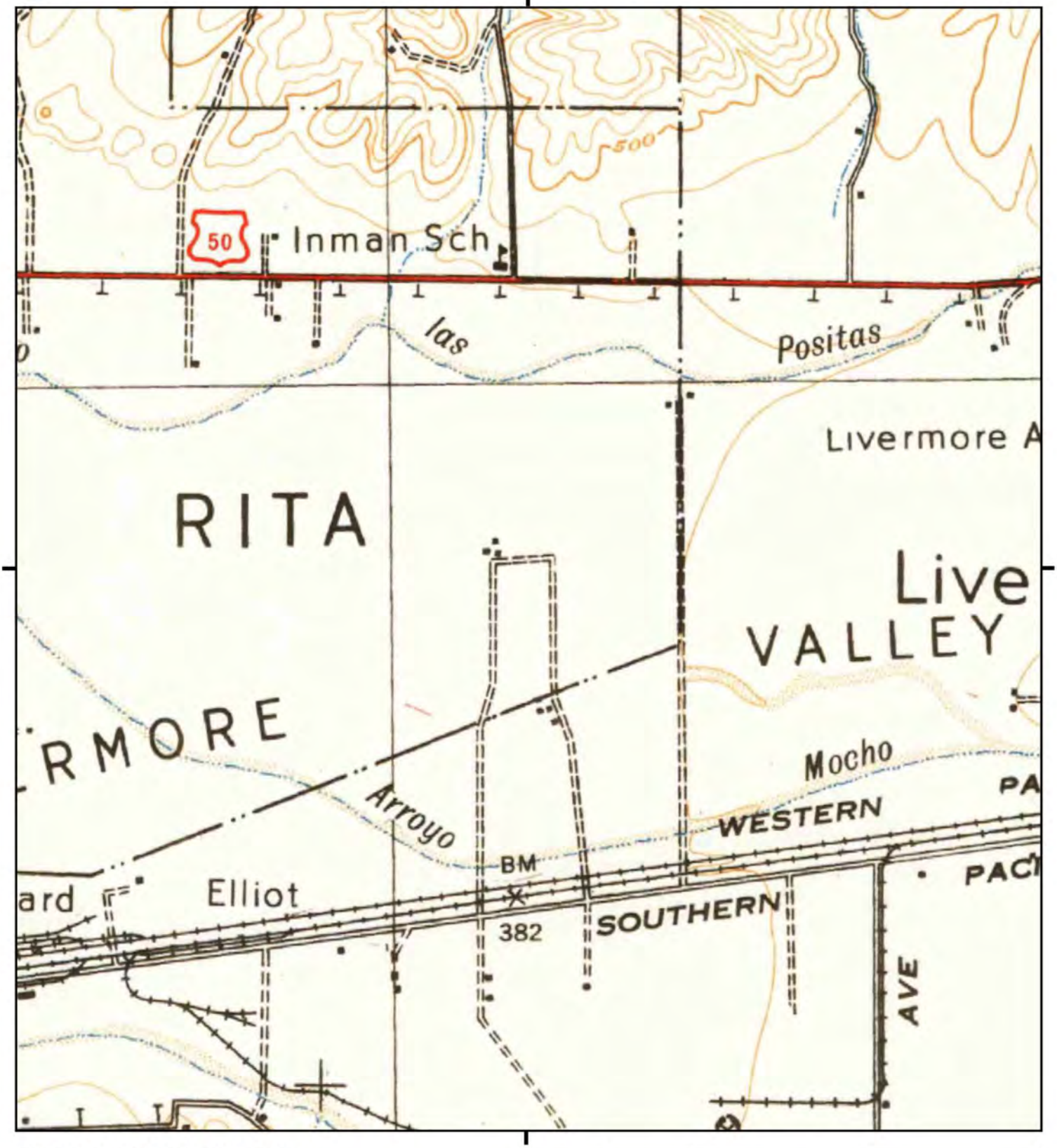
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, PLEASANTON, 1947, 15-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

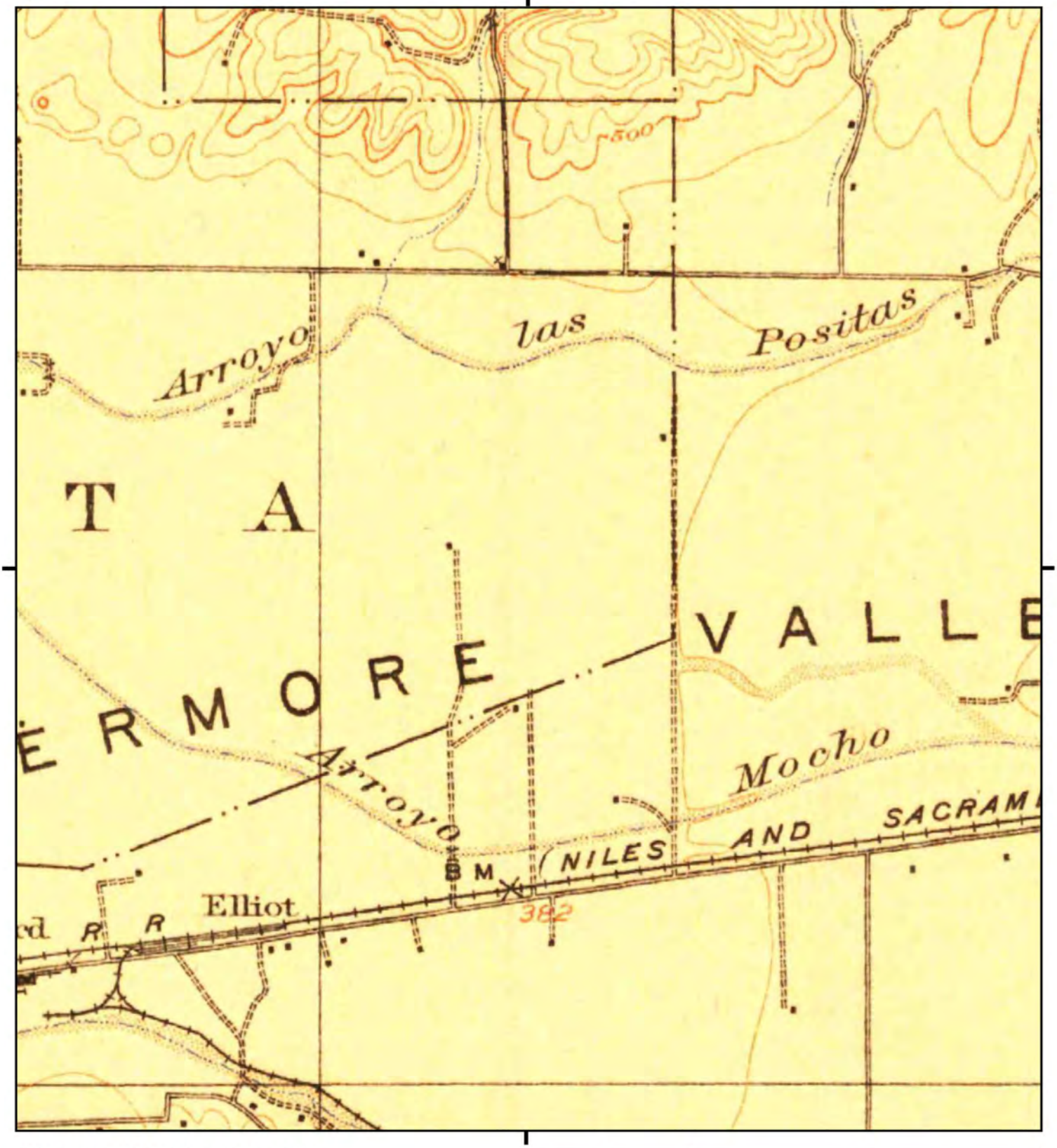
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pleasanton, 1941, 15-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pleasanton, 1906, 15-minute

SITE NAME: Jack London Blvd
ADDRESS: Jack London Blvd
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

APPENDIX D

ENVIRONMENTAL DATABASE REPORT

Jack London Blvd
Jack London Blvd
Livermore, CA 94551

Inquiry Number: 6690701.2s
October 05, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-11
Physical Setting Source Map Findings	A-13
Physical Setting Source Records Searched	PSGR-1

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (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

JACK LONDON BLVD
LIVERMORE, CA 94551

COORDINATES

Latitude (North):	37.6887540 - 37° 41' 19.51"
Longitude (West):	121.8230800 - 121° 49' 23.08"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	603770.1
UTM Y (Meters):	4171729.2
Elevation:	383 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640392 LIVERMORE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
JACK LONDON BLVD
LIVERMORE, CA 94551

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	LOT 6	625 W JACK LONDON BL	Alameda County CS, NON-CASE INFO	Higher	786, 0.149, ENE

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 Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

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

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR..... EnviroStor Database

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
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
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

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
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
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
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
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources 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

EXECUTIVE SUMMARY

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.

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

State and tribal leaking storage tank lists

Alameda County CS: 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).

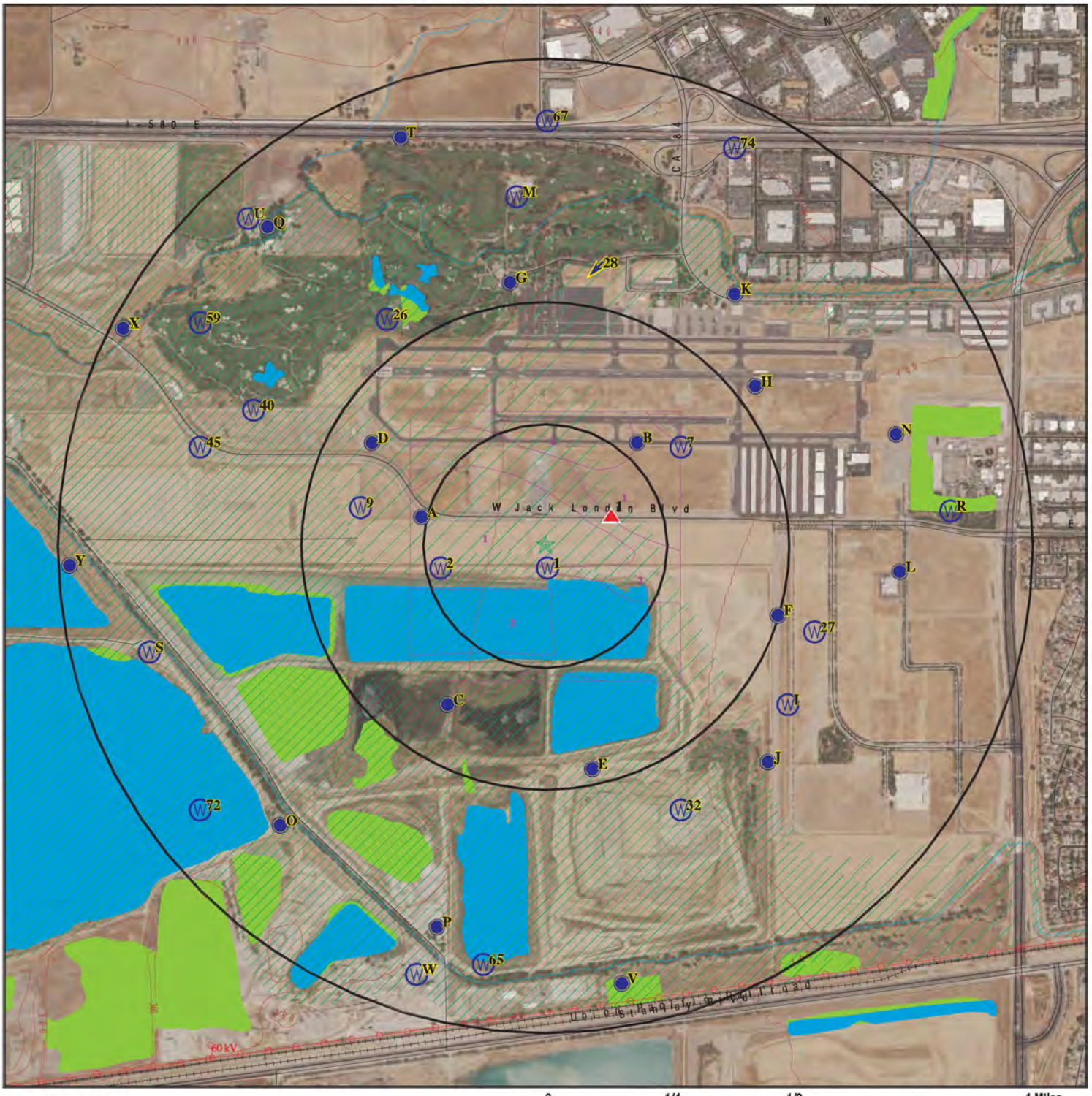
A review of the Alameda County CS list, as provided by EDR, and dated 01/09/2019 has revealed that there is 1 Alameda County CS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 6 Record Id: RO0003294	***625 W JACK LONDON BL***	***ENE 1/8 - 1/4 (0.149 mi.)***	*1*	*9*

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 6690701.2S



0 1/4 1/2 1 Miles

- 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: Jack London Blvd ADDRESS: Jack London Blvd Livermore CA 94551 LAT/LONG: 37.688754 / 121.82308	CLIENT: Ardent Environmental Group CONTACT: Paul Roberts INQUIRY #: 6690701.2s DATE: October 05, 2021 2:57 pm

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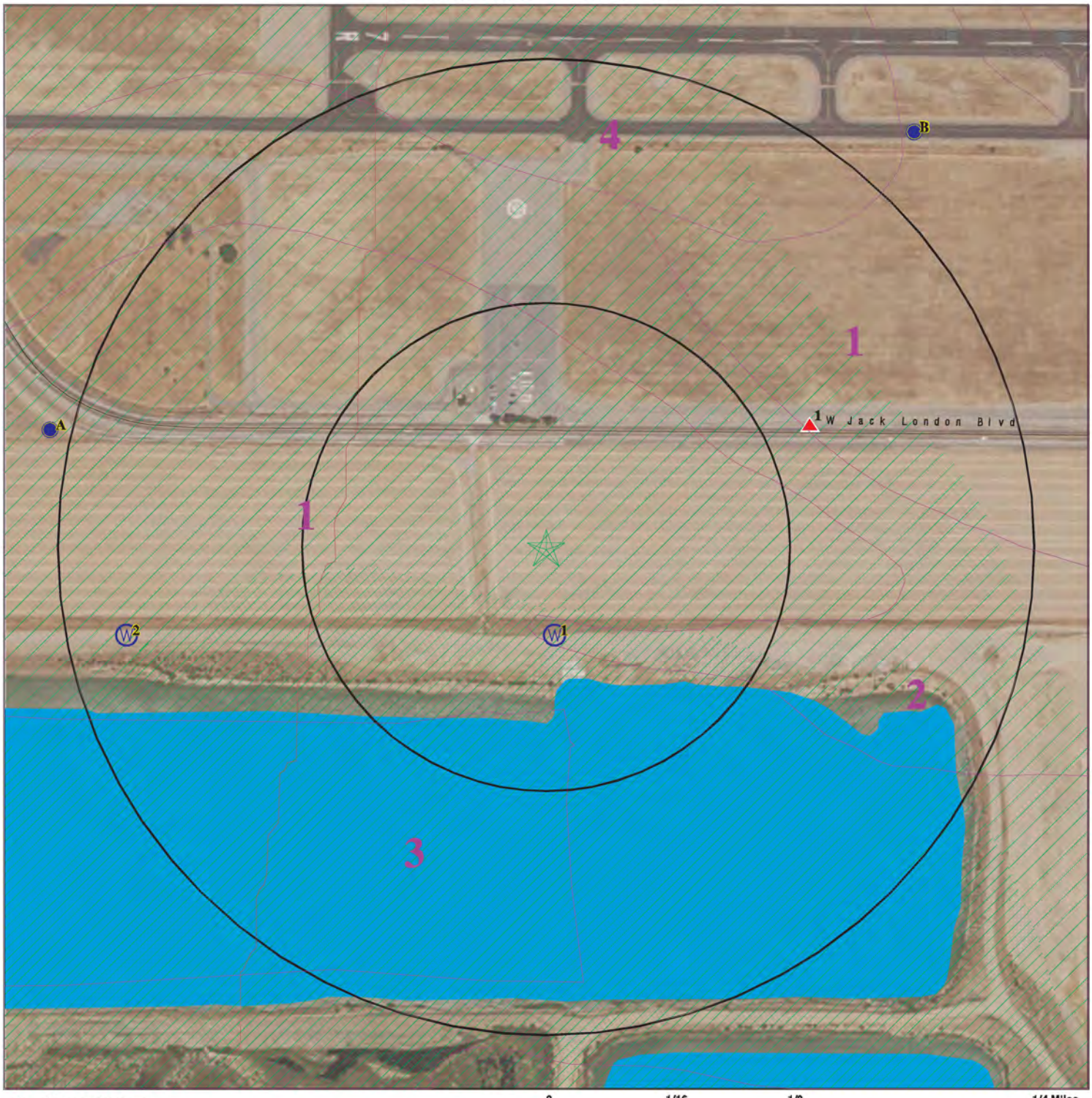
DETAIL MAP - 6690701.2S



- 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

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- 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:	Jack London Blvd	CLIENT:	Ardent Environmental Group
ADDRESS:	Jack London Blvd Livermore CA 94551	CONTACT:	Paul Roberts
LAT/LONG:	37.688754 / 121.82308	INQUIRY #:	6690701.2s
		DATE:	October 05, 2021 2:58 pm

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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	0	NR	0
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	TP		NR	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	0	NR	0
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
Alameda County CS	0.500		0	1	0	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								
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	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	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	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	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	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	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	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	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	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	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	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	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	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals -		0	0	1	0	0	0	1

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

1
ENE
1/8-1/4
0.149 mi.
786 ft.

LOT 6
625 W JACK LONDON BLVD
LIVERMORE, CA 94551

Alameda County CS **S121476286**
NON-CASE INFO **N/A**

Relative:
Higher

Actual:
389 ft.

Alameda County CS:

Name:	LOT 6
Address:	625 W JACK LONDON BLVD
City,State,Zip:	LIVERMORE, CA 94551-
Status:	12
Record Id:	RO0003294
PE:	5502
Facility Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported

NON-CASE INFO:

Name:	625 W JACK LONDON BLVD
Address:	625 W JACK LONDON BLVD
City,State,Zip:	LIVERMORE, CA 94551
Global ID:	T10000011312
Case Type:	Non-Case Information
Status:	Informational Item
Status Date:	02/15/2018
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	PK
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	Not reported
Loc Case Number:	RO0003294
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	2018-02-15 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	37.68571
Longitude:	-121.81156
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011312

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

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 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: 07/29/2021
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: 10/25/2021
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: 10/25/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2021
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

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 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: 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

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 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

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

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 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 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

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

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 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 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 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 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 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 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

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

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

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

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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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 Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

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: 09/30/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

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

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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

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

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: 04/04/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

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: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

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: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
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

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: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
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: 05/14/2021
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 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

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

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: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

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

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

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

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

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

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: 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

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: 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: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

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: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

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: 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: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

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: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 09/09/2021
Next Scheduled EDR Contact: 11/01/2021
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: 09/30/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 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: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
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
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

JACK LONDON BLVD
JACK LONDON BLVD
LIVERMORE, CA 94551

TARGET PROPERTY COORDINATES

Latitude (North):	37.688754 - 37° 41' 19.51"
Longitude (West):	121.82308 - 121° 49' 23.09"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	603770.1
UTM Y (Meters):	4171729.2
Elevation:	383 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640392 LIVERMORE, 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).

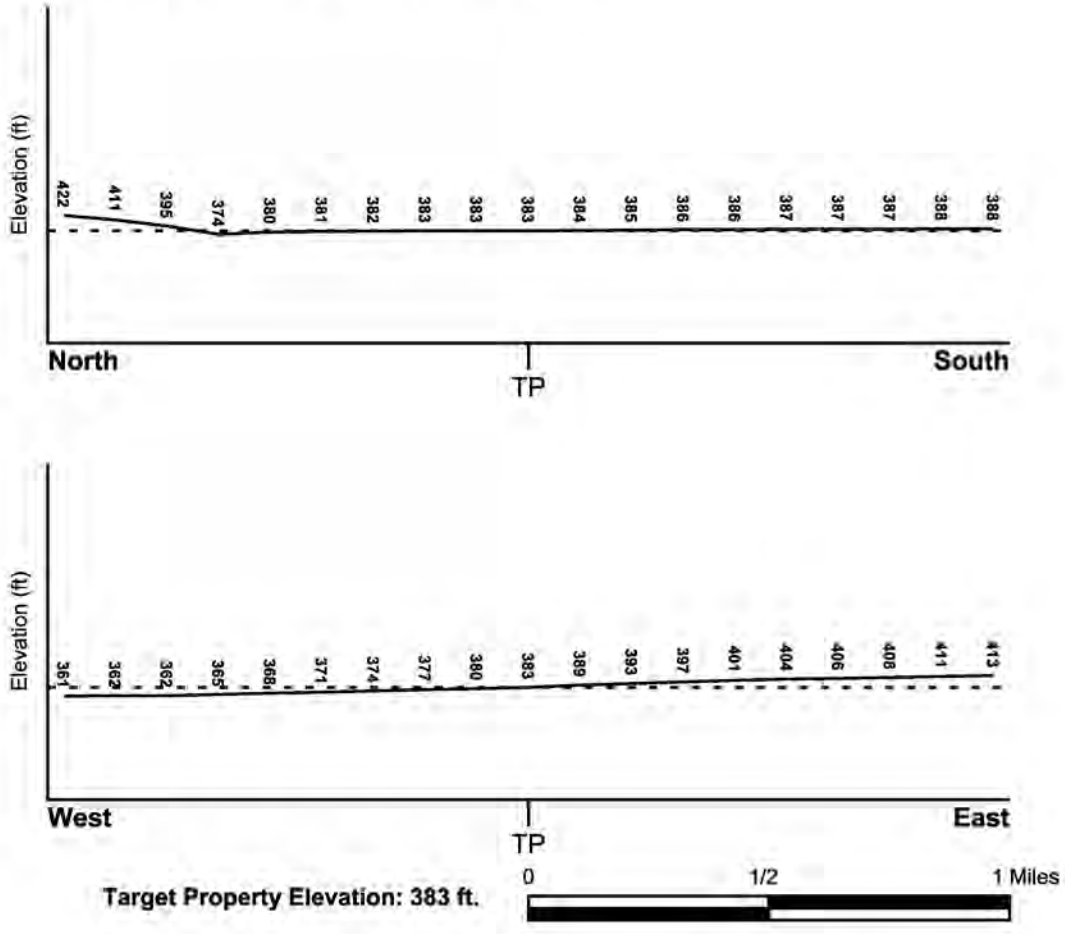
TOPOGRAPHIC INFORMATION

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 West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06001C0329G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06001C0333G	FEMA FIRM Flood data
06001C0337G	FEMA FIRM Flood data
06001C0341G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LIVERMORE	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
28	1/2 - 1 Mile North	SW
1G	1/2 - 1 Mile North	SW

For additional site information, refer to Physical Setting Source Map Findings.

* ©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

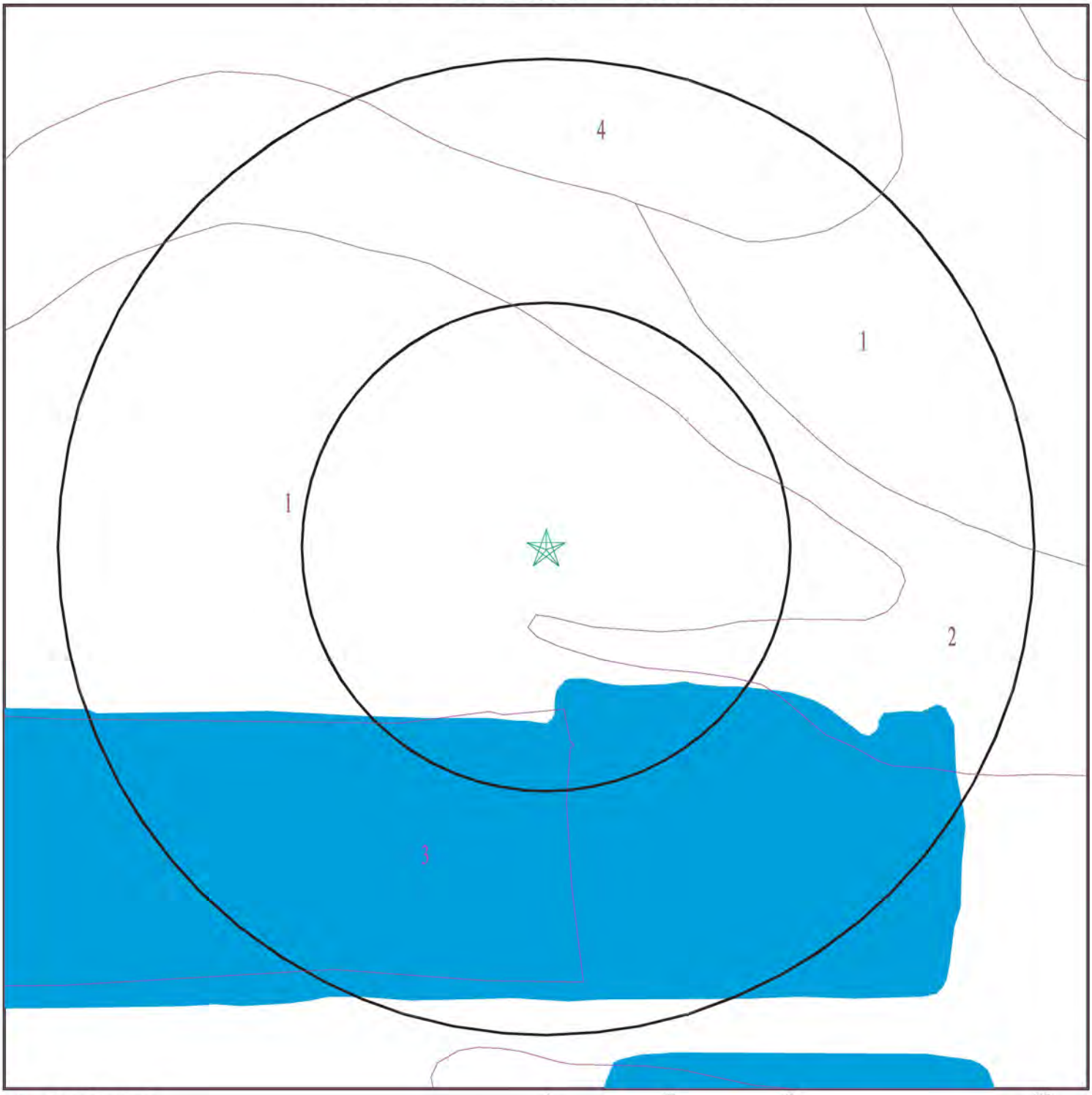
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

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 - 6690701.2s



★ Target Property
SSURGO Soil
Water

SITE NAME:	Jack London Blvd	CLIENT:	Ardent Environmental Group
ADDRESS:	Jack London Blvd Livermore CA 94551	CONTACT:	Paul Roberts
		INQUIRY #:	6690701.2s
LAT/LONG:	37.688754 / 121.82308	DATE:	October 05, 2021 2:59 pm

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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: Yolo

Soil Surface Texture: loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Yolo

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	gravelly loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	16 inches	59 inches	stratified gravelly sandy loam to gravelly loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Sycamore

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 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	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	18 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.9

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
A4	USGS40000184907	1/4 - 1/2 Mile WNW
B6	USGS40000184924	1/4 - 1/2 Mile NE
C11	USGS40000184826	1/4 - 1/2 Mile SSW
D13	USGS40000184921	1/4 - 1/2 Mile WNW
E15	USGS40000184812	1/4 - 1/2 Mile SSE
F17	USGS40000184869	1/4 - 1/2 Mile ESE
F19	USGS40000184872	1/2 - 1 Mile ESE
H23	USGS40000184946	1/2 - 1 Mile NE
G24	USGS40000184987	1/2 - 1 Mile North
J33	USGS40000184813	1/2 - 1 Mile SE
J34	USGS40000184811	1/2 - 1 Mile SE
K37	USGS40000184975	1/2 - 1 Mile NE
L41	USGS40000184884	1/2 - 1 Mile East
N47	USGS40000184927	1/2 - 1 Mile ENE
O50	USGS40000184791	1/2 - 1 Mile SW
P52	USGS40000184745	1/2 - 1 Mile SSW
Q54	USGS40000185000	1/2 - 1 Mile NW
T68	USGS40000185023	1/2 - 1 Mile NNW
V75	USGS40000184726	1/2 - 1 Mile South
Y82	USGS40000184893	1/2 - 1 Mile West
X83	USGS40000184959	1/2 - 1 Mile WNW

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	CADWR0000014746	0 - 1/8 Mile South
2	CADWR0000033114	1/8 - 1/4 Mile WSW
A3	CAUSGSN00013219	1/4 - 1/2 Mile WNW
B5	CAUSGSN00010242	1/4 - 1/2 Mile NE
7	CADWR0000024730	1/4 - 1/2 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C8	CADWR0000010461	1/4 - 1/2 Mile SW
9	CADWR9000037074	1/4 - 1/2 Mile WNW
D10	CAUSGSN00012541	1/4 - 1/2 Mile WNW
C12	CAUSGSN00011403	1/4 - 1/2 Mile SSW
D14	CADWR9000037088	1/4 - 1/2 Mile WNW
E16	CAUSGSN00010912	1/4 - 1/2 Mile SSE
F18	CAUSGSN00002876	1/4 - 1/2 Mile ESE
F20	CAUSGSN00010087	1/2 - 1 Mile ESE
G21	CAUSGSN00014499	1/2 - 1 Mile North
H22	CAUSGSN00012710	1/2 - 1 Mile NE
G25	CADWR9000037141	1/2 - 1 Mile North
26	CADWR9000037113	1/2 - 1 Mile NW
27	CADWR9000037042	1/2 - 1 Mile ESE
I29	CADWR9000037017	1/2 - 1 Mile ESE
I30	CADWR9000037018	1/2 - 1 Mile ESE
I31	CADWR9000037014	1/2 - 1 Mile SE
32	CADWR0000037881	1/2 - 1 Mile SSE
J35	CAUSGSN00003646	1/2 - 1 Mile SE
K36	CALLNL000000305	1/2 - 1 Mile NE
K38	CAUSGSN00001628	1/2 - 1 Mile NE
K39	CADWR9000037134	1/2 - 1 Mile NE
40	CADWR9000037091	1/2 - 1 Mile WNW
L42	CAUSGSN00008901	1/2 - 1 Mile East
M43	CADWR9000037151	1/2 - 1 Mile North
M44	CALLNL000000048	1/2 - 1 Mile North
45	CADWR0000022542	1/2 - 1 Mile WNW
N46	CADWR9000037084	1/2 - 1 Mile ENE
N48	CAUSGSN00018312	1/2 - 1 Mile ENE
L49	CADWR0000004031	1/2 - 1 Mile East
O51	CAUSGSN00001088	1/2 - 1 Mile SW
P53	CAUSGSN00002975	1/2 - 1 Mile SSW
R55	CALLNL000000212	1/2 - 1 Mile East
R56	CALLNL000000505	1/2 - 1 Mile East
S57	CAPFAS000000553	1/2 - 1 Mile WSW
S58	CADDW0000013325	1/2 - 1 Mile WSW
59	CADWR0000016102	1/2 - 1 Mile WNW
S60	CADWR9000037039	1/2 - 1 Mile WSW
S61	CADWR9000037038	1/2 - 1 Mile WSW
Q62	CAEDF0000064782	1/2 - 1 Mile NW
Q63	CAEDF0000085609	1/2 - 1 Mile NW
Q64	CAEDF0000134786	1/2 - 1 Mile NW
65	CADDW0000007287	1/2 - 1 Mile South
T66	CAUSGSN00002821	1/2 - 1 Mile NNW
67	CADWR9000037171	1/2 - 1 Mile North
Q69	CAEDF0000080654	1/2 - 1 Mile NW
Q70	CAEDF0000078825	1/2 - 1 Mile NW
Q71	CAEDF0000095453	1/2 - 1 Mile NW
72	CADWR0000027180	1/2 - 1 Mile SW
U73	CAEDF0000051263	1/2 - 1 Mile NW
74	CADWR9000037162	1/2 - 1 Mile NNE
V76	CAUSGSN00008181	1/2 - 1 Mile South
U77	CAEDF0000057271	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
W78	CAUSGSN00010355	1/2 - 1 Mile SSW
W79	CAUSGS000000784	1/2 - 1 Mile SSW
T80	CADWR9000037170	1/2 - 1 Mile NNW
X81	CAUSGSN00004226	1/2 - 1 Mile WNW
X84	CADWR9000037111	1/2 - 1 Mile WNW
Y85	CADWR0000025585	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 6690701.2s

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Jack London Blvd	CLIENT:	Ardent Environmental Group
ADDRESS:	Jack London Blvd Livermore CA 94551	CONTACT:	Paul Roberts
		INQUIRY #:	6690701.2s
LAT/LONG:	37.688754 / 121.82308	DATE:	October 05, 2021 2:59 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **0 - 1/8 Mile** **Higher**	**CA WELLS**	**CADWR0000014746**
2 **WSW** **1/8 - 1/4 Mile** **Lower**	**CA WELLS**	**CADWR0000033114**
A3 **WNW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAUSGSN00013219**
A4 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000184907**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11H001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	194908	Well Depth:	303
Well Depth Units:	ft	Well Hole Depth:	303
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	35	Level reading date:	1980-10-09
Feet below surface:	86.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-04-16	Feet below surface:	76.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	97.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	85.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-17	Feet below surface:	110.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	126.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-18	Feet below surface:	145.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-03-15	Feet below surface:	118.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-27	Feet below surface:	129.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-10	Feet below surface:	98.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-22	Feet below surface:	110.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-12	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	122.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-26	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	128.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	108.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-25	Feet below surface:	154.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-14	Feet below surface:	115.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	144.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-05	Feet below surface:	120.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-02	Feet below surface:	138.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-31	Feet below surface:	123.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-21	Feet below surface:	141.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-25	Feet below surface:	117.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-30	Feet below surface:	133.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-02	Feet below surface:	110.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-26	Feet below surface:	124.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-25	Feet below surface:	119.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-09-30	Feet below surface:	125.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-24	Feet below surface:	106.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-08	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-24	Feet below surface:	142.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-23	Feet below surface:	109.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-16	Feet below surface:	123.0
Feet to sea level:	Not Reported	Note:	Not Reported

B5
NE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00010242**

B6
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000184924**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12D002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751107	Well Depth:	46
Well Depth Units:	ft	Well Hole Depth:	46
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	77	Level reading date:	1981-12-21
Feet below surface:	37.6	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-18	Feet below surface:	37.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-04	Feet below surface:	36.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-30	Feet below surface:	36.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	36.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-06-02	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-13	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-05	Feet below surface:	37.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-12	Feet below surface:	35.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	32.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-02	Feet below surface:	32.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-15	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	30.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-06	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	31.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	34.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	35.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	35.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	35.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	35.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	35.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	36.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	36.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-07-31	Feet below surface:	37.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	37.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-04	Feet below surface:	37.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-21	Feet below surface:	37.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-07	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-04	Feet below surface:	38.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	37.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	37.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	37.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-30	Feet below surface:	37.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-23	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-12	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	37.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	37.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-13	Feet below surface:	37.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	37.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	37.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	37.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-01-23	Feet below surface:	37.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	38.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	38.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-05	Feet below surface:	37.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	36.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-04	Feet below surface:	35.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	35.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-01	Feet below surface:	34.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-15	Feet below surface:	35.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-05	Feet below surface:	38.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-20	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	36.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	37.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	37.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	36.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	36.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	34.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	33.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-15	Feet below surface:	33.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-09-03	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-10	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-15	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	35.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	38.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	38.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	37.6
Feet to sea level:	Not Reported	Note:	Not Reported

7
NE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000024730**

C8
SW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000010461**

9
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000037074**

State Well #:	03S01E11G001M	Station ID:	49176
Well Name:	3S/1E 11G 1	Basin Name:	Livermore Valley
Well Use:	Observation		
Well Type:	Part of a nested/multi-completion well		
Well Depth:	120	Well Completion Rpt #:	511699

D10
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00012541**

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	USGS40000184826

C11
SSW
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11J001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19490101	Well Depth:	207
Well Depth Units:	ft	Well Hole Depth:	207
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	176	Level reading date:	1980-03-24
Feet below surface:	83.3	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-03-17	Feet below surface:	83.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	83.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-03	Feet below surface:	83.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	84.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-18	Feet below surface:	85.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-08	Feet below surface:	85.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	85.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	85.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	86.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	86.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-20	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-19	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-11-27	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-23	Feet below surface:	90.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	95.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	102.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-18	Feet below surface:	99.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-26	Feet below surface:	94.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-31	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-18	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	86.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	89.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	89.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	90.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-08	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	91.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	91.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	92.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-18	Feet below surface:	92.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-02	Feet below surface:	94.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-08	Feet below surface:	97.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-20	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-06	Feet below surface:	101.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-10-05	Feet below surface:	120.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	106.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-18	Feet below surface:	110.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-02	Feet below surface:	109.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-05	Feet below surface:	107.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-31	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	104.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-03	Feet below surface:	100.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-04	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	103.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-06	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-28	Feet below surface:	105.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-31	Feet below surface:	109.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-04	Feet below surface:	112.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	119.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-23	Feet below surface:	117.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-15	Feet below surface:	117.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-01	Feet below surface:	119.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-18	Feet below surface:	127.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-03	Feet below surface:	130.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-20	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-06	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	129.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-18	Feet below surface:	124.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-03	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-21	Feet below surface:	127.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-01	Feet below surface:	117.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-13	Feet below surface:	123.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-31	Feet below surface:	113.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-17	Feet below surface:	114.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-29	Feet below surface:	124.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-18	Feet below surface:	111.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-07	Feet below surface:	109.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-04	Feet below surface:	108.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	110.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-03	Feet below surface:	118.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-28	Feet below surface:	118.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	107.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-03	Feet below surface:	106.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-31	Feet below surface:	106.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-17	Feet below surface:	107.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-07	Feet below surface:	108.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-12-15	Feet below surface:	109.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-08	Feet below surface:	110.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-01	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-15	Feet below surface:	111.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-08	Feet below surface:	111.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-04	Feet below surface:	112.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-12	Feet below surface:	111.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-01	Feet below surface:	113.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-13	Feet below surface:	121.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-27	Feet below surface:	122.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-20	Feet below surface:	113.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-09	Feet below surface:	124.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-05	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-09	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	124.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-03	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-22	Feet below surface:	108.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-07	Feet below surface:	103.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-03	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-19	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-02-02	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-21	Feet below surface:	96.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-17	Feet below surface:	101.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-03	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-03	Feet below surface:	94.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-19	Feet below surface:	97.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	98.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-24	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-08	Feet below surface:	102.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-24	Feet below surface:	116.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-16	Feet below surface:	105.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	113.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-31	Feet below surface:	110.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	99.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-02	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-18	Feet below surface:	97.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-04	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-22	Feet below surface:	89.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-08	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-04-23	Feet below surface:	86.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-09	Feet below surface:	88.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	91.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-26	Feet below surface:	93.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	94.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-29	Feet below surface:	96.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	98.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-02	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-26	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	109.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-26	Feet below surface:	99.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	123.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	111.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-25	Feet below surface:	138.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-14	Feet below surface:	115.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	150.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-05	Feet below surface:	124.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-02	Feet below surface:	128.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-03	Feet below surface:	134.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-21	Feet below surface:	134.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-04-25	Feet below surface:	110.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-30	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-01	Feet below surface:	117.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-26	Feet below surface:	119.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-25	Feet below surface:	118.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-30	Feet below surface:	122.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-24	Feet below surface:	112.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-08	Feet below surface:	120.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-23	Feet below surface:	107.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-29	Feet below surface:	130.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-16	Feet below surface:	109.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	133.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-21	Feet below surface:	128.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	138.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-03	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-05	Feet below surface:	131.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-24	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-18	Feet below surface:	114.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-16	Feet below surface:	91.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-06	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-31	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-10-23	Feet below surface:	86.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-21	Feet below surface:	81.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-17	Feet below surface:	113.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-25	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-16	Feet below surface:	102.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-05	Feet below surface:	85.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-03	Feet below surface:	125.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-26	Feet below surface:	81.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-10	Feet below surface:	84.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-21	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-03	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-04	Feet below surface:	106.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-01	Feet below surface:	89.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-04	Feet below surface:	85.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-29	Feet below surface:	83.6
Feet to sea level:	Not Reported	Note:	Not Reported

C12
SSW
1/4 - 1/2 Mile
Lower

CA WELLS **CAUSGSN00011403**

D13
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000184921**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11B001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751106	Well Depth:	43
Well Depth Units:	ft	Well Hole Depth:	43
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	108	Level reading date:	1981-10-01
Feet below surface:	27.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-09-08	Feet below surface:	27.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	27.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-02	Feet below surface:	29.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-20	Feet below surface:	29.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	31.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-13	Feet below surface:	31.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	30.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-05	Feet below surface:	30.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-26	Feet below surface:	30.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-28	Feet below surface:	31.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	32.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	31.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-03	Feet below surface:	31.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-11-12	Feet below surface:	30.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-20	Feet below surface:	28.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-06	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-01	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-22	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-09	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-15	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-12	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-16	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-09	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-26	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-12	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-06	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-27	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-17	Feet below surface:	25.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	24.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-03	Feet below surface:	24.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-02-18	Feet below surface:	24.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	25.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-07	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-24	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-10	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-13	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-29	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-15	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-01	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	29.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-06-18	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-06	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-04	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-21	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-07	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-04	Feet below surface:	30.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	30.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	30.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-06	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	29.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-30	Feet below surface:	29.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-23	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-12	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	27.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-23	Feet below surface:	27.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-01-16	Feet below surface:	23.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	31.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-04	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-04	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-01	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-10	Feet below surface:	23.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-05	Feet below surface:	30.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-20	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	27.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-19	Feet below surface:	26.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	30.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	29.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	29.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-03	Feet below surface:	26.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-08-10	Feet below surface:	26.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-11	Feet below surface:	25.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	30.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	30.7
Feet to sea level:	Not Reported	Note:	Not Reported

D14
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000037088**

State Well #:	03S01E11B001M	Station ID:	46392
Well Name:	3S/1E 11B 1	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	43	Well Completion Rpt #:	253974

E15
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000184812**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12N001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19500914	Well Depth:	304
Well Depth Units:	ft	Well Hole Depth:	304
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	12	Level reading date:	1980-10-09
Feet below surface:	85.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-06-06	Feet below surface:	86.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	85.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-01-29	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	93.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	85.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	132.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-03	Feet below surface:	114.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	132.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-18	Feet below surface:	114.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	108.5
Feet to sea level:	Not Reported	Note:	Not Reported

E16
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00010912**

F17
ESE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000184869**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12F001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19491001	Well Depth:	240
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	174	Level reading date:	1981-11-18
Feet below surface:	100.9	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-09-29	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-19	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-08-10	Feet below surface:	103.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	102.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	100.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	116.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	97.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	94.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	92.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-01-19	Feet below surface:	93.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	92.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	92.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	92.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	92.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-25	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	93.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-11	Feet below surface:	95.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	93.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-27	Feet below surface:	93.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	95.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	93.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-30	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	90.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-02-25	Feet below surface:	93.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-08	Feet below surface:	93.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	94.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-27	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-23	Feet below surface:	99.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	121.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	109.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-18	Feet below surface:	118.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-26	Feet below surface:	106.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-31	Feet below surface:	97.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	98.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-08	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	102.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-02	Feet below surface:	106.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-08	Feet below surface:	108.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-20	Feet below surface:	111.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-11-06	Feet below surface:	114.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	121.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	119.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-02	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-05	Feet below surface:	123.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-31	Feet below surface:	122.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-03	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-04	Feet below surface:	119.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	122.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-06	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-28	Feet below surface:	126.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-31	Feet below surface:	132.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-04	Feet below surface:	136.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	143.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-23	Feet below surface:	142.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-15	Feet below surface:	142.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-01	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-18	Feet below surface:	148.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-03	Feet below surface:	156.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-20	Feet below surface:	149.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-06	Feet below surface:	155.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-08-22	Feet below surface:	148.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-03	Feet below surface:	145.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-21	Feet below surface:	146.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-01	Feet below surface:	149.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-13	Feet below surface:	138.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-31	Feet below surface:	136.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-17	Feet below surface:	142.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-09	Feet below surface:	160.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-29	Feet below surface:	144.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-18	Feet below surface:	148.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-08	Feet below surface:	129.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-04	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-31	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	126.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-28	Feet below surface:	124.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-03	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-31	Feet below surface:	125.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-17	Feet below surface:	126.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-07	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-15	Feet below surface:	128.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-12-08	Feet below surface:	129.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-01	Feet below surface:	129.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-15	Feet below surface:	130.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-08	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-04	Feet below surface:	131.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-13	Feet below surface:	133.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-01	Feet below surface:	135.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-13	Feet below surface:	140.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-07	Feet below surface:	133.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-27	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-20	Feet below surface:	137.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-09	Feet below surface:	138.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-05	Feet below surface:	139.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-21	Feet below surface:	131.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-09	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-15	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-19	Feet below surface:	127.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-03	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-22	Feet below surface:	117.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-17	Feet below surface:	111.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-03	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-02-19	Feet below surface:	114.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-03	Feet below surface:	112.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-25	Feet below surface:	113.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-07	Feet below surface:	114.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-03	Feet below surface:	127.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-17	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-03	Feet below surface:	113.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-19	Feet below surface:	115.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	116.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	119.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-08	Feet below surface:	123.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-24	Feet below surface:	142.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-16	Feet below surface:	142.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	142.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	123.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-31	Feet below surface:	137.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	119.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-02	Feet below surface:	113.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-18	Feet below surface:	112.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-04	Feet below surface:	120.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-22	Feet below surface:	99.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-05-08	Feet below surface:	97.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-23	Feet below surface:	98.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-09	Feet below surface:	101.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-26	Feet below surface:	108.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-29	Feet below surface:	114.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-02	Feet below surface:	117.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-26	Feet below surface:	122.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-31	Feet below surface:	140.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-04	Feet below surface:	135.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	111.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	142.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	164.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-14	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	161.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-30	Feet below surface:	167.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-02	Feet below surface:	170.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1970-04-06	Feet below surface:	158.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-21	Feet below surface:	177.5
Feet to sea level:	Not Reported	Note:	Not Reported

F18
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAUSGSN00002876**

F19
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184872**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12G001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751113	Well Depth:	73
Well Depth Units:	ft	Well Hole Depth:	73
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	142	Level reading date:	1981-12-21
Feet below surface:	62.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-18	Feet below surface:	62.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	62.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-26	Feet below surface:	60.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-05-26	Feet below surface:	58.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	56.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	55.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-29	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-06	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-01-12	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-25	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	58.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-11	Feet below surface:	58.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	57.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-02	Feet below surface:	56.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	55.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	55.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-15	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-06	Feet below surface:	54.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-07-21	Feet below surface:	54.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	54.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	54.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	54.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	55.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-07	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	56.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-20	Feet below surface:	57.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	58.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	59.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	60.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	61.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	62.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	62.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-11-19	Feet below surface:	61.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	61.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	60.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	58.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	58.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	58.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	58.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-01	Feet below surface:	61.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-02	Feet below surface:	60.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-11	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-29	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-14	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-05-04	Feet below surface:	61.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	61.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	67.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	62.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	62.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-19	Feet below surface:	62.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-08	Feet below surface:	63.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	63.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	63.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	63.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	63.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	63.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	64.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-07	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-04	Feet below surface:	63.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-07	Feet below surface:	64.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	64.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-02	Feet below surface:	64.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-02-15	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-08	Feet below surface:	64.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	68.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-21	Feet below surface:	68.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	68.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-23	Feet below surface:	68.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-15	Feet below surface:	68.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-12	Feet below surface:	67.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	67.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	66.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-01	Feet below surface:	66.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	66.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-07	Feet below surface:	66.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	64.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-15	Feet below surface:	64.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-03	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-11	Feet below surface:	57.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-15	Feet below surface:	59.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	63.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	63.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	63.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-03-09	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-25	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-17	Feet below surface:	64.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-30	Feet below surface:	65.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-12	Feet below surface:	63.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-13	Feet below surface:	63.3
Feet to sea level:	Not Reported	Note:	Not Reported

F20
ESE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00010087**

G21
North
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00014499**

H22
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00012710**

H23
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184946**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12C001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19500701	Well Depth:	268
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	43	Level reading date:	1980-03-10
Feet below surface:	83.6	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1979-10-11	Feet below surface:	109.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-10-05	Feet below surface:	97.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-14	Feet below surface:	99.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-16	Feet below surface:	87.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-02	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-18	Feet below surface:	99.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	110.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-25	Feet below surface:	115.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-08	Feet below surface:	111.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-06	Feet below surface:	109.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-20	Feet below surface:	114.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	136.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	115.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-08	Feet below surface:	135.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	104.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-15	Feet below surface:	128.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	98.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	127.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-24	Feet below surface:	129.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-21	Feet below surface:	104.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-29	Feet below surface:	144.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-03-14	Feet below surface:	132.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-07	Feet below surface:	142.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-28	Feet below surface:	144.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-30	Feet below surface:	149.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-10	Feet below surface:	146.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-07	Feet below surface:	142.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-14	Feet below surface:	121.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-24	Feet below surface:	122.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-24	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-23	Feet below surface:	122.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-30	Feet below surface:	147.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-27	Feet below surface:	138.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-30	Feet below surface:	130.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-04	Feet below surface:	155.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-02	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-24	Feet below surface:	118.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	131.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-13	Feet below surface:	130.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-18	Feet below surface:	111.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-16	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	**USGS40000184987**

G24
North
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E02R001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751112	Well Depth:	33
Well Depth Units:	ft	Well Hole Depth:	33
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	60	Level reading date:	1981-12-21
Feet below surface:	16.4	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1981-11-18	Feet below surface:	15.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-01	Feet below surface:	16.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-30	Feet below surface:	16.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	15.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	18.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-13	Feet below surface:	17.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-05	Feet below surface:	17.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	21.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	20.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-01	Feet below surface:	20.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-12	Feet below surface:	19.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	18.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-05-06	Feet below surface:	17.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	15.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-29	Feet below surface:	12.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	14.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-10	Feet below surface:	13.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	13.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	13.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	13.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	13.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	13.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	13.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	13.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-01	Feet below surface:	14.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	15.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-05	Feet below surface:	20.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	18.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	16.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	20.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-04	Feet below surface:	18.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	18.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-04	Feet below surface:	19.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-06-06	Feet below surface:	17.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-01	Feet below surface:	16.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-09	Feet below surface:	12.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-05	Feet below surface:	17.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-20	Feet below surface:	18.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	19.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-19	Feet below surface:	18.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	18.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	17.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	17.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	16.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-02	Feet below surface:	15.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	14.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	15.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	14.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	14.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-02	Feet below surface:	15.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-10	Feet below surface:	17.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-14	Feet below surface:	19.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-07	Feet below surface:	19.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-11	Feet below surface:	19.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-04-14	Feet below surface:	18.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	19.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	18.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-11	Feet below surface:	17.2
Feet to sea level:	Not Reported	Note:	Not Reported

G25
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037141**

State Well #:	03S01E02R001M	Station ID:	46350
Well Name:	3S/1E 2R 1	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	33	Well Completion Rpt #:	253974

26
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037113**

State Well #:	03S01E02Q001M	Station ID:	46349
Well Name:	3S/1E 2Q 1	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	45	Well Completion Rpt #:	568115

27
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037042**

State Well #:	03S01E12G001M	Station ID:	46397
Well Name:	3S/1E 12G 1	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	73	Well Completion Rpt #:	261450

28
North
1/2 - 1 Mile
Higher

AQUIFLOW **53517**

Site ID:	Not Reported
Groundwater Flow:	SW
Shallow Water Depth:	33
Deep Water Depth:	37
Average Water Depth:	Not Reported
Date:	05/31/1991

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
I29 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000037017**

State Well #:	03S01E12K003M	Station ID:	46399
Well Name:	3S/1E 12K 3	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	475	Well Completion Rpt #:	Not Reported

	Database	EDR ID Number
I30 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000037018**

State Well #:	03S01E12K004M	Station ID:	46400
Well Name:	3S/1E 12K 4	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	575	Well Completion Rpt #:	Not Reported

	Database	EDR ID Number
I31 **SE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000037014**

State Well #:	03S01E12K002M	Station ID:	46398
Well Name:	3S/1E 12K 2	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	300	Well Completion Rpt #:	none

	Database	EDR ID Number
32 **SSE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR0000037881**

	Database	EDR ID Number
J33 **SE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000184813**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12P005M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	348
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J34
SE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000184811**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12P001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19480216	Well Depth:	348
Well Depth Units:	ft	Well Hole Depth:	348
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	37	Level reading date:	1982-01-19
Feet below surface:	95.1	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	98.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	99.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	101.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	102.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-16	Feet below surface:	104.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	105.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	107.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	108.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	117.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-07-01	Feet below surface:	105.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	104.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	105.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	130.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	122.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	122.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	120.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	96.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-01-12	Feet below surface:	96.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported

J35
SE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00003646**

K36
NE
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000305**

Well ID:	103559	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	03S/01E-01P02 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Calcium	Results:	68
Units:	MG/L	Date:	11/09/2005
Chemical:	Magnesium	Results:	46.4
Units:	MG/L	Date:	11/09/2005
Chemical:	Potassium	Results:	2.32
Units:	MG/L	Date:	11/09/2005
Chemical:	Nitrogen, Nitrate (as N)	Results:	1.4
Units:	MG/L	Date:	11/09/2005
Chemical:	Chloride	Results:	214.5
Units:	MG/L	Date:	11/09/2005
Chemical:	Sulfate	Results:	88.8
Units:	MG/L	Date:	11/09/2005
Chemical:	Fluoride	Results:	.5
Units:	MG/L	Date:	11/09/2005
Chemical:	Sodium	Results:	211
Units:	MG/L	Date:	11/09/2005
Chemical:	Ammonia-Ammonium (NH3-NH4) as N		
Results:	-.01	Units:	MG/L
Date:	11/09/2005		

Chemical:	Nitrite	Results:	-.01
Units:	MG/L	Date:	11/09/2005

K37
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184975**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E01P002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751112	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	50
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	153	Level reading date:	1982-01-29
Feet below surface:	23.5	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	23.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	23.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	25.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-07	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	27.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	26.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-10	Feet below surface:	26.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	27.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-10-26	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-19	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-13	Feet below surface:	27.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-05	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-31	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-29	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	28.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-03-10	Feet below surface:	26.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-06	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	26.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	26.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	26.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-12	Feet below surface:	28.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-25	Feet below surface:	28.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-18	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-10	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-03	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-10-20	Feet below surface:	27.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-06	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-01	Feet below surface:	26.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-22	Feet below surface:	25.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-09	Feet below surface:	24.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	23.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-19	Feet below surface:	23.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-12	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	20.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-14	Feet below surface:	16.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	15.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-09	Feet below surface:	15.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-26	Feet below surface:	15.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-12	Feet below surface:	16.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-06	Feet below surface:	16.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-27	Feet below surface:	16.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	17.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-31	Feet below surface:	17.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-17	Feet below surface:	17.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-03	Feet below surface:	17.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-29	Feet below surface:	17.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-02-18	Feet below surface:	19.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	20.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	19.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-07	Feet below surface:	22.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-24	Feet below surface:	22.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-10	Feet below surface:	23.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	22.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-26	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-13	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-29	Feet below surface:	21.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-15	Feet below surface:	23.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-10	Feet below surface:	23.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	22.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	22.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	22.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	22.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	22.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-08-02	Feet below surface:	25.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	25.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	25.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	24.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-04	Feet below surface:	24.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-21	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-07	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	24.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	23.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	23.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-23	Feet below surface:	23.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-12	Feet below surface:	23.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	22.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	24.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-13	Feet below surface:	25.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	24.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-02-05	Feet below surface:	24.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	24.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-23	Feet below surface:	22.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	22.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	26.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-05	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	24.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-04	Feet below surface:	24.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	23.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-02	Feet below surface:	21.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-14	Feet below surface:	18.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-05	Feet below surface:	23.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-14	Feet below surface:	23.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	24.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	25.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	23.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	23.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	21.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-02	Feet below surface:	21.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	21.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-12-06	Feet below surface:	22.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	21.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	20.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-02	Feet below surface:	23.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-10	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-14	Feet below surface:	24.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-07	Feet below surface:	25.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-11	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-14	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-09	Feet below surface:	23.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	25.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-10	Feet below surface:	25.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-30	Feet below surface:	24.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-11	Feet below surface:	23.3
Feet to sea level:	Not Reported	Note:	Not Reported

K38
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00001628**

K39
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037134**

State Well #:	03S01E01P002M	Station ID:	46342
Well Name:	3S/1E 1P 2	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	50	Well Completion Rpt #:	107417

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

40
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037091**

State Well #:	03S01E11C003M	Station ID:	46393
Well Name:	3S/1E 11C 3	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	55	Well Completion Rpt #:	568119

L41
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000184884**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12H001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19580916	Well Depth:	342
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	89	Level reading date:	1982-01-29
Feet below surface:	94.0	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	96.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	97.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	98.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	99.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-07	Feet below surface:	100.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-16	Feet below surface:	102.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	103.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-19	Feet below surface:	103.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-13	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-05	Feet below surface:	105.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-21	Feet below surface:	104.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-14	Feet below surface:	104.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-31	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-26	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-17	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	103.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-27	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-20	Feet below surface:	103.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	102.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-29	Feet below surface:	101.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-22	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-06-16	Feet below surface:	101.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	101.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	100.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-20	Feet below surface:	99.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	95.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-30	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	95.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-28	Feet below surface:	95.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	95.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-03	Feet below surface:	94.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-12	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-09	Feet below surface:	95.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-20	Feet below surface:	93.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	90.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	93.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	111.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	109.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-11	Feet below surface:	99.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-16	Feet below surface:	98.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	130.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-20	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-18	Feet below surface:	123.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	134.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	121.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-15	Feet below surface:	135.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-25	Feet below surface:	111.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	134.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-24	Feet below surface:	150.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	130.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	176.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-30	Feet below surface:	122.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-20	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-30	Feet below surface:	175.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-22	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-25	Feet below surface:	169.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-25	Feet below surface:	130.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-24	Feet below surface:	142.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-13	Feet below surface:	171.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-03-25	Feet below surface:	149.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-27	Feet below surface:	178.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-20	Feet below surface:	140.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	172.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-25	Feet below surface:	151.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-07	Feet below surface:	194.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-30	Feet below surface:	149.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-01	Feet below surface:	166.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-01	Feet below surface:	164.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-15	Feet below surface:	163.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-01	Feet below surface:	162.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-03	Feet below surface:	163.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06	Feet below surface:	162.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03	Feet below surface:	135.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported

L42
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00008901**

M43
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037151**

State Well #:	03S01E02J002M	Station ID:	46344
Well Name:	3S/1E 2J 2	Basin Name:	Livermore Valley

Well Use:	Observation	Well Type:	Single Well
Well Depth:	41	Well Completion Rpt #:	568116

M44
North
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000048**

Well ID:	103560	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	03S/01E-02J02 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Ammonia-Ammonium (NH3-NH4) as N		
Results:	-.01	Units:	MG/L
Date:	11/09/2005		

Chemical:	Nitrogen, Nitrate (as N)	Results:	2.629
Units:	MG/L	Date:	11/09/2005

Chemical:	Sodium	Results:	437.3
Units:	MG/L	Date:	11/09/2005

Chemical:	Calcium	Results:	128.34
Units:	MG/L	Date:	11/09/2005

Chemical:	Fluoride	Results:	.1
Units:	MG/L	Date:	11/09/2005

Chemical:	Potassium	Results:	2.4
Units:	MG/L	Date:	11/09/2005

Chemical:	Magnesium	Results:	70.5
Units:	MG/L	Date:	11/09/2005

Chemical:	Sulfate	Results:	174.4
Units:	MG/L	Date:	11/09/2005

Chemical:	Nitrite	Results:	-.01
Units:	MG/L	Date:	11/09/2005

Chemical:	Chloride	Results:	586.6
Units:	MG/L	Date:	11/09/2005

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
45 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000022542**

N46
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037084**

State Well #:	03S01E12A002M	Station ID:	46396
Well Name:	3S/1E 12A 2	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	69	Well Completion Rpt #:	261450

N47
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184927**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12A002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751105	Well Depth:	68.7
Well Depth Units:	ft	Well Hole Depth:	75
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	62	Level reading date:	1981-12-21
Feet below surface:	37.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-18	Feet below surface:	40.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	40.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-01	Feet below surface:	39.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	40.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	39.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-02	Feet below surface:	38.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	37.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-04-14	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-06	Feet below surface:	36.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-12	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-21	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	34.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-19	Feet below surface:	32.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-07	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	34.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	38.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	35.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	33.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	33.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	32.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	32.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	30.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	30.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-31	Feet below surface:	38.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-06-05	Feet below surface:	36.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-04	Feet below surface:	36.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	36.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	38.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	41.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	43.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-05	Feet below surface:	39.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-04	Feet below surface:	43.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-07	Feet below surface:	42.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	41.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-02	Feet below surface:	38.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-14	Feet below surface:	41.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	44.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-20	Feet below surface:	51.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	50.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	50.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-15	Feet below surface:	49.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-12	Feet below surface:	47.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	46.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	45.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-02	Feet below surface:	41.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-01-21	Feet below surface:	46.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	42.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	48.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-03	Feet below surface:	45.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-11	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-15	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	45.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	43.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	41.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-09	Feet below surface:	36.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	33.9
Feet to sea level:	Not Reported	Note:	Not Reported

N48
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00018312**

L49
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000004031**

O50
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184791**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11P004M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O51
SW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00001088**

P52
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184745**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E14A002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19770605	Well Depth:	210
Well Depth Units:	ft	Well Hole Depth:	220
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	9	Level reading date:	1981-08-19
Feet below surface:	88.3	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-06-08	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-27	Feet below surface:	83.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-07	Feet below surface:	84.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-27	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-05	Feet below surface:	83.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-18	Feet below surface:	82.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	93.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-27	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
P53 **SSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAUSGSN00002975**

Q54
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000185000**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E02P003M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19751003	Well Depth:	380
Well Depth Units:	ft	Well Hole Depth:	380
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	6	Level reading date:	1981-05-05
Feet below surface:	79.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-10-08	Feet below surface:	76.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-16	Feet below surface:	70.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-06	Feet below surface:	75.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-21	Feet below surface:	102
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-26	Feet below surface:	120.5
Feet to sea level:	Not Reported	Note:	Not Reported

R55
East
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000212**

Well ID:	101194	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	03S/01E-12H04 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Tritium (Hydrogen 3)	Results:	19.57
Units:	pCi/L	Date:	01/09/2002

Chemical:	Neon	Results:	.000000423227
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Helium-3/Helium-4	Results:	.00000150003
Units:	atom ratio	Date:	02/13/2002
Chemical:	Xenon	Results:	.0000000126573
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Argon	Results:	.000461887
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Helium-4	Results:	.000000101973
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Krypton	Results:	.0000000919706
Units:	cm3STP/g	Date:	02/13/2002

R56
East
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000505**

Well ID:	101195	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	03S/01E-12H05 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Helium-4	Results:	.000000130859
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Neon	Results:	.000000534113
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Helium-3/Helium-4	Results:	.00000143862
Units:	atom ratio	Date:	02/13/2002
Chemical:	Argon	Results:	.000562814
Units:	cm3STP/g	Date:	02/13/2002
Chemical:	Tritium (Hydrogen 3)	Results:	16.1
Units:	pCi/L	Date:	01/09/2002
Chemical:	Krypton	Results:	.000000108033
Units:	cm3STP/g	Date:	02/13/2002

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
S57 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAPFAS000000553**
S58 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000013325**
59 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000016102**
S60 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000037039**

State Well #:	03S01E11M002M	Station ID:	46394
Well Name:	3S/1E 11M 2	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	700	Well Completion Rpt #:	719990

S61 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000037038**	
State Well #:	03S01E11M003M	Station ID:	46395
Well Name:	3S/1E 11M 3	Basin Name:	Livermore Valley
Well Use:	Industrial	Well Type:	Single Well
Well Depth:	684	Well Completion Rpt #:	1086586

Q62 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000064782**
Q63 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000085609**

Map ID Direction Distance Elevation	Database	EDR ID Number
Q64 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000134786**

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65 **South** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADDW0000007287**

T66 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAUSGSN00002821**

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67 **North** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000037171**

State Well #:	03S01E02J003M	Station ID:	46345
Well Name:	3S/1E 2J 3	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	65	Well Completion Rpt #:	568117

T68 **NNW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000185023**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E02K002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751110	Well Depth:	46.5
Well Depth Units:	ft	Well Hole Depth:	46.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	100	Level reading date:	1981-08-27
Feet below surface:	30.6	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-12-12	Feet below surface:	29.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-20	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-06	Feet below surface:	29.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-10-01	Feet below surface:	29.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-22	Feet below surface:	29.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-09	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-19	Feet below surface:	28.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-12	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-18	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-26	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-09	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	29.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-26	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-12	Feet below surface:	26.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-07	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-27	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	26.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-10	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-31	Feet below surface:	25.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-17	Feet below surface:	25.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-05	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-03-03	Feet below surface:	25.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-29	Feet below surface:	25.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-18	Feet below surface:	28.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-07	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-24	Feet below surface:	31.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-10	Feet below surface:	31.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	31.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-26	Feet below surface:	31.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-13	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-29	Feet below surface:	31.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-15	Feet below surface:	31.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-10	Feet below surface:	31.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	30.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	30.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	30.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	30.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	30.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-08-27	Feet below surface:	30.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	30.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-01	Feet below surface:	30.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	30.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	29.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	29.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-06	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-04	Feet below surface:	28.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-21	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-07	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-23	Feet below surface:	28.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-12	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	38.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	29.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-02-05	Feet below surface:	29.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	29.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-23	Feet below surface:	30.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-20	Feet below surface:	30.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-06	Feet below surface:	31.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-02	Feet below surface:	30.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-04	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	28.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-01	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-09	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-05	Feet below surface:	34.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-19	Feet below surface:	34.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	34.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-19	Feet below surface:	33.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-14	Feet below surface:	33.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-12	Feet below surface:	32.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	32.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	32.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-02	Feet below surface:	32.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-01-21	Feet below surface:	32.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	32.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-09	Feet below surface:	32.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	31.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-02	Feet below surface:	31.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-10	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-14	Feet below surface:	31.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-07	Feet below surface:	30.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-11	Feet below surface:	29.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-14	Feet below surface:	29.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-25	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported

Q69
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000080654**

Q70
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000078825**

Q71
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000095453**

72
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000027180**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
U73 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000051263**

74
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037162**

State Well #:	03S01E01L001M	Station ID:	46341
Well Name:	3S/1E 1L 1	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	70	Well Completion Rpt #:	Not Reported

V75
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000184726**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E13E001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19760608	Well Depth:	97
Well Depth Units:	ft	Well Hole Depth:	97
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	125	Level reading date:	1982-01-19
Feet below surface:	27.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	35.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	52.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-07	Feet below surface:	75.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-30	Feet below surface:	72.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-16	Feet below surface:	69.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	74.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	77.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-19	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-13	Feet below surface:	76.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-05	Feet below surface:	75.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	74.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-27	Feet below surface:	42.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	64.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-16	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	47.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-20	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	48.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-10	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	45.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	44.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	42.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	50.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-06	Feet below surface:	47.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-30	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	46.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-25	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-23	Feet below surface:	46.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-18	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-16	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-14	Feet below surface:	49.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-11	Feet below surface:	44.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-10	Feet below surface:	45.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-09	Feet below surface:	47.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	49.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	52.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	55.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	66.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-16	Feet below surface:	66.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	57.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-27	Feet below surface:	55.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-04-20	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	63.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	51.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	47.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-27	Feet below surface:	50.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	50.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	56.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	65.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	64.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	55.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-19	Feet below surface:	55.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	56.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	55.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	56.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-01	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	63.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	68.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-09-10	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	72.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	74.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	74.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	73.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-23	Feet below surface:	72.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-20	Feet below surface:	70.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-16	Feet below surface:	67.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	65.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-09	Feet below surface:	63.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-06	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	60.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-24	Feet below surface:	61.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-13	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-11	Feet below surface:	60.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-29	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-14	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	58.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	56.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-13	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	59.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	55.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	54.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-19	Feet below surface:	56.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-08	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	54.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-07	Feet below surface:	59.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	59.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	56.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	62.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-17	Feet below surface:	60.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-31	Feet below surface:	66.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	77.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-05	Feet below surface:	67.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-08	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-24	Feet below surface:	79.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-26	Feet below surface:	94.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-20	Feet below surface:	76.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-25	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	75.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-27	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-08	Feet below surface:	80.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-19	Feet below surface:	77.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	79.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-25	Feet below surface:	79.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-09	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	75.6
Feet to sea level:	Not Reported	Note:	Not Reported

V76
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00008181**

U77
NW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000057271**

W78
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00010355**

W79
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGS000000784**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T80
NNW
1/2 - 1 Mile
Higher | **CA WELLS** | **CADWR9000037170**

State Well #:	03S01E02K002M	Station ID:	46346
Well Name:	3S/1E 2K 2	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	46	Well Completion Rpt #:	261447

X81
WNW
1/2 - 1 Mile
Lower | **CA WELLS** | **CAUSGSN00004226**

Y82
West
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000184893**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11E001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19550815	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	500
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	30	Level reading date:	1981-05-08
Feet below surface:	80.0	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-10-07	Feet below surface:	70.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-16	Feet below surface:	65.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-20	Feet below surface:	79.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-06	Feet below surface:	70.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	92.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-18	Feet below surface:	97.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-26	Feet below surface:	107.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	93.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-27	Feet below surface:	107.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-10	Feet below surface:	83.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-22	Feet below surface:	102.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-27	Feet below surface:	79.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-26	Feet below surface:	93.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	126.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-05	Feet below surface:	155.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-03	Feet below surface:	99.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-10	Feet below surface:	122.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-05	Feet below surface:	127.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-04	Feet below surface:	150.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-08	Feet below surface:	106.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-12-23	Feet below surface:	109.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-12-11	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-27	Feet below surface:	114.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-13	Feet below surface:	114.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-29	Feet below surface:	116.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-10-15	Feet below surface:	128.5
Feet to sea level:	Not Reported	Note:	Not Reported

X83
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184959**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E02N003M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19611003	Well Depth:	316
Well Depth Units:	ft	Well Hole Depth:	316
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	47	Level reading date:	1981-12-17
Feet below surface:	71.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-09-08	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-19	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	80.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	81.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	80.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-20	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	74.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-30	Feet below surface:	71.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	72.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-26	Feet below surface:	71.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-28	Feet below surface:	71.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	73.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-12-03	Feet below surface:	72.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-12	Feet below surface:	75.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	74.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-19	Feet below surface:	75.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-17	Feet below surface:	72.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-16	Feet below surface:	69.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-07	Feet below surface:	71.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-06	Feet below surface:	76.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	86.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-23	Feet below surface:	80.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-06	Feet below surface:	74.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-07	Feet below surface:	79.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-13	Feet below surface:	90.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-28	Feet below surface:	103.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-19	Feet below surface:	98.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-06	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-22	Feet below surface:	107.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-17	Feet below surface:	119.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-28	Feet below surface:	108.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-21	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-18	Feet below surface:	96.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-01-18	Feet below surface:	97.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-21	Feet below surface:	99.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-23	Feet below surface:	100.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-20	Feet below surface:	101.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-24	Feet below surface:	108.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-26	Feet below surface:	108.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-22	Feet below surface:	105.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-17	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-27	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-25	Feet below surface:	91.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-24	Feet below surface:	90.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-28	Feet below surface:	89.9
Feet to sea level:	Not Reported	Note:	Not Reported

X84
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037111**

State Well #:	03S01E02N006M	Station ID:	46348
Well Name:	3S/1E 2N 6	Basin Name:	Livermore Valley
Well Use:	Observation	Well Type:	Single Well
Well Depth:	55	Well Completion Rpt #:	Not Reported

Y85
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000025585**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1G **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SW 33 37 Not Reported 05/31/1991	**AQUIFLOW**	**53517**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94551	7	0

Federal EPA Radon Zone for ALAMEDA 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 ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is 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

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APPENDIX E

RESUMES

ARDENT
ENVIRONMENTAL GROUP, INC.

RESUME OF JONATHAN ANDERSON
Project Geologist

EDUCATION

Bachelor of Arts, Geology, 2013, California State University, San Bernardino

REGISTRATIONS AND CERTIFICATIONS

Professional Geologist, California PG 9876
OSHA 40-Hour Health and Safety Training (with annual updates)
EPA/AHERA Building Inspector, and Contractor/Supervisor
HAZWOPER 40-Hour Training (with annual updates)

EMPLOYMENT HISTORY

2013-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

Mr. Anderson has a strong background in geology, geography, chemistry, and physics which provides support in completing a variety of field and office tasks during environmental assessments, site characterization, and remediation projects. Tasks include development of work plans, drilling and sampling soil borings, installation and abandonment of groundwater monitoring wells, development and sampling of groundwater wells, collecting wipe and bulk building material samples, research and review of regulatory and historical land use records, directing subcontractors, data evaluation, and technical report preparation. Mr. Anderson's project experience includes:

- **Groundwater Monitoring and Vapor Extraction Well Installation:** Mr. Anderson has installed a number of groundwater monitoring wells and vapor extraction wells at properties throughout Southern California. The wells were installed to assess groundwater conditions and to characterize impacted media. Vapor extraction wells were part of a soil vapor extraction remediation systems. These tasks include obtaining well construction permits, interactions with regulatory agencies, directing drilling and surveyor contractors, and designing well construction. Following installation, groundwater monitoring wells are developed by various methods including bailing, surging, and pumping while monitoring water quality parameters.

- **Monitoring Well Abandonment:** Senior Staff Geologist for a property in Los Angeles involving the abandonment of groundwater monitoring and soil vapor wells. Duties include obtaining permits, directing subcontractors, and preparation of a well closure report for submittal to a regulatory agency.

- **Groundwater Monitoring:** Perform quarterly groundwater monitoring activities at facilities throughout Southern California. Depth to groundwater is measured with electric sounders before sampling. Wells are purged of static groundwater using submersible pumps and hand bailers. Groundwater is collected from monitoring wells and sent to a laboratory for analyses on a quarterly basis to determine the effectiveness of remedial actions at the properties.

Quarterly monitoring reports are prepared and are uploaded to the State's GeoTracker website.

- **Phase I Environmental Site Assessment:** Senior Staff Geologist for Phase I Environmental Site Assessment reports throughout Southern California. Report preparation includes site reconnaissance activities involving visual site inspection, research and review of regulatory records and historical land use records, and identification of potential environmental concerns and/or impacts to the site.

- **Phase II Site Characterization:** Staff Geologist for projects involving the advancement of soil borings by direct-push, MIP, and hollow stem auger methods to assess the nature, magnitude, and extent of soil contamination. These duties also include conducting soil gas surveys to assess vapor concentrations of volatile organic compounds (VOCs) for human health risks.

- **Asbestos Sampling:** Conducts surveys of commercial buildings to identify suspect asbestos-containing materials (ACM) and sampling of suspect materials for asbestos analysis. Performs air sampling to assess the concentration of asbestos fibers in air to assess general building conditions and for monitoring and clearance of asbestos abatement.

- **Mold Assessment:** Staff Geologist for the assessment of the presence and extent of mold contamination in commercial buildings. Includes moisture surveys using infrared scanning, direct moisture measurements using handheld instruments, and the collection of air samples for assessment of mold spore concentrations in air.

- **Soil Remediation:** As Senior Staff Geologist, Mr. Anderson was involved with a long-term soil remediation project that included the excavation of over 50,000 cubic yards of petroleum hydrocarbon impacted soil at a property in Downtown Los Angeles. Tasks associated with this project included the preparation, submittal, and implementation of a South Coast Air Quality Management District (SCAQMD) Site Specific Soil Mitigation Plan, daily soil monitoring and quantifying of VOC impacted soil discovered during excavation, providing manifests to disposal transportation companies, interacting with contractors and clients, as well as documenting the discovery and mitigation of unknown environmental concerns discovered during project oversight, including underground storage tanks (USTs) and hydraulic lifts. Mr. Anderson documented these activities in a final environmental grading report.

- **Soil Vapor Monitoring Point Installation and Sampling:** Mr. Anderson installed and sampled soil vapor monitoring points at a number of properties located throughout Southern and Northern California to further assess whether a vapor intrusion issue was present due to past and/or present site activities. This task included the installation of soil vapor monitoring points, purging stagnant air, and collecting vapor samples in Tedlar bags, Summa canisters, or by glass syringe for analysis by a mobile laboratory. Installation and sampling were conducted in accordance with current Department of Toxic Substances Control (DTSC) guidelines.

ASSOCIATIONS

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ARDENT
ENVIRONMENTAL GROUP, INC.

RESUME OF PAUL A. ROBERTS
Principal Geologist

EDUCATION

Bachelor of Science, Geology, 1987, California State University, Fullerton, California

REGISTRATION AND CERTIFICATIONS

Professional Geologist, California PG 6897
Registered Geologist, Arizona RG 42445
Licensed Geologist, Washington LG 22000994
Ventura County Well Inspector
OSHA 40-Hour Health and Safety Training (with annual updates)
OSHA 8-Hour Health and Safety Supervisor Training

EMPLOYMENT HISTORY

1986-1996 – Applied Geosciences Inc. (environmental consulting)
1996-1998 – ATC Associates (environmental consulting)
1998-2007 – Ninyo & Moore (environmental consulting)
2007-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

As a Principal Geologist for Ardent Environmental Group, Inc., Mr. Roberts conducts and coordinates high-profile hydrogeologic and geologic field evaluations. Mr. Roberts also supervises staff- and project-level geologists, engineers, and scientists to complete the installation of groundwater monitoring wells and soil and groundwater remediation systems, as well as completing pilot tests and feasibility studies for remedial system design. Mr. Roberts is very familiar with mud- and air-rotary, sonic, direct-push, and hollow stem auger drilling techniques, and interprets geophysical data and soil physical analyses to design water well construction. As part of these tasks, Mr. Roberts interacts with clients, attorneys, and agency representatives. The following presents a partial list of projects supervised and/or completed by Mr. Roberts.

- **Water Replenishment District of Southern California (District), Santa Fe Springs:** California Professional Geologist retained to log and sample deep borings in preparation to install nested groundwater monitoring wells as part of the Central Basin Groundwater Contamination Study. The work was completed to assist the United States Geological Survey (USGS) and the District to find mergence zones or pathways where known volatile organic compound (VOC)-impacted shallow groundwater could be migrating into deeper water supply aquifers. The work included drilling pilot borings using mud-rotary drilling methods to depths of approximately 518 feet below the ground surface (bgs). During drilling activities, Mr. Roberts monitored drilling conditions, logged cuttings and collected soil samples for lithological interpretation. Following drilling activities, downhole geophysical equipment, including suspension velocity measurements, resistivity, spontaneous potential and natural gamma logging, and caliper and natural gamma logging, was used to further assess lithological conditions. Based on these data, Mr. Roberts assisted representatives from the USGS and District to design and oversee installation of 10 groundwater monitoring wells. Following installation, the wells were developed and sampled.

- **Former Ashland Chemical Plant, Santa Fe Springs:** Principal Geologist retained to log and sample deep borings for the installation of groundwater monitoring, extraction, and injection wells used to characterize and remediate VOC impacted groundwater associated with a former chemical plant. Sonic, mud-rotary, and hollow stem auger drilling methods were used to drill pilot borings to depths of up to 407 feet bgs. Hydropunch sampling results and soil physical analyses were used to design deep nested groundwater monitoring and remediation wells. Well development and sampling were also completed.

- **Former Optical Lens Manufacturing Facility, Costa Mesa:** Mr. Roberts is the Project Coordinator for an on-going VOC soil and groundwater investigation/remediation effort associated with a former optical lens manufacturing facility. The investigations are being completed under the direction and oversight of the Department of Toxic Substances Control (DTSC) as part of the regional Costa Mesa Site Discovery Project. Investigations have included the installation and sampling of groundwater monitoring wells, soil investigations and characterization, indoor air monitoring, and remedial design of a soil vapor extraction system (VES).

- **Former CENCO Refinery Properties, Santa Fe Springs**: Mr. Roberts supervised and coordinated the environmental activities associated with the acquisition and redevelopment of two properties formerly occupied by the CENCO Refinery. These properties, located immediately east and southeast of the main refinery, were used by CENCO and others for product storage and oil recycling. Oil field production and oil well drilling waste disposal was also historically associated with this land. Mr. Roberts worked with the City of Santa Fe Springs Fire Department and DTSC to investigate historical environmental issues; mitigate petroleum hydrocarbon and polychlorinated biphenyl (PCB)-impacted soil through on-site management by the installation of an impermeable cap (referred to as the "PCB-Capped Area") or by excavation; removal of underground storage tanks (USTs); methane gas assessment, mitigation design and implementation, and monitoring; groundwater well video logging and abandonment; and oil well abandonment. Currently, Mr. Roberts completes annual inspections and 5-year reviews of the PCB-Capped Area and supervises the annual monitoring of methane gas beneath the buildings.

- **Former Nissan North America Corporate Headquarters, Carson:** Project Geologist to oversee the characterization of petroleum hydrocarbon-impacted soil and groundwater associated with a release from a fuel UST. Mr. Roberts oversaw the installation of 15 groundwater monitoring wells and four vapor extraction wells. Following completion of a soil vapor extraction pilot test, Mr. Roberts designed and implemented a VES which successfully remediated the impacted soil. Groundwater remediation was completed using in-situ air stripping techniques.

- **Northwest Pipe Company Property, Jurupa Valley; Commerce Casino, Commerce; Rock-Lomita Property, Torrance; Former Ball Glass Plant, Torrance; and BMW of Riverside, Riverside:** Principal Geologist managing and coordinating environmental characterization of petroleum hydrocarbon or VOC-impacted soil associated with releases from historical manufacturing activities or USTs at a number of properties throughout Southern California. Tasks included the installation of soil remediation systems, completion of pilot studies, and the design and implementation of full-scale SVE systems. These systems were operated until effluent soil vapor concentrations and/or the results of confirmation soil samples met residential or commercial standards. During these operations,

Mr. Roberts interacted with lead regulatory agencies including the Regional Water Quality Control Board, DTSC, or local fire departments. Most of these facilities also included the installation and monitoring of groundwater monitoring wells. Some of these systems are on-going.

- **Port of Los Angeles:** Project Geologist managing several environmental projects for the Port of Los Angeles (POLA) under an on-call contract. Project Geologist interacting with POLA personnel regarding environmental issues associated with land purchases, tenant audits, and on-call remediation. Projects have involved removal of underground storage tanks at the Yang Ming Terminal and continued groundwater monitoring, and the implementation of a corrosion study at a potential automobile storage yard in the Port of Los Angeles.

- **Alameda Corridor Transportation Authority:** Project Geologist managing numerous environmental projects under an on-call remediation services contract. Projects have involved remediation of petroleum pipelines and impacted soil discovered during construction activities of the Alameda Corridor. One project involved dredging metal-impacted soil from the Port of Los Angeles, where Mr. Roberts acted as the liaison between POLA and ACTA representatives.

- **Riverside County Transportation Commission (RCTC):** Project Manager for several projects for RCTC. On one occasion, RCTC discovered impacted soil and a groundwater well during redevelopment of a property in Corona. As not to delay grading activities, Mr. Roberts successfully obtained an expedited groundwater well destruction permit with Riverside County, profiled the soil for excavation and disposal, and abandoned the well. The property was subsequently developed with a Metrolink station with minimal delays.

- **Jack in the Box and Qdoba Restaurants:** Since 1991, Mr. Roberts has acted as Project Geologist managing numerous Phase I Environmental Site Assessments and other environmental issues regarding real estate transactions for Jack in the Box Inc. Since most of the properties are corner parcels which contained historical gasoline stations, Mr. Roberts would subsequently manage and conduct Phase II Subsurface Investigations to assess whether impacted soil and/or groundwater exists at the site and, if present, characterize the extent of the contaminants. In June 2012, Jack in the Box Inc. and Qdoba Restaurants (owned by Jack in the Box Inc.) awarded Ardent Environmental Group, Inc. an on-call environmental management contract for all Jack in the Box and Qdoba properties throughout the United States. Mr. Roberts is the Project Manager for this contract which includes completing Preliminary Environmental Reviews of possible property acquisitions, completing and managing Phase I and Phase II Environmental Site Assessments and asbestos surveys, and on-call consultation regarding environmental issues and concerns.

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Phase I Environmental Site Assessment

Oaks Business Park
Northwest of Stanley Boulevard and Isabel Avenue
Alameda County, California

Prepared for:
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248

Prepared by:
Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880

June 19, 2019
Project No. 101110001

ARDENT
ENVIRONMENTAL GROUP, INC.

June 19, 2019
Project No. 101110001

Ms. Montana Kanen
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248

Subject: Phase I Environmental Site Assessment
Oaks Business Park
Northwest of Stanley Boulevard and Isabel Avenue
Alameda County, California

Dear Ms. Kanen:

Ardent Environmental Group, Inc. (Ardent) has performed a Phase I Environmental Site Assessment of the above-referenced property (site). Work was completed in general accordance with the Professional Services Agreement dated May 16, 2019 between Overton Moore Properties (OMP) and Ardent. The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. We appreciate the opportunity to be of service to you on this project. If there are any questions, please feel free to call the undersigned at your convenience.

Sincerely,
Ardent Environmental Group, Inc.

Johnathan Anderson
Senior Staff Geologist

Dennis Kawasaki
Senior Project Scientist

DK/JA/aw

Distribution: (1) Addressee (electronic copy)

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EXECUTIVE SUMMARY

Ardent Environmental Group, Inc. (Ardent) was retained by Overton Moore Properties (OMP) to perform a Phase I Environmental Site Assessment (ESA) for the property located northwest of the Stanley Boulevard and Isabel Avenue intersection in an unincorporated area of Alameda County (near the city of Livermore), California (site or subject property). The site has been used for agricultural purposes or vacant land since at least 1906. OMP is considering purchasing the site for redevelopment as commercial warehouse buildings referred to as the Oaks Business Park. Document review and site assessment activities for this report were conducted between May 20 and June 7, 2019.

In summary, the following items were noted:

- Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant. The site vicinity consisted of vacant land until the 1970s when residential development began in the area east of the site. A sand and gravel quarry was noted on the property adjoining west of the site by 2006. Construction of the commercial and industrial facilities adjoining north of the site began during the late 2000s and completed by 2016.
- Groundwater beneath the site is estimated to be approximately 27 feet bgs with a westerly flow direction.
- No other on or off-site environmental concerns were noted

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E1527-13, ASTM Practice E2600-15, and the EPA Standards and Practices for All Appropriate Inquires (AAI), Final Rule (40 Code of Federal Regulations, Part 312), for the property located northwest of the Stanley Boulevard and Isabel Avenue intersection in an unincorporated area of Alameda County, California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on the information received to date, no evidence or indication of recognized environmental conditions (RECs), historical-RECs (HRECs), controlled-RECs (CRECs), or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property has been revealed. Based on the information obtained during this assessment, Ardent recommends no further work at this time.

1 INTRODUCTION

Ardent Environmental Group, Inc. (Ardent) was retained by Overton Moore Properties (OMP) to perform a Phase I Environmental Site Assessment (ESA) for the property located northwest of the Stanley Boulevard and Isabel Avenue intersection in an unincorporated area of Alameda County (near the city of Livermore), California (site or subject property; Figure 1). Work was conducted in general accordance with the Professional Services Agreement dated May 16, 2019 between OMP and Ardent. The site has been used for agricultural purposes or vacant land since at least 1906. OMP is considering purchasing the site for redevelopment as commercial warehouse buildings referred to as the Oaks Business Park. The following sections identify the purpose, the involved parties, the scope of work, and the limitations and exceptions associated with the Phase I ESA.

1.1 Purpose of Phase I ESA

In accordance with the American Society for Testing and Materials (ASTM) E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Standard E1527-13), the objective of the Phase I ESA was to identify, to the extent feasible pursuant to ASTM Standard E1527-13, recognized environmental conditions (RECs), historical RECs (HRECs), controlled RECs (CRECs), or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property.

ASTM defines RECs as "…the presence or likely presence of any hazardous substance 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." ASTM defines HRECs as "…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)." ASTM defines CRECs as a REC "…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)."

Other environmental considerations include site features or conditions that may have an environmental component of interest but which do not meet the ASTM definition of a REC, CREC, or HREC. ASTM does not necessarily require any actions to address the presence or condition, but such conditions are identified for the sake of thoroughness and completeness.

The United States Environmental Protection Agency ("USEPA" or "EPA") has stated that ASTM Standard E1527-13, is consistent with the Standards and Practices for All Appropriate Inquires (AAI), Final Rule (40 Code of Federal Regulations [CFR], Part 312) and is compliant with the statutory criteria for all appropriate inquires. All appropriate inquires, as defined in the AAI Final Rule, must be conducted by persons seeking the landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) prior to acquiring a property or seeking or receiving federal Brownfields grants under the authorities of CERCLA. The purpose of AAI, as defined in the AAI Final Rule, was to identify releases and threatened releases of hazardous substances which cause or threaten to cause the incurrence of response costs.

As part of this Phase I ESA, Ardent also assessed whether a vapor encroachment condition (VEC) exists at the site. The VEC assessment was completed following the ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM Standard E2600-15). The objective of this work was to evaluate the possibility that hazardous materials or other adverse environmental conditions are present due to past or present use of the site and/or properties in the site vicinity.

1.2 Involved Parties

Mr. Jonathan Anderson of Ardent conducted the historical research, site reconnaissance, regulatory inquiries, and document review. Mr. Dennis Kawasaki completed oversight of the project. Mr. Kawasaki meets the definition of an environmental professional as set forth in the AAI Final Rule.

1.3 Scope of Work

Ardent's scope of work for this Phase I ESA is consistent with ASTM Standard E1527-13 and E2600-15, and included the activities listed below.

- **Review of User Provided Information** – Review of information regarding title and judicial records for environmental liens or activity and use limitations, recorded environmental liens, actual or specialized knowledge or commonly known information regarding environmental conditions at the site, the relationship of the purchase price of the property to the fair market value, readily available maps, environmental reports, and other environmental documents pertaining to the site, as available and obtained from the user/client.
- **Records Review** – Acquisition and review of records, including federal, state, tribal, and local regulatory agency databases, for the site and for properties located within a specified radius of the site; local regulatory agency files for the site and selected nearby properties of potential environmental concern; physical setting sources, including topographic maps, geologic maps, and geologic and hydrogeologic reference documents; and historic land use information including aerial photographs, historical fire insurance rate maps, building department records, and city directories, as necessary, that are reasonably ascertainable, publicly available, can be obtained within reasonable time and cost, and are practically reviewable.
- **Vapor Encroachment Condition (VEC)** – Review available regulatory and client provided data to assess Tier 1 non-numeric screening for the site. Ardent evaluated whether contaminants were present in soil and/or groundwater in the site vicinity which might pose a VEC at the site.
- **Site Reconnaissance** – Performance of a site reconnaissance to visually observe the site and any structure(s) located on the site to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. The purpose of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the site, including the general site setting, site usage, use and storage of hazardous materials and petroleum products, disposal of waste products and materials, sources of polychlorinated biphenyls (PCBs), and evidence of releases and possible risks of contamination from activities at adjacent properties.
- **Interviews** – Interviews with site representatives, including owners, occupants, and site managers, regarding the environmental condition of the site to the extent necessary and such persons are available. Interviews with state and/or local government officials as necessary.
- **Report** – Evaluation of the information and data obtained by the Phase I ESA process outlined above and preparation of this Phase I ESA report documenting findings and providing opinions and conclusions regarding possible environmental impacts and RECs at the site.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ardent should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ardent has no control. Ardent cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

As indicated in Section 13.1.5 of ASTM Standard E1527-13, the following, which is not intended to be all inclusive, represents out-of-scope items with respect to a Phase I ESA: asbestos-containing materials (ACMs), radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historic risk, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, biological agents, and mold. As part of our agreement with the client, Ardent visually assessed site buildings (if present) for possible ACMs, LBP, and mold. In addition, ASTM Standard

E2600-15 supplements the ASTM Standard E1527-13 to include evaluation of VEC using Tier 1 screening.

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, Ardent did not address interpretations of zoning regulations, building code requirements, or property title issues.

1.6 User Reliance

This report may be relied upon and is intended exclusively for use by OMP, its partners, members, investors, affiliates, successors and assigns, and lenders. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the foregoing parties is undertaken at said parties' sole risk.

1.7 Physical Limitations

No physical limitations were encountered during the completion of this report.

1.8 Data Gaps

No significant data gaps were noted during the preparation of this Phase I ESA report.

2 GENERAL SITE CHARACTERISTICS

The following sections describe the location and the current uses of the site and adjacent properties. A site location map is presented as Figure 1, and a site vicinity map is presented as Figure 2. Selected photographs of the site and surrounding properties are provided in Appendix A.

2.1 Location and Legal Description

The site comprises of approximately 45 acres of vacant land northwest of the Stanley Boulevard and Isabel Avenue intersection in an unincorporated area of Alameda County (near the city of Livermore), California (Figure 2). The site lies on the northern portion of two parcels assigned the Tax Assessor's Parcel Numbers (APNs) 904-0010-002-02 and 904-0010-007-00 (Figure 2). The site has no known addresses. A complete legal description of the site is presented in the Preliminary Title Report provided in Appendix B.

The site is bounded as shown on Figure 2. Site boundary information was obtained during the site reconnaissance and information provided by OMP.

2.2 Site Description and Current Site Uses/Operations

The following subsections provide a description of the structures present at the site, the tenants currently occupying the site, the activities being conducted on-site, the heating and cooling systems utilized in the site building(s), the sewage disposal system, and the potable water provider for the site, if any.

2.2.1 Site Description

The site is irregularly-shaped and comprised of approximately 45 acres that is currently vacant land.

2.2.2 Occupants

The site is currently vacant land with no occupants.

2.2.3 Heating and Cooling Systems

The site is vacant, therefore, no heating or cooling systems are present. Future heating and cooling systems will likely use electricity and natural gas provided by the local utility providers.

2.2.4 Sewage Disposal/Septic Systems

The site is vacant, therefore, no sewage disposal or septic systems are present. Future systems will likely be connected to the municipal sewer system.

2.2.5 Potable Water

The site is vacant therefore, no potable water is present. Future potable water will be supplied by the local water purveyor.

2.3 Adjacent Properties

In general, the site vicinity consists of commercial, industrial, and residential developments (Figure 2). Adjoining north of the site is a commercial warehouse building occupied by Tesla, Inc., a bus parking and maintenance facility occupied by the Livermore Amador Valley Transit Authority (LAVTA), and an industrial building occupied by Draxlmaier Group. The site is bound to the southeast and south by a stream, known as the Arroyo Mocho. Further east of the Arroyo Mocho (across Isabel Avenue) are single-family residential developments. Further south of the Arroyo Mocho is vacant land which is bound to the

south by a railroad right-of-way and Stanley Boulevard. Sand and gravel quarries are located further south of Stanley Boulevard and adjoining west of the site.

No aboveground storage tanks (ASTs), evidence of underground storage tanks (USTs), or possible hazardous materials or wastes were noted being stored by off-site facilities along the site property line. These off-site properties would not be considered an environmental concern to the site.

3 USER PROVIDED INFORMATION

The following sections summarize information provided by the user to assist the environmental professional in identifying the possibility of RECs in connection with the site, and to fulfill the user's responsibilities in accordance with Section 6 of ASTM Standard E1527-13. A copy of the user questionnaire is presented in Appendix B. The questionnaire was completed by Mr. Timur Tecimer of OMP.

3.1 Current Title Information

A Preliminary Title Report provided by the client was reviewed by Ardent. The Preliminary Title Report was prepared by Chicago Title Insurance Company, dated March 28, 2019. According to the Preliminary Title Report, the current owner of the site is SMP-40, LLC, a California limited partnership. A copy of the Preliminary Title Report is provided in Appendix B.

3.2 Environmental Liens or Activity and Use Limitations

Our review of the provided title documentation did not reveal records of environmental liens or activity and use limitations (AULs) associated with the site. In addition, Mr. Tecimer was not aware of environmental liens or AULs against the site that are filed or recorded under federal, state, or local law.

3.3 Specialized Knowledge

Mr. Tecimer indicated that, for purposes of this assessment, the client has no specialized knowledge or experience pertaining to the site or the adjacent properties that is material to RECs in connection with the site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Tecimer indicated that, for purposes of this assessment, the client is unaware of any commonly known or reasonably ascertainable information pertaining to the site or the adjacent properties that is material to RECs in connection with the site.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the user shall consider the relationship of the purchase price of the property to fair market value of the property if the property was not affected by hazardous substances or petroleum products. Mr. Tecimer indicated that the purchase price being paid for the site reasonably reflects the fair market value of the site.

3.6 Reason for Performing Phase I ESA

Ardent was retained by OMP to perform a Phase I ESA as part of its real estate due diligence to purchase the site.

3.7 Other User Provided Information

The client provided Ardent with a Biological Constraints Analysis completed for the site by Monk & Associates LLC (M&A) in 2002 to identify potential biological impacts that may occur as a result of proposed aggregate mining at the site (M&A, 2002). As discussed herein mining activities were not completed and the site remained vacant to present-day.

Although outside the scope of the Phase I ESA, the Biological Constraints Analysis provided information of site conditions at the time. According to the Biological Constraints Analysis, the site was historically used for agriculture. In 2002, the site was vacant and reportedly disked on an annual basis for fire control. The Arroyo Mocho bisects the property and was recently redirected to accommodate the construction of Isabel Avenue. Based on a review of the Biological Constraints Analysis, no issues of environmental concern were identified for the site.

4 PHYSICAL SETTING

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon our document review and our visual reconnaissance of the site and adjacent areas.

4.1 Site Topography

Based on a review of the United States Geological Survey (USGS) 7.5 Minute Series, Livermore, California Quadrangle Topographic Map, dated 2018, the site has an approximate elevation of approximately 410 feet above mean sea level (msl). Surface topography in the region generally slopes towards the west, with quarry ponds noted in the areas west and south of the site (USGS, 2018).

4.2 Geology

The site is located within the Coast Ranges Geomorphic Province, and within the Livermore Valley. The Coast Ranges ex-tend about 600 miles from the Oregon border to central coastal California. The Coast Ranges are northwest trending and are underlain by marine and non-marine sedimentary rocks. The Livermore Valley lies approximately 40 miles east of San Francisco and 30 miles southwest of Stockton, within the structural trough of the Diablo Range. The floor of the Livermore Valley consists of continental deposits from alluvial fans, outwash plains, and lakes which include valley-fill materials, the Livermore Formation, and the Tassajara Formation. The Plio-Pleistocene Livermore Formation is primarily exposed over the south and southwest regions of the Livermore Valley and occurs in most areas beneath the surface up to 400 feet below the ground surface (bgs), and can be up to 4,000 feet thick and consist of unconsolidated to semi-consolidated beds of gravel, sand, silt, and clay (DWR, 2006).

4.3 Oil and Gas Maps

Based on a review of the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Well Finder Database, the site does not lie in an active oil field and no oil or natural gas wells have been drilled on the site or adjacent properties (DOGGR, 2019).

4.4 Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

4.4.1 Surface Waters

No natural surface water bodies, including ponds, streams, or other natural bodies of water, are present on the site. The nearest water body to the site is the Arroyo

Mocho which is located along the southern and southeastern property boundary. The southeastern adjoining portion of the Arroyo Mocho was redirected when Isabel Avenue was constructed during the early 2000s. Other nearby water bodies include quarry ponds as a result of sand and gravel mining on the property adjoining west of the site.

4.4.2 Groundwater

Groundwater information was not readily available from regulatory agencies for the site. To obtain groundwater information regarding the site, Ardent reviewed the California State Water Resources Control Board (SWRCB) GeoTracker website.

The nearest listing with groundwater information was for Metro Valley Cleaners located at 224 Rickenbacker Circle in the city of Livermore. This facility is located approximately 0.8 mile north, crossgradient, and at similar elevation to the site. Based on a review of a groundwater monitoring report, depth to groundwater at this facility was reported to be approximately 27 feet with a westerly flow direction in December 2009 (AGE, 2010).

5 HISTORICAL LAND USE

Ardent conducted a historical record search for both the site and surrounding areas. This included a review of one or more of the following sources that were found to be both reasonably ascertainable and useful for the purposes of this Phase I ESA: historical aerial photographs, historical fire insurance maps, historical city directories, building permits and plans, topographic maps, property tax records, zoning/land use records, and a review of prior environmental assessment reports regarding the site. Copies of historical data are provided in Appendix C.

5.1 Summary of Historical Land Use of the Property

Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant land.

5.2 Summary of Historical Land Use of Adjoining Properties

The site vicinity consisted of vacant land until the 1970s when residential development began in the area east of the site. The sand and gravel quarry was visible on the property

adjoining west of the site by 2006. Construction of the commercial and industrial facilities adjoining north of the site began during the late 2000s.

5.3 Historical Aerial Photographs

Historical aerial photographs for selected years between 1940 and 2016 were reviewed. The following presents a summary of the review:

- **1940, 1949, 1958, 1966, and 1968** – The site and site vicinity consisted of vacant land or used for agricultural purposes. The Arroyo Mocho is visible along the southern property boundary, followed by vacant land, a railroad right-of-way, and Stanley Boulevard further south.
- **1979, 1982, 1993, and 1998** – The site continues to be vacant or used for agricultural purposes. Residential developments are noted in the area east of the site.
- **2006, 2009, 2012, and 2016** – The site continues to be vacant. By 2006, the sand and gravel quarry is noted on the property adjoining west of the site. The portion of the Arroyo Mocho that bounds the site to the southeast has been redirected beneath the newly constructed Isabel Avenue. The present-day warehouse, bus parking and maintenance facility, and industrial building adjoining north of the site were constructed by 2016.

5.4 Building Department

On May 23, 2019, Ardent staff visited the Alameda County Building Department and requested a search for permits that may be associated with the site. Based on a records search using the APNs associated with the site, no records were found.

5.5 City Directories

Ardent reviewed city directories obtained from EDR for the site and immediate site vicinity from 1920 to 2014. No listings were found for the site or adjoining properties.

5.6 Historical Topographic Maps

Historical topographic maps for the site were provided by EDR for review. The maps were dated between 1906 and 2012. No structures were noted on the site. Arroyo Mocho, the railroad right-of-way, and Stanley Boulevard have been located south of the site since 1906.

5.7 Interviews

Interviews were conducted by Ardent with key site personnel (e.g., past and present owners, operators, and/or occupants), with the objective of obtaining information indicating RECs in connection with the site. The following are the site personnel interviewed for

purposes of this assessment, and a summary of their comments with regards to site conditions.

5.7.1 Interview with Owner

Mr. Donald Kahler, President of Pleasanton Gravel Company and property owner representative was interviewed on May 23, 2019 during the site reconnaissance. According the Mr. Kahler, the property was originally purchased for the intent of aggregate mining, however, to-date no mining activities have been completed at the site. The site has previously been used as a pumpkin patch and is currently being dry farmed for hay used as animal feed. Mr. Kahler has no knowledge of the use or storage of hazardous materials, or other environmental issues.

5.7.2 Interview with Site Manager

No site manager was available to interview.

5.7.3 Interviews with Occupant

No occupants were available to interview.

5.7.4 Interviews with Local Government Officials

Representatives of local regulatory agencies were interviewed during completion of this report. The information obtained is presented throughout this report.

5.7.5 Interviews with Others

No further interviews were conducted by Ardent.

5.8 Previous Reports and Documents

As presented in 3.7, Ardent was provided a Biological Constraints Analysis. Ardent also obtained additional information pertaining to the site and site vicinity from the environmental database search further discussed below in Section 7.

6 SITE RECONNAISSANCE

The site and site vicinity reconnaissance was performed by Ardent on May 23, 2019. Access was provided by Mr. Donald Kahler. The site reconnaissance involved a tour of the site and visual observations of adjoining properties. At the time of the site reconnaissance, the weather was

sunny and warm; no weather related obstructions were noted. Selected photographs taken during these activities are included in Appendix A.

The site was vacant land that appeared to have been recently disked. No surface structures were noted. The following information is provided as per ASTM standards to summarize the current conditions at the site.

6.1 Use and Storage of Hazardous Substances and Petroleum Products

No use or storage of hazardous substances or petroleum products was noted at the site.

6.2 Storage and Disposal of Hazardous Wastes

No storage or disposal of hazardous wastes was noted at the site.

6.3 Unidentified Substance Containers

No unidentified substance containers were noted at the site.

6.4 Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs)

No ASTs or evidence of USTs (e.g. fill ports, vent pipes, or manhole covers) were noted at the site.

6.5 Evidence of Releases

No evidence of chemical releases on the site, such as odors, stressed vegetation, stains, leaks, pools of liquids, and spills, was observed at the site.

6.6 Polychlorinated Biphenyls (PCBs)

Historically, PCBs (a group of hazardous substances and suspected human carcinogens) were widely used as an additive in cooling oils for electrical components. Typical sources of PCBs can include electrical transformers and light ballasts. No electrical transformers were noted.

6.7 Suspect Asbestos-Containing Building Materials (ACMs)

The manufacture of most ACMs was phased out in the 1970s, ending in 1980. Previously manufactured ACMs that were in stock continued to be used through approximately 1981. Some non-friable ACMs are still manufactured (e.g. roofing mastics). In general, buildings constructed after 1981 have a negligible potential to contain friable ACMs and a low

potential for most non-friable ACMs, with the exception of roofing materials. Based on the lack of buildings at the site, ACMs are not likely present at the site.

6.8 Lead Based Paint (LBP)

The manufacture of LBP was phased out in approximately 1978. Based on the lack of buildings at the site, LBP is not likely present at the site.

6.9 Indications of Water Damage or Mold Growth

No visual indications of water damage or visible mold growth were present during the site reconnaissance.

6.10 Wastewater Systems

No wastewater systems were observed during the site reconnaissance.

6.11 Stormwater Systems

No stormwater systems were observed during the site reconnaissance.

6.12 Wells

No groundwater wells (i.e. monitoring, production, etc.) were noted or reportedly used at the site.

6.13 Other Subsurface Structures

No other subsurface structures, such as clarifiers, sumps, or pits were observed.

6.14 Other Issues

No other on or off-site issues of environmental concern were noted.

7 ENVIRONMENTAL DATABASE SEARCH

A computerized environmental information database search was performed by Environmental Data Resources (EDR) of Shelton, Connecticut for this Phase I ESA on May 20, 2019. The database search included federal, state, local, and tribal databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted facilities of environmental concern is presented in Appendix D. In addition, a description of the assumptions and approach to the database search is provided in Appendix D. The review was conducted to evaluate whether the site or properties within the vicinity of the site have been

reported as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

Two unmapped properties, due to poor or inadequate address information, were identified in the database report. However, based on the information provided for these properties, or the types of databases on which the properties are listed, there is a low likelihood that the environmental integrity of the site has been adversely impacted by these off-site sources.

The following paragraphs describe the databases that contain noted properties of environmental concern, and include a discussion of the regulatory status of the facilities and potential environmental impact to the site.

7.1 Federal National Priorities List (NPL): Distance Searched – 1 mile

The NPL is the USEPA's database of uncontrolled or abandoned hazardous waste properties identified for priority remedial actions under the Superfund program. This database includes proposed NPL listings.

Neither the site nor properties located within a one-mile radius were listed in this database.

7.2 Federal Delisted NPL: Distance Searched – 0.5 mile

This database contains delisted NPL properties under the Superfund program. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the USEPA uses to delete properties from the NPL. In accordance with 40 Code of Federal Regulations (CFR) 300.425. (e), properties may be deleted from the NPL where no further response is appropriate.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.3 Federal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List: Distance Searched – 0.5 mile

The CERCLIS database has been replaced by the Superfund Enterprise Management System (SEMS) database, which tracks hazardous waste sites and remedial activities performed in support of the EPA's Superfund Program. This database also includes properties listed on the SEMS-ARCHIVE database for facilities with statuses of No Further Remedial Action Planned (NFRAP).

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.4 Federal Corrective Action Report (CORRACTS): Distance Searched – 1 mile

The USEPA maintains this database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing corrective action. A corrective action order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.

Neither the site nor properties located within a one-mile radius were listed in this database.

7.5 Federal Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities List: Distance Searched – 0.5 mile

The RCRA TSD database (non-CORRACTS) is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste. Inclusion on this list is for permitting purposes and is not indicative of a release.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.6 Federal RCRA Generators List: Distance Searched – Site and Adjoining Properties

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on this list is for permitting purposes and is not indicative of a release.

The site was not listed in this database. “Tesla Motors Incorporated” adjoining north of the site is listed on this database as a result of generating hazardous wastes. No violations or evidence of a release were noted. Based on this information, this facility would not be considered a significant environmental concern to the site.

7.7 Federal Institutional Control/Engineering Control Registries: Distance Searched – Site

These lists identify properties with engineering and/or institutional controls. 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 affect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post

remediation care requirements intended to prevent exposure to contaminants remaining on the site. Deed restrictions are generally required as part of the institutional controls.

The site was not listed in this database.

7.8 Federal Emergency Response Notification System (ERNS) List: Distance Searched – Site

The ERNS database, maintained by the USEPA, contains information on reported releases of oil and hazardous substances.

The site was not listed in this database.

7.9 Federal Brownfield List: Distance Searched – 0.5 mile

The USEPA Brownfield database, entitled Targeted Brownfield's Assessments (TBA), lists properties for which the USEPA is providing funding and/or technical support for environmental assessments and investigations. The objective of the TBA is to promote cleanup and redevelopment of undesirable properties with environmental issues.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.10 State Calsites Database (Calsites) or State-Equivalent CERCLIS: Distance Searched – 1 mile

The Calsites database, also known as the State-equivalent CERCLIS, is maintained by the Cal-EPA Department of Toxic Substances Control (DTSC). This database contains information on AWP and both known and potentially contaminated properties. Two-thirds of these properties have been classified, based on available information, as needing no further action (NFA) by the DTSC. The remaining properties are in various stages of review and remediation to determine if a problem exists. These properties are presented by EDR on the EnviroStor databases.

The site was not listed in this database. One facility was listed within the search radius. "Granada High School" located one mile east of the site is listed in this database as a result of an asbestos investigation. Based on the type of listing and distance to the site, this facility would not be considered a significant environmental concern to the site.

7.11 State Solid Waste Landfill Sites (SWLF): Distance Searched – 0.5 mile

The SWLF database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Board's Solid Waste Information System (SWIS) and the SWRCB Waste Management Unit Database (WMUD) database.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.12 State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – 0.5 mile

The LUST information system is obtained from by the SWRCB and the RWQCB.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.13 State Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Registration List: Distance Searched – Site and Adjoining Properties

UST and AST databases are provided by the SWRCB. Inclusion on these lists is for permitting purposes and is not indicative of a release.

The site was not listed on this database. Two 10,000-gallon fuel USTs are located on the LAVTA facility adjoining north of the site. Based on the site reconnaissance and review of aerial photographs, the USTs are located greater than 250 feet north of the site boundary. This facility is reported to be regularly inspected by the Livermore-Pleasanton Fire Department. While several compliance violations are listed, no evidence of a release have been reported. Based on this information, the USTs would not be considered a significant environmental concern to the site.

7.14 State Voluntary Cleanup Programs (VCPs): Distance Searched – 0.5 mile

The State VCP database lists low threat level properties with either confirmed or unconfirmed releases. Project proponents have requested that the DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Neither the site nor properties located within a 0.5-mile radius were listed in this database.

7.15 Indian Reservations: Distance Searched – 1 mile

This list depicts Indian administered lands of the United States that have an area equal to or greater than 640 acres. No Indian Reservations were listed within a one-mile radius from the site. Due to the lack of Indian Reservations within one-mile of the site, other tribal database listings required by ASTM and AAI were deemed not applicable. These listings would include tribal-equivalent NPL, CERCLIS, Landfill and/or Solid Waste Disposal, LUST, UST and AST Registrations, Institutional Control/Engineering Control Registries, VCPs, and Brownfields.

7.16 Other Non-ASTM and AAI Database: Distance Searched – Site

Other databases were included in the EDR Report, but are not required by ASTM or AAI. The site was not listed on these databases.

8 VAPOR ENCROACHMENT CONDITION (VEC)

Ardent completed a VEC study for the site using Tier 1 criteria as recommended by ASTM E 2600-15. The Tier 1 screening identifies surrounding facilities that pose a possible vapor intrusion source to the site based on the results of the Phase I ESA investigations and certain criteria outlined by ASTM. These criteria include a certain distance from the target site (referred to by ASTM as within the "area of concern"); the types of chemicals used (referred to by ASTM as the "chemicals of concern"); and a plume test to determine if the plume associated with a source of contamination is close enough to the site to impact indoor air quality. A VEC is defined by ASTM as *"…the presence or likely presence of chemicals of concern vapors in the vadose zone of the target property caused by the release of vapors from contaminated soil and/or groundwater either on or near the target property identified by the Phase I ESA."* Based on our review of information obtained during the completion of this Phase I ESA, a VEC does not exist at the site.

9 REGULATORY RECORDS REVIEW

The RWQCB, DTSC, Alameda County Fire Department (ACFD), and Alameda County Environmental Health (ACEH) are the lead regulatory agencies for permitting and regulating USTs, ASTs, LUST cases, and/or facilities that use, store, or generate hazardous waste or hazardous materials. Ardent requested or reviewed information regarding possible records for the site using the site APNs or map of the property.

9.1 Regional Water Quality Control Board, San Francisco Bay Region (RWQCB)

Ardent researched information on the SWRCB GeoTracker website. The site is not listed on the database.

9.2 Department of Toxic Substances Control (DTSC)

Ardent researched information regarding the site on the DTSC's EnviroStor and Hazardous Waste Tracking System (HWTS) databases. The site is not listed on EnviroStor.

9.3 Alameda County Fire Department (ACFD)

Records regarding the site were requested from the ACFD. According to the ACFD, an address is required to complete a records search. Since there is no evidence of past or present development at the site, it is unlikely that records pertaining to the site exist.

9.4 Alameda County Department of Environmental Health (ACDEH)

The ACDEH maintains records regarding industrial waste. According to the ACDEH, an address is required to complete a records search. Since there is no evidence of past or present development at the site, it is unlikely that records pertaining to the site exist.

10 FINDINGS, OPINIONS AND CONCLUSIONS

Based upon the results of this Phase I ESA the following findings, opinions and conclusions are provided.

10.1 Findings and Opinions

The following presents a summary of findings associated with this Phase I ESA performed for the subject property, including known or suspect RECs, HRECs, CRECs, and other environmental considerations (i.e. de minimis environmental conditions or conditions that generally do not present a material risk of harm to public health or the environment).

- Since at least 1906, the site has been vacant or used for agricultural purposes. Currently, the site is vacant. The site vicinity consisted of vacant land until the 1970s when residential development began in the area east of the site. A sand and gravel quarry was noted on the property adjoining west of the site by 2006. Construction of the commercial and industrial facilities adjoining north of the site began during the late 2000s and completed by 2016.
- Groundwater beneath the site is estimated to be approximately 27 feet bgs with a westerly flow direction.
- No other on or off-site environmental concerns were noted.

10.2 Conclusions

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the ASTM Practice E1527-13, ASTM Practice E2600-15, and the EPA Standards and Practices for AAI, Final Rule (40 CFR, Part 312), for the property located northwest of the Stanley Boulevard and Isabel Avenue intersection in an unincorporated area of Alameda County, California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on the information received to date, no evidence or indication of RECs, HRECs, CRECs, or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject property has been revealed.

11 RECOMMENDATIONS

Based on the information obtained during this assessment, Ardent recommends no further work at this time.

12 SELECTED REFERENCES

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), 2019, Well Finder online database, reviewed June 6.

Advanced GeoEnvironmental, Inc. (AGE), 2010, Annual Ground Water Monitoring Report – December 2009, Metro Valley Cleaners, 224 Rickenbacker Circle, Livermore, California, report prepared for Mr. Robert Strong, Metro Valley Cleaners, dated April 19.

California Department of Water Resources (DWR), 2006, Bulletin No. 118-2, Evaluation of Groundwater Resources: Livermore Valley Groundwater Basin.

Environmental Data Resources, Inc. (EDR), 2019, Regulatory Database Report, dated May 20.

Kanen, Montana, 2019, Overton Moore Properties, email correspondence.

Monk & Associates LLC (M&A), Biological Constrains Analysis, Proposed Quarry Project, Lake K (71-Acre) Property, Alameda County, California, report prepared for Rhodes & Jamieson LLC, Pleasanton, California, dated July 8.

United States Geological Survey, 2018, Livermore, California Quadrangle 7.5-Minute Series Topographic Map.

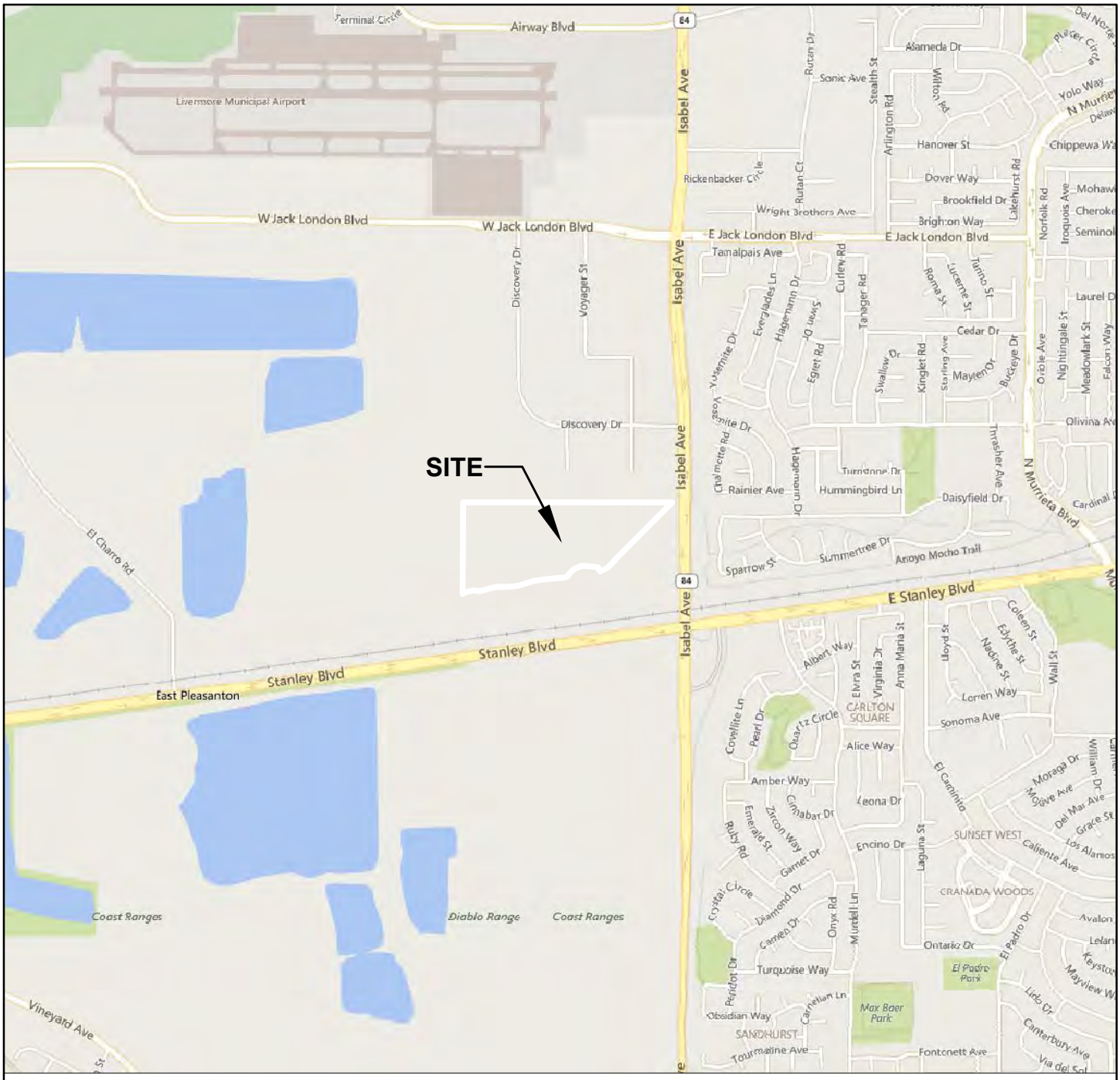
13 QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Mr. Dennis Kawasaki states that the Phase I ESA was performed under his direct supervision, and that he has reviewed and approved the report, and the methods and procedures employed in the development of the report conform to the minimum industry standards. Mr. Kawasaki certifies that Ardent project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

Pursuant to Paragraph 12.13 of the ASTM Standard E1527-13:

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR §312. I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Dennis Kawasaki
Senior Project Scientist



N

Approximate Scale, in feet

0 900 1,800

NOTES:

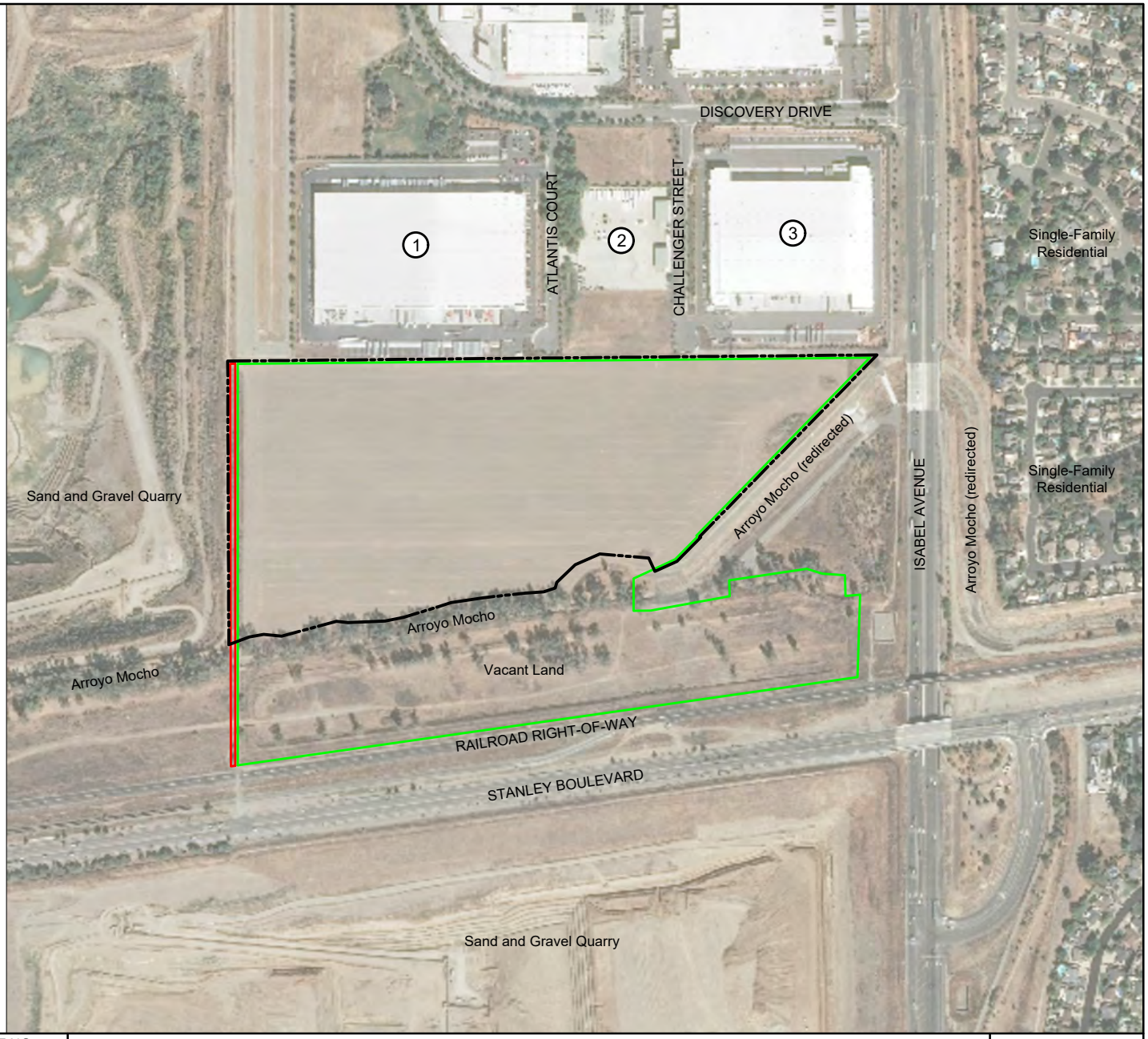
1) Base Map Source: Bing Maps, Microsoft Corporation, 2019.

2) Dimensions, directions and locations are approximate.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **101110001**	SITE LOCATION MAP	FIGURE **1**
	DATE **06/19**	NORTHWEST OF STANLEY BOULEVARD AND ISABEL AVENUE ALAMEDA COUNTY, CALIFORNIA	

LEGEND

- Approximate Property Boundary
- APN — Assessor's Parcel Number
- Approximate Boundary of APN 904-0010-002-02
- Approximate Boundary of APN 904-0010-007-00
- (1) 800 Atlantis Court, Livermore Commercial Warehouse Building Occupied by Tesla, Inc.
- (2) 875 Atlantis Court, Livermore Bus Parking and Maintenace Facility Occupied by Livermore Amador Valley Transit Authority (LAVTA)
- (3) 801 Challenger Street, Livermore Industrial Building Occupied by Draexlmaier Group



NOTES:

1) Base Map Source: Bing Maps, Microsoft Corporation, 2019.
2) Dimensions, directions and locations are approximate.

N

Approximate Scale, in feet

0 300 600

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	SITE VICINITY MAP	FIGURE
101110001		2
DATE 06/19	NORTHWEST OF STANLEY BOULEVARD AND ISABEL AVENUE ALAMEDA COUNTY, CALIFORNIA	

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1: Facing west. View of the site from the northeastern portion of the site.

Photograph No. 2: Facing south. View of the site from the north-central portion of the site.

Photograph No. 3: Facing northeast. View of the site from the southwest corner of the site.

Photograph No. 4: Facing southwest. View along the southeastern property boundary. The redirected portion of Arroyo Mocho visible on left side of photograph and site on the right side of photograph.

Photograph No. 5: Facing west. View along northern property boundary from the northeast corner of the site.

Photograph No. 6: Facing east. View of site from the northwest corner of the site. Adjoining commercial warehouse building occupied by Tesla, Inc. on left side of photograph.

Photograph No. 7: Facing south. View along the western property boundary from the northwest corner of the site.

Photograph No. 8: Facing north. View of the industrial building occupied by Draexlmaier Group adjoining north of the site.

Photograph No. 9: Facing west. Gravel and sand quarry adjoining west of the site.

Photograph No. 10: Facing west. View of Arroyo Mocho along the southern property boundary.

APPENDIX B

USER PROVIDED INFORMATION

Chicago Title Company

2150 John Glenn Dr, Suite 400, , Concord, CA 94520
Phone: (925) 288-8000 ● Fax: (510) 465-0738

Issuing Policies of Chicago Title Insurance Company

Order No.: 36301446-363-LB-KD

TO:

Colliers International
3825 Hopyard Rd., Suite 195
Pleasanton, CA 94588

ATTN: .**Mike Lloyd**
YOUR REFERENCE:

Title Officer: Kevin Davis

Escrow Officer: Laurie Balding-Smith
1676 N. California Blvd., Suite 117
Walnut Creek, CA 94596
(925) 288-8300
(925) 287-8007

PROPERTY ADDRESS: **Vacant Land APN 904-0010-002-02 and 904-0010-007-00, Livermore, CA**

PRELIMINARY REPORT/AMENDED-B

In response to the application for a policy of title insurance referenced herein, ***Chicago Title Company*** *hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Florida Corporation.

Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.

Chicago Title Company

By: _____
Authorized Signature

By: _____
Randy Quirk, President

Attest: _____
Michael Graveille, Secretary

Chicago Title Company

2150 John Glenn Dr, Suite 400, , Concord, CA 94520
Phone: (925) 288-8000 ● Fax: (510) 465-0738

PRELIMINARY REPORT

EFFECTIVE DATE: **March 28, 2019 at 7:30 a.m.**

ORDER NO.: 36301446-363-LB-KD

The form of policy or policies of title insurance contemplated by this report is:

CLTA Standard Coverage Policy (04-08-14)
ALTA Extended Loan Policy (6-17-06)

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

   A Fee

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

   SMP-40, LLC, a California limited liability company

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

   See Exhibit A attached hereto and made a part hereof.

EXHIBIT A

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN AN UNINCORPORATED AREA, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL A:

A PORTION OF PLOT 10 OF THE BERNAL PORTION OF RANCHO EL VALLE DE SAN JOSE, AS SHOWN ON THE MAP ACCOMPANYING THE REPORT OF THE REFEREE IN THE ACTION FOR PARTITION OF SAID RANCHO THIRD DISTRICT COURT OF ALAMEDA COUNTY, CASE NO. 1723, LYING NORTHERLY OF THE RIGHT OF WAY OF THE WESTERN PACIFIC RAILROAD, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE LINE DIVIDING PLOTS 10 AND 20 OF THE BERNAL PORTION OF RANCHO EL VALLE DE SAN JOSE, WITH THE NORTHERN LINE OF THE RIGHT OF WAY OF THE WESTERN PACIFIC RAILROAD; THENCE SOUTH 82° 02' WEST ALONG SAID NORTHERN LINE OF SAID RIGHT OF WAY 2636.70 (39.95 CHAINS); THENCE NORTH 0° 01' WEST 1578.06 (23.91 CHAINS) TO THE LINE DIVIDING PLOTS 10 AND 11 OF SAID RANCHO; THENCE NORTH 89° 38' EAST ALONG SAID DIVIDING LINE 2612.28 (39.58 CHAINS) TO THE WESTERN LINE OF PLOT 20 OF SAID RANCHO; AND THENCE SOUTH 0° 06' EAST ALONG THE LINE DIVIDING SAID PLOTS 10 AND 20, A DISTANCE OF 1230.24 (18.64) CHAINS TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION OF THE ABOVE DESCRIBED PROPERTY LYING WITHIN THE LINES OF A 30 FOOT STRIP ALONG THE WESTERN LINE OF SAID PLOT 10 AS DESCRIBED IN THE DEED TO MAAS LUDERS, RECORDED JANUARY 4, 1888, BOOK 339, DEEDS, PAGE 338.

ALSO EXCEPTING THEREFROM ALL THAT PORTION DESCRIBED IN THAT CERTAIN DOCUMENT ENTITLED "FINAL ORDER IN EMINENT DOMAIN", RECORDED AUGUST 7, 2001, AS INSTRUMENT NO. 2001287044, OF OFFICIAL RECORDS.

APN: 904-0010-002-02

PARCEL B:

REAL PROPERTY IN THE CITY OF LIVERMORE, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, BEING A PORTION OR PARCEL A OF PARCEL MAP 3750 FILED FEBRUARY 10, 1982, IN BOOK 131 OF PARCEL MAPS, PAGES 86-87, SERIES NO. 882-020636, RECORDS OF ALAMEDA COUNTY, CALIFORNIA, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EAST LINE OF PLOT 8 COMMON WITH THE SOUTHWEST CORNER OF PLOT 11 AND THE NORTHWEST COMER OF PLOT 10 OF THE BERNAL PORTION OF THE RANCHO EL VALLE DE SAN JOSE, AS SAID POINT IS SHOWN ON AFORESAID PARCEL MAP 3750 (82-020636); THENCE ALONG THE SOUTH LINE OF PLOT 11 SOUTH 89° 25' 04" EAST, 30.000 FEET; THENCE LEAVING SAID SOUTH LINE OF PLOT 11 SOUTH 0° 56' 07" WEST, 1577.369 FEET TO A POINT ON THE NORTHERLY LINE OF THE WESTERN PACIFIC RAILROAD RIGHT OF WAY; THENCE ALONG SAID WESTERN PACIFIC RAILROAD RIGHT OF WAY SOUTH 83° 01' 37" WEST, 30.288 FEET TO A POINT ON THE EAST LINE OF AFORESAID PLOT 8 OF THE BERNAL PORTION OF THE RANCHO E! VALLE DE SAN JOSE; THENCE ALONG SAID EAST LINE OF PLOT 8 NORTH 0° 56' 07" EAST, 1581.351 FEET TO THE POINT OF BEGINNING.

BEING PARCEL B OF PARCEL MAP 5605, FILED SEPTEMBER 21,1989, MAP BOOK 187, PAGES 29 AND 30, ALAMEDA COUNTY RECORDS.

APN: 904-0010-007-00

EXHIBIT A
(Continued)

EXCEPTIONS

AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:

1. Property taxes, which are a lien not yet due and payable, including any assessments collected with taxes to be levied for the fiscal year 2019-2020.

2. Prior to close of escrow, please contact the Tax Collector's Office to confirm all amounts owing, including current fiscal year taxes, supplemental taxes, escaped assessments and any delinquencies.

3. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

4. Water rights, claims or title to water, whether or not disclosed by the public records.

5. Any adverse claim based upon the assertion that:

   a) Some portion of said Land has been created by artificial means, or has accreted to such portion so created.
   b) Some portion of said Land has been brought within the boundaries thereof by an avulsive movement of Arroyo Mocho or has been formed by accretion to any such portion.

6. Rights and easements for navigation and fishery which may exist over that portion of said Land lying beneath the waters of Arroyo Mocho.

7. Any rights in favor of the public which may exist on said Land if said Land or portions thereof are or were at any time used by the public.

8. Intentionally deleted

9. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Pacific Gas and Electric Company, a California Corporation
Purpose:	Pole line
Recording Date:	March 27, 1912
Recording No:	Book 2054, Page 207, of Deeds
Affects:	A portion of the Westerly 30 feet of Parcel Two and as shown on Parcel map 3750, Filed February 10, 1982, Book 131, Page 86, of Parcel Maps

10. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Edwin E. Hagemann and Herbert L. Hagemann
Purpose:	Private Street and Road
Recording Date:	August 14, 1936
Recording No:	Book 3356, Page 316, of Official Records
Affects:	Western 30 feet of Parcel Two and as shown on Parcel Map 3750, Filed February 10, 1982, Book 131, Page 86, of Parcel Maps

EXCEPTIONS
(Continued)

11. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Edwin E. Hagemann
Purpose:	Private Street and Road
Recording Date:	August 14, 1936
Recording No:	Book 3344, Page 400, of Official Records
Affects:	Western 30 feet of Parcel Two, and as shown on Parcel Map 3750, Filed February 10, 1982, Book 131, Page 86, of Parcel Maps

12. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Pacific Gas and Electric Company, a California corporation
Purpose:	Electric transmission lines
Recording Date:	March 2, 1938
Recording No:	Book 3578, Page 366, of Official Records
Affects:	A portion of Parcel One

Reference is hereby made to said document for full particulars.

13. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Pacific Gas and Electric Company, a California corporation
Purpose:	Gas conveyance facilities
Recording Date:	June 14, 1944
Recording No:	Book 4576, Page 23, of Official Records
Affects:	A portion of Parcel One

By that certain Quitclaim Deed recorded June 30, 2003, as Instrument No. 2003381041, of Official Records, Pacific Gas and Electric Company, a California corporation conveyed its interest to the City of Livermore.

Reference is hereby made to said document for full particulars.

14. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	City of Livermore, a municipal corporation
Purpose:	Construction, maintenance and repair of a sanitary sewer system
Recording Date:	July 21, 1967
Recording No:	Reel 2004, Image 662, of Official Records
Affects:	A portion of Parcel One

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

15. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	City of Livermore, a municipal corporation
Purpose:	Construction, maintenance and repair of a sanitary sewer system
Recording Date:	February 9, 1968
Recording No:	Reel 2123, Image 922, of Official Records
Affects:	A portion of Parcel One

Reference is hereby made to said document for full particulars.

16. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	The Pacific Telephone and Telegraph Company
Purpose:	Electrical and communication facilities
Recording Date:	August 3, 1972
Recording No:	Reel 3198, Image 10, of Official Records
Affects:	A portion of Parcel One

As modified by instrument recorded October 17, 1974, in Reel 3797, Image 518, of Official Records.

Reference is hereby made to said documents for full particulars.

17. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the map of said tract/plat;

Purpose:	Non-Buildable Lot
Affects:	All that portion of Parcel Two, as shown on Parcel Map 5605, Filed September 21, 1989, in Book 187, Page 29, of Parcel Maps

18. Matters contained in that certain document

Entitled:	Memorandum of Settlement Agreement
Dated:	June 1, 1989
Executed by:	Orchard Livermore Associates, a California general partnership and Pleasanton Gravel Company, a California Corporation and G.W. Jamieson
Recording Date:	June 5, 1990
Recording No:	90-004861, of Official Records

Reference is hereby made to said document for full particulars.

Affects: Parcel Two

19. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to:	Orchard Livermore Associates, a California General Partnership
Purpose:	Emergency access and storm drain
Recording Date:	June 5, 1990
Recording No:	90-004865, of Official Records
Affects:	Portion of Parcel Two

EXCEPTIONS
(Continued)

20. Easement(s) for the purpose(s) shown below and rights incidental thereto as reserved in a document;

Reserved by:	Orchard Livermore Associates, a California General Partnership
Purpose:	Underground storm drain
Recording Date:	June 5, 1990
Recording No:	90-004867, of Official Records
Affects:	A 15 foot portion of Parcel Two

21. Easement(s) for the purpose(s) shown below and rights incidental thereto as condemned by an instrument,

Entitled:	Final Order of Condemnation (Eminent Domain)
Court:	Superior Court of the State of California, County of Alameda
Case No.:	RG14734901
In favor of:	Alameda County Transportation Commission
Purpose:	a) Permanent Ingress and Egress Easement and b) Temporary Construction Easements
Recording Date:	March 15, 2018
Recording No:	2018052727, of Official Records
Affects:	Portions of Parcel One

Reference is hereby made to said document for full particulars.

EXCEPTIONS
(Continued)

22. The search did not disclose any open mortgages or deeds of trust of record, therefore the Company reserves the right to require further evidence to confirm that the property is unencumbered, and further reserves the right to make additional requirements or add additional items or exceptions upon receipt of the requested evidence.

23. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from the entity named below:

Limited Liability Company: SMP-40 LLC

a) A copy of its operating agreement, if any, and all amendments, supplements and/or modifications thereto, certified by the appropriate manager or member.

b) If a domestic Limited Liability Company, a copy of its Articles of Organization and all amendments thereto with the appropriate filing stamps.

c) If the Limited Liability Company is member-managed, a full and complete current list of members certified by the appropriate manager or member.

d) A current dated certificate of good standing from the proper governmental authority of the state in which the entity is currently domiciled.

e) If less than all members, or managers, as appropriate, will be executing the closing documents, furnish evidence of the authority of those signing.

f) If Limited Liability Company is a Single Member Entity, a Statement of Information for the Single Member will be required.

g) Each member and manager of the LLC without an Operating Agreement must execute in the presence of a notary public the Certificate of California LLC (Without an Operating Agreement) Status and Authority form.

24. The Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance by the corporation named below:

Name of Corporation: Overton Moore Properties/South Gate, LLC, an inquiry of the Secretary of States Office in Sacramento shows this LLC as “Cancelled” prior to the Close of Escrow, Written Documentation showing this entity as being “Active” needs to be provided to this company

a) A Copy of the corporation By-laws and Articles of Incorporation

b) An original or certified copy of a resolution authorizing the transaction contemplated herein

c) If the Articles and/or By-laws require approval by a ‘parent’ organization, a copy of the Articles and By-laws of the parent

The Company reserves the right to add additional items or make further requirements after review of the requested documentation.

EXCEPTIONS
(Continued)

25. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other matters which a correct survey would disclose and which are not shown by the public records.

26. If extended coverage title insurance will be requested, or if this report has been issued to facilitate a request for extended coverage title insurance, then the following would also be exceptions to coverage:

    Any facts, rights, interests or claims which are not disclosed by the public records but which could be ascertained by making inquiry of the parties or persons in possession of the herein described land.

    Any easements, liens (including but not limited to any Statutory Liens for labor or materials arising from any on-going or recently completed works of improvement), encumbrances, facts, rights, interest or claims which are not shown by the public records but which could be ascertained by an inspection of the herein described land.

    Discrepancies, conflicts in boundary lines, shortages in area, encroachments or any other facts which a correct survey of the herein described land would disclose which are not shown by the public records and the requirement that said survey meets with the minimum standards for ALTA/NSPS land title surveys.

27. The Company will require that an Owner's Affidavit be completed by the party(s) named below before the issuance of any policy of title insurance.

    Party(s): SMP-40, LLC, a California limited liability company

    The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit.

28. The transaction contemplated in connection with this Report is subject to the review and approval of the Company's Corporate Underwriting Department. The Company reserves the right to add additional items or make further requirements after such review.

END OF EXCEPTIONS

NOTES

1. None of the items shown in this report will cause the Company to decline to attach ALTA Endorsement Form 9 to an Extended Coverage Loan Policy, when issued.

2. Note: The name(s) of the proposed insured(s) furnished with this application for title insurance is/are:

   Name(s) furnished: Overton Moore Properties

   If these name(s) are incorrect, incomplete or misspelled, please notify the Company.

3. Note: The only conveyance(s) affecting said Land, which recorded within 24 months of the date of this report, are as follows:

Grantor:	Pleasanton Gravel Co., a California Corporation who acquire title as Pleasanton Gravel Co., Inc., a California Corporation
Grantee:	Pleasanton Gravel Co., Inc., a California Corporation
Recording Date:	October 10, 2018
Recording No:	2018196924, of Official Records

Grantor:	Pleasanton Gravel Co., Inc., a California Corporation
Grantee:	SMP-40, LLC, a California limited liability company
Recording Date:	October 15, 2018
Recording No:	2018200199, of Official Records

4. Note: Property taxes for the fiscal year shown below are PAID. For proration purposes the amounts were:

Tax Identification No.:	904-0010-002-02
Fiscal Year:	2018-2019
1st Installment:	$4,042.33
2nd Installment:	$4,042.33
Land:	$675,031.00
Code Area:	64-005
Bill No.:	42508300

   Affects: Parcel One

5. Note: Property taxes for the fiscal year shown below are PAID. For proration purposes the amounts were:

Tax Identification No.:	904-0010-007-00
Fiscal Year:	2018-2019
1st Installment:	$1,174.09
2nd Installment:	$1,174.09
Land:	$176,565.00
Code Area:	64-005
Bill No.:	42509000

   Affects: Parcel Two

NOTES
(Continued)

6. Note: The charge for a policy of title insurance, when issued through this title order, will be based on the Basic Title Insurance Rate.

7. The application for title insurance was placed by reference to only a street address or tax identification number. The proposed Insured must confirm that the legal description in this report covers the parcel(s) of Land requested to be insured. If the legal description is incorrect, the proposed Insured must notify the Company and/or the settlement company in order to prevent errors and to be certain that the legal description for the intended parcel(s) of Land will appear on any documents to be recorded in connection with this transaction and on the policy of title insurance.

8. Note: If a county recorder, title insurance company, escrow company, real estate broker, real estate agent or association provides a copy of a declaration, governing document or deed to any person, California law requires that the document provided shall include a statement regarding any unlawful restrictions. Said statement is to be in at least 14-point bold face type and may be stamped on the first page of any document provided or included as a cover page attached to the requested document. Should a party to this transaction request a copy of any document reported herein that fits this category, the statement is to be included in the manner described.

9. Note: Any documents being executed in conjunction with this transaction must be signed in the presence of an authorized Company employee, an authorized employee of an agent, an authorized employee of the insured lender, or by using Bancserv or other approved third-party service. If the above requirement cannot be met, please call the Company at the number provided in this report.

10. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

11. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

12. Pursuant to Government Code Section 27388.1, as amended and effective as of 1-1-2018, a Documentary Transfer Tax (DTT) Affidavit may be required to be completed and submitted with each document when DTT is being paid or when an exemption is being claimed from paying the tax. If a governmental agency is a party to the document, the form will not be required. DTT Affidavits may be available at a Tax Assessor-County Clerk-Recorder.

13. Due to the special requirements of SB 50 (California Public Resources Code Section 8560 et seq.), any transaction that includes the conveyance of title by an agency of the United States must be approved in advance by the Company's State Counsel, Regional Counsel, or one of their designees.

END OF NOTES

Kevin Davis/cl

Wire Fraud Alert

This Notice is not intended to provide legal or professional advice. If you have any questions, please consult with a lawyer.

All parties to a real estate transaction are targets for wire fraud and many have lost hundreds of thousands of dollars because they simply relied on the wire instructions received via email, without further verification. **If funds are to be wired in conjunction with this real estate transaction, we strongly recommend verbal verification of wire instructions through a known, trusted phone number prior to sending funds.**

In addition, the following non-exclusive self-protection strategies are recommended to minimize exposure to possible wire fraud.

- **NEVER RELY** on emails purporting to change wire instructions. Parties to a transaction rarely change wire instructions in the course of a transaction.
- **ALWAYS VERIFY** wire instructions, specifically the ABA routing number and account number, by calling the party who sent the instructions to you. DO NOT use the phone number provided in the email containing the instructions, use phone numbers you have called before or can otherwise verify. **Obtain the phone number of relevant parties to the transaction as soon as an escrow account is opened**. DO NOT send an email to verify as the email address may be incorrect or the email may be intercepted by the fraudster.
- **USE COMPLEX EMAIL PASSWORDS** that employ a combination of mixed case, numbers, and symbols. Make your passwords greater than eight (8) characters. Also, change your password often and do NOT reuse the same password for other online accounts.
- **USE MULTI-FACTOR AUTHENTICATION** for email accounts. Your email provider or IT staff may have specific instructions on how to implement this feature.

For more information on wire-fraud scams or to report an incident, please refer to the following links:

Federal Bureau of Investigation:
http://www.fbi.gov

Internet Crime Complaint Center:
http://www.ic3.gov

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FIDELITY NATIONAL FINANCIAL, INC.
PRIVACY NOTICE

Fidelity National Financial, Inc. and its majority-owned subsidiary companies (collectively, "FNF," "our," or "we") respect and are committed to protecting your privacy. This Privacy Notice explains how we collect, use, and protect personal information, when and to whom we disclose such information, and the choices you have about the use and disclosure of that information.

Types of Information Collected
We may collect two types of information from you: Personal Information and Browsing Information.

Personal Information. FNF may collect the following categories of Personal Information:
- contact information (*e.g.,* name, address, phone number, email address);
- demographic information (*e.g.,* date of birth, gender, marital status);
- identity information (*e.g.,* Social Security Number, driver's license, passport, or other government ID number);
- financial account information (*e.g.,* loan or bank account information); and
- other personal information necessary to provide products or services to you.

Browsing Information. FNF may automatically collect the following types of Browsing Information when you access an FNF website, online service, or application (each an "FNF Website") from your Internet browser, computer, and/or mobile device:
- Internet Protocol (IP) address and operating system;
- browser version, language, and type;
- domain name system requests; and
- browsing history on the FNF Website, such as date and time of your visit to the FNF Website and visits to the pages within the FNF Website

How Personal Information is Collected
We may collect Personal Information about you from:
- information we receive from you on applications or other forms;
- information about your transactions with FNF, our affiliates, or others; and
- information we receive from consumer reporting agencies and/or governmental entities, either directly from these entities or through others.

How Browsing Information is Collected
If you visit or use an FNF Website, Browsing Information may be collected during your visit. Like most websites, our servers automatically log each visitor to the FNF Website and may collect the Browsing Information described above. We use Browsing Information for system administration, troubleshooting, fraud investigation, and to improve our websites. Browsing Information generally does not reveal anything personal about you, though if you have created a user account for an FNF Website and are logged into that account, the FNF Website may be able to link certain browsing activity to your user account.

Other Online Specifics
Cookies. When you visit an FNF Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. Information gathered using cookies helps us improve your user experience. For example, a cookie can help the website load properly or can customize the display page based on your browser type and user preferences. You can choose whether or not to accept cookies by changing your Internet browser settings. Be aware that doing so may impair or limit some functionality of the FNF Website.

Web Beacons. We use web beacons to determine when and how many times a page has been viewed. This information is used to improve our websites.

Do Not Track. Currently our FNF Websites do not respond to "Do Not Track" features enabled through your browser.

Links to Other Sites. FNF Websites may contain links to other websites. FNF is not responsible for the privacy practices or the content of any of those other websites. We advise you to read the privacy policy of every website you visit.

Use of Personal Information
FNF uses Personal Information for three main purposes:
- To provide products and services to you or in connection with a transaction involving you.
- To improve our products and services.
- To communicate with you about our, our affiliates', and third parties' products and services, jointly or independently.

When Information Is Disclosed
We may make disclosures of your Personal Information and Browsing Information in the following circumstances:
- to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to nonaffiliated service providers who provide or perform services or functions on our behalf and who agree to use the information only to provide such services or functions;
- to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to jointly market financial products or services to you;

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- to law enforcement or authorities in connection with an investigation, or in response to a subpoena or court order; or
- in the good-faith belief that such disclosure is necessary to comply with legal process or applicable laws, or to protect the rights, property, or safety of FNF, its customers, or the public.

The law does not require your prior authorization and does not allow you to restrict the disclosures described above. Additionally, we may disclose your information to third parties for whom you have given us authorization or consent to make such disclosure. We do not otherwise share your Personal Information or Browsing Information with nonaffiliated third parties, except as required or permitted by law.

We reserve the right to transfer your Personal Information, Browsing Information, and any other information, in connection with the sale or other disposition of all or part of the FNF business and/or assets, or in the event of bankruptcy, reorganization, insolvency, receivership, or an assignment for the benefit of creditors. By submitting Personal Information and/or Browsing Information to FNF, you expressly agree and consent to the use and/or transfer of the foregoing information in connection with any of the above described proceedings.

Please see "**Choices With Your Information**" to learn the disclosures you can restrict.

Security of Your Information
We maintain physical, electronic, and procedural safeguards to guard your Personal Information. We limit access to nonpublic personal information about you to employees who need to know that information to do their job. When we provide Personal Information to others as discussed in this Privacy Notice, we expect that they process such information in compliance with our Privacy Notice and in compliance with applicable privacy laws.

Choices With Your Information
If you do not want FNF to share your information with our affiliates to directly market to you, you may send an "opt out" request by email, phone, or physical mail as directed at the end of this Privacy Notice. We do not share your Personal Information with nonaffiliates for their use to direct market to you.

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you.

For California Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties, except as permitted by California law.

For Nevada Residents: You may be placed on our internal Do Not Call List by calling (888) 934-3354 or by contacting us via the information set forth at the end of this Privacy Notice. Nevada law requires that we also provide you with the following contact information: Bureau of Consumer Protection, Office of the Nevada Attorney General, 555 E. Washington St., Suite 3900, Las Vegas, NV 89101; Phone number: (702) 486-3132; email: BCPINFO@ag.state.nv.us.

For Oregon Residents: We will not share your Personal Information and Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not share information about your creditworthiness to our affiliates and will not disclose your personal information, financial information, credit report, or health information to nonaffiliated third parties to market to you, other than as permitted by Vermont law, unless you authorize us to make those disclosures.

Information From Children
The FNF Websites are meant for adults and are not intended or designed to attract persons under the age of eighteen (18).We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian.

International Users
FNF's headquarters is located within the United States. If you reside outside the United States and choose to provide Personal Information or Browsing Information to us, please note that we may transfer that information outside of your country of residence for any of the purposes described in this Privacy Notice. By providing FNF with your Personal Information and/or Browsing Information, you consent to our collection, transfer, and use of such information in accordance with this Privacy Notice.

FNF Website Services for Mortgage Loans
Certain FNF companies provide services to mortgage loan servicers, including hosting websites that collect customer information on behalf of mortgage loan servicers (the "Service Websites"). The Service Websites may contain links to both this Privacy Notice and the mortgage loan servicer or lender's privacy notice. The sections of this Privacy Notice titled When Information is Disclosed, Choices with Your Information, and Accessing and Correcting Information do not apply to the Service Websites. The mortgage loan servicer or lender's privacy notice governs use, disclosure, and access to your Personal Information. FNF does not share Personal Information collected through the Service Websites, except (1) as required or authorized by contract with the mortgage loan servicer or lender, or

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(2) as required by law or in the good-faith belief that such disclosure is necessary to comply with a legal process or applicable law, to enforce this Privacy Notice, or to protect the rights, property, or safety of FNF or the public.

Your Consent To This Privacy Notice; Notice Changes
By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information in accordance with this Privacy Notice. We may change this Privacy Notice at any time. The revised Privacy Notice, showing the new revision date, will be posted on the FNF Website. Each time you provide information to us following any amendment of this Privacy Notice, your provision of information to us will signify your assent to and acceptance of the terms of the revised Privacy Notice for all previously collected information and information collected from you in the future. We may use comments, information or feedback that you submit to us in any manner that we may choose without notice or compensation to you.

Accessing and Correcting Information; Contact Us
If you have questions, would like to access or correct your Personal Information, or want to opt-out of information sharing for affiliate marketing, send your requests via email to privacy@fnf.com, by phone to (888) 934-3354, or by mail to:

Fidelity National Financial, Inc.
601 Riverside Avenue
Jacksonville, Florida 32204
Attn: Chief Privacy Officer

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Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

FNF Underwritten Title Company
FNTC - Chicago Title Company
FNTCCA –Fidelity National Title Company of California

FNF Underwriter
CTIC - Chicago Title Insurance Company

Available Discounts

CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)
Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 or 36 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge.

DISASTER LOANS (CTIC)
The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)
On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

ATTACHMENT ONE

CALIFORNIA LAND TITLE ASSOCIATION
STANDARD COVERAGE POLICY – 1990

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and

f. environmental protection.

This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less)	$ 5,000.00

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
      (i) the occupancy, use, or enjoyment of the Land;
      (ii) the character, dimensions, or location of any improvement erected on the Land;
      (iii) the subdivision of land; or
      (iv) environmental protection;

      or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

(Except as provided in Schedule B - Part II,(t(or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
      (i) the occupancy, use, or enjoyment of the Land;
      (ii) the character, dimensions, or location of any improvement erected on the Land;
      (iii) the subdivision of land; or
      (iv) environmental protection;
      or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
USER QUESTIONNAIRE

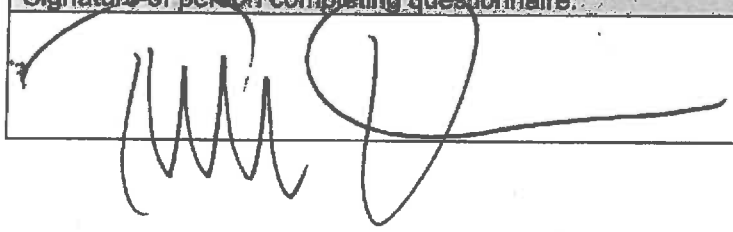
In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user of the Phase I ESA* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

Project Information	
Facility Name and Address:	Oaks Business Park
Reason for the Phase I ESA:	Purchase and Development
Type of Property:	Industrial
Site Owner and Contact Information:	SMP-40 LLC Doug Jamison dougj110@gmail.com
Site Contact Name and Contact Information:	Don Kahler (925) 980-1203
Tax Assessors Parcel Number (APN):	904-0010-002-02 / 904-0010-007-00

	Yes	No
1. Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, state, or local law?		X
2. Are you aware of any activity use limitations, such as engineering controls (engineered caps, liners, treatment methods, etc.), land use restrictions, or institutional controls (administrative measures restricting groundwater use, construction, or property use, etc.) that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?		X
3. 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 so that you would have specialized knowledge of the chemicals or processes used by this type of business?		X
4a. Does the purchase price being paid for the subject property reasonably reflect the fair market value of the subject property?	X	
4b. If you conclude that there is a difference in fair market price, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?		X
5. Are you aware of any commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as a user,		X
5 (a) Do you know of the past uses of the property?		X
5 (b) Do you know of any specific chemicals that are present or were once present on the subject property?		X
5 (c) Do you know of spills or other chemical releases that have taken place at the subject property?		X

5 (d) Do you know of any environmental cleanups that have taken place at the subject property?		X
6. As the user of this ESA, based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of contamination at the subject property?		X

If you answered "yes" to any of the questions (except 4a) above, please provide more detail below, or attach additional information to this document:

Name and title of person completing questionnaire. (Please Print)	
Timur Tecimer	
Signature of person completing questionnaire.	Date:
	6/3/19

APPENDIX C

HISTORICAL DATA

Oaks Business Park

NW of Stanley Blvd and Isabel Ave

Livermore, CA 94551

Inquiry Number: 5657743.8

May 21, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/21/19

Site Name:

Oaks Business Park
NW of Stanley Blvd and Isabel
Livermore, CA 94551
EDR Inquiry # 5657743.8

Client Name:

Ardent Environmental Group
1827 Capital Street
Corona, CA 92880
Contact: Dennis Kawasaki

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 22, 1998	USDA
1993	1"=500'	Acquisition Date: June 12, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1968	1"=500'	Flight Date: May 07, 1968	USGS
1966	1"=500'	Flight Date: May 15, 1966	USDA
1958	1"=500'	Flight Date: August 09, 1958	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1940	1"=500'	Flight Date: June 08, 1940	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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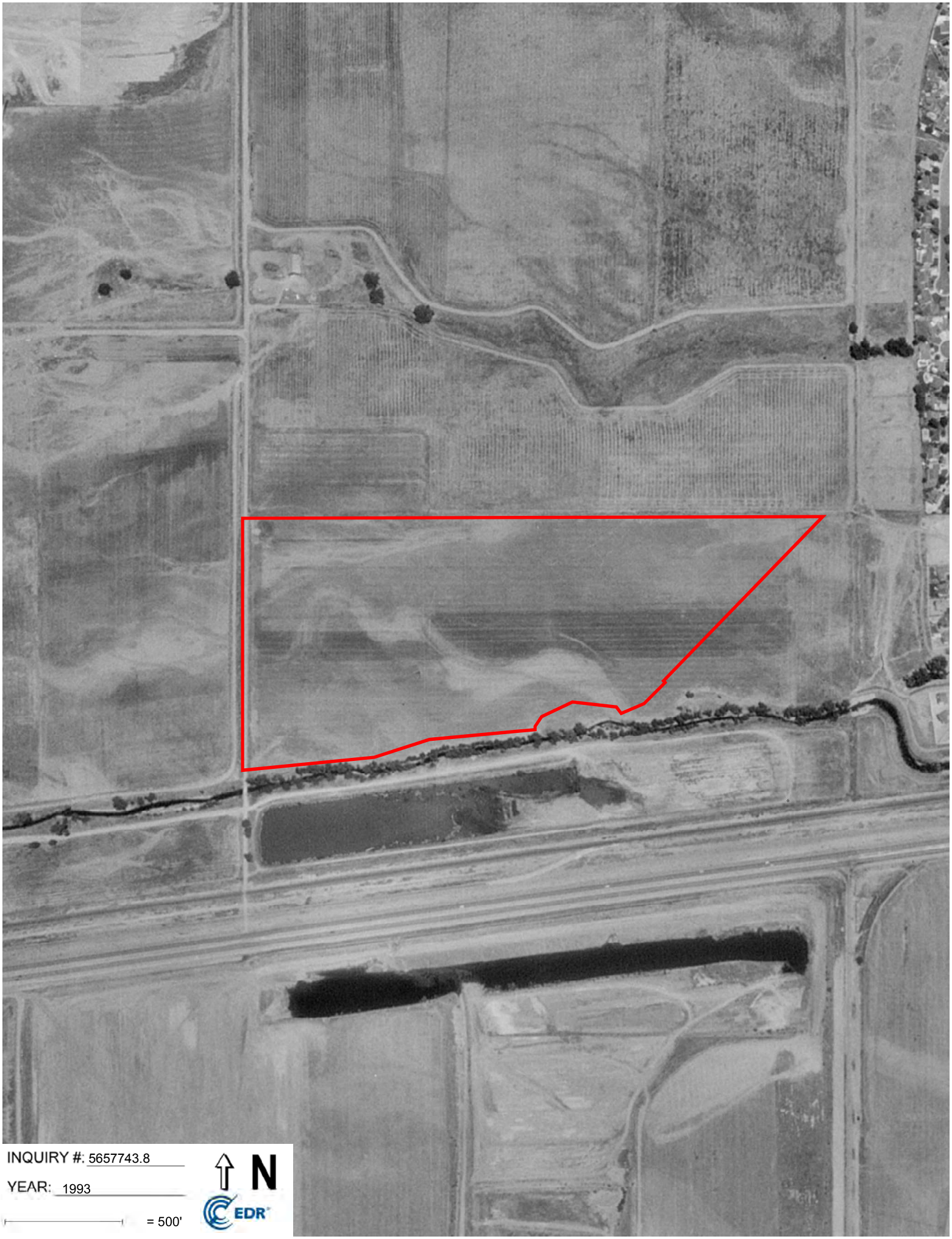
INQUIRY #: 5657743.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 5657743.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 5657743.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 5657743.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 5657743.8
YEAR: 1998
= 500'
N
EDR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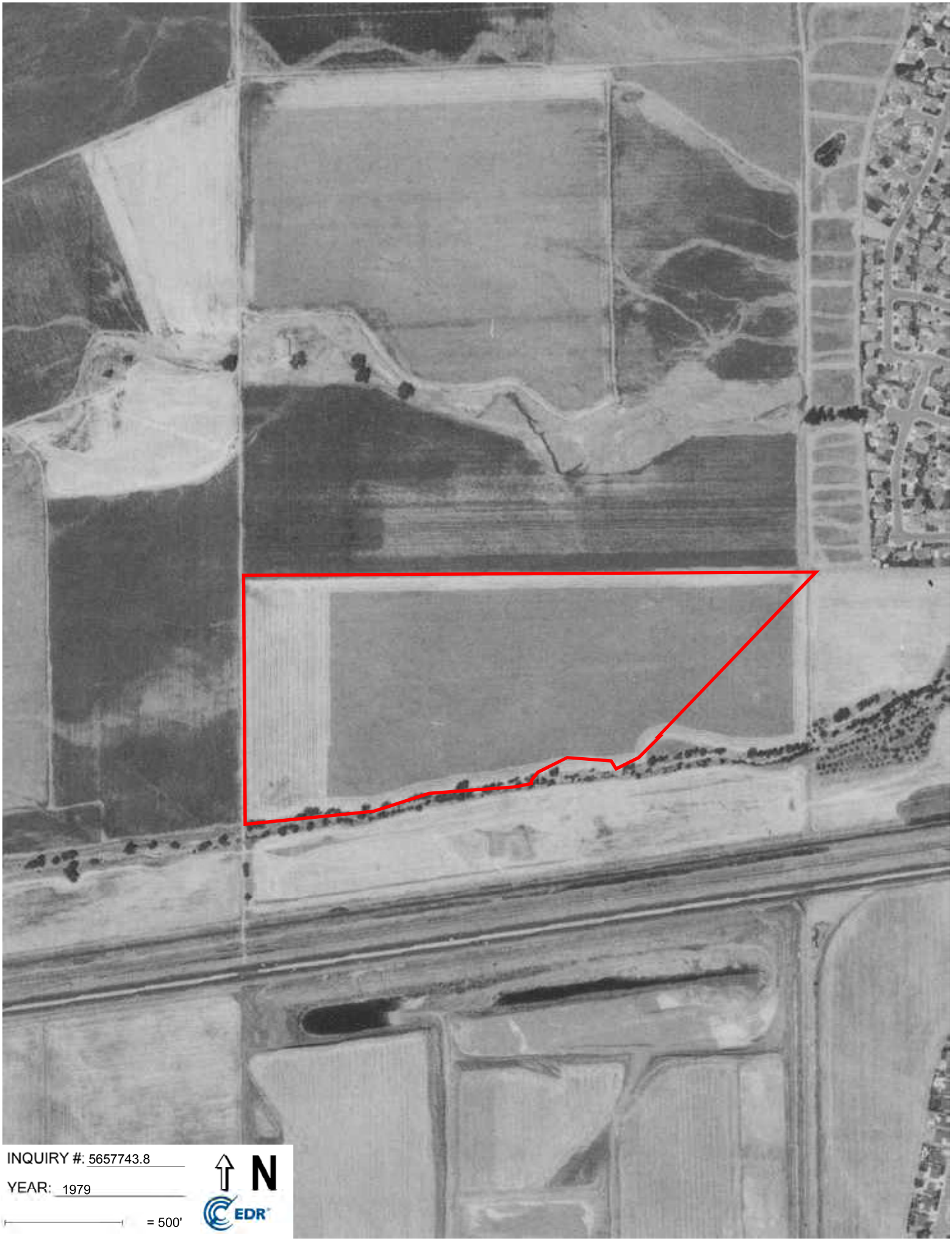
EDR

INQUIRY #: 5657743.8
YEAR: 1982
= 500'
N
EDR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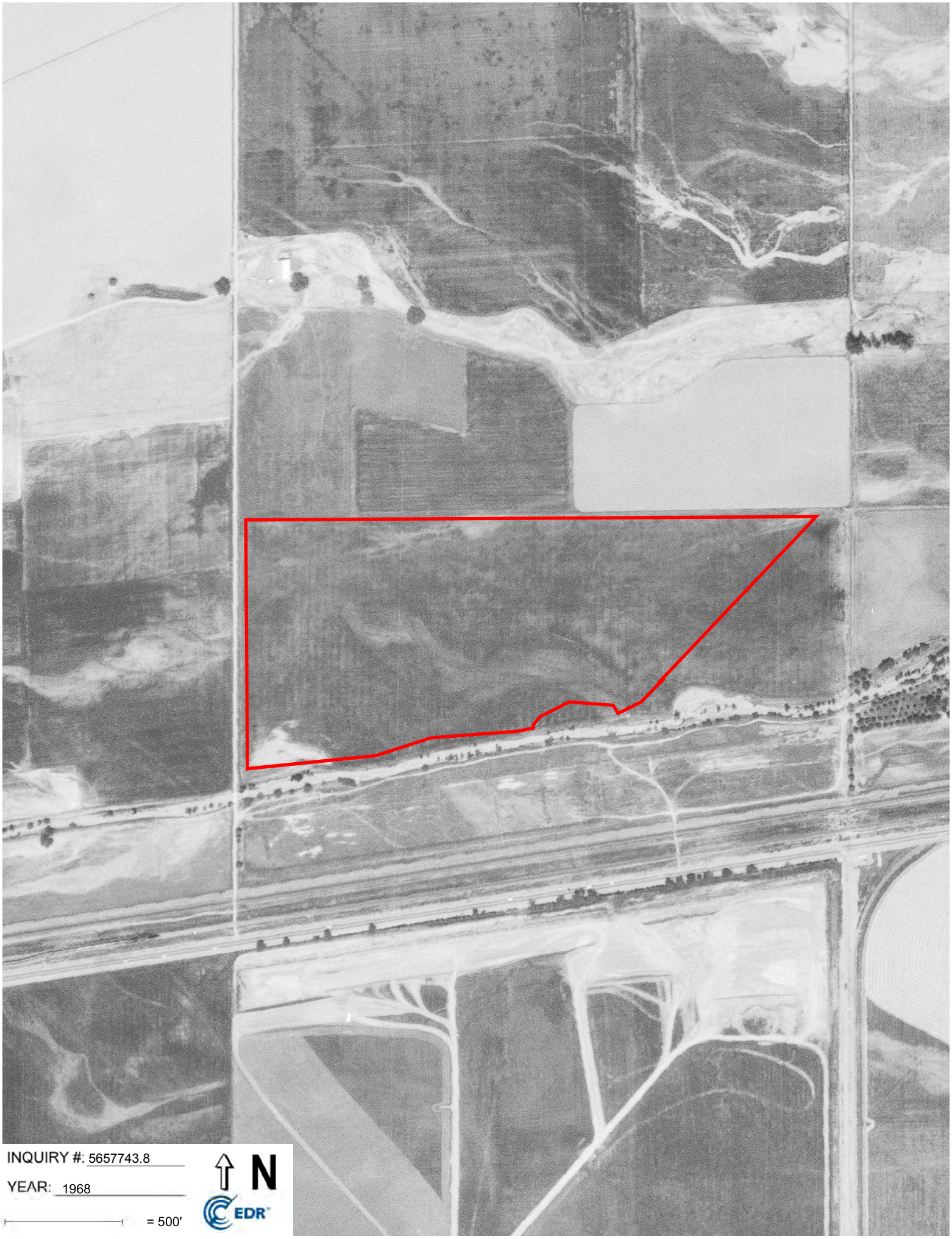
= 500'
N
EDR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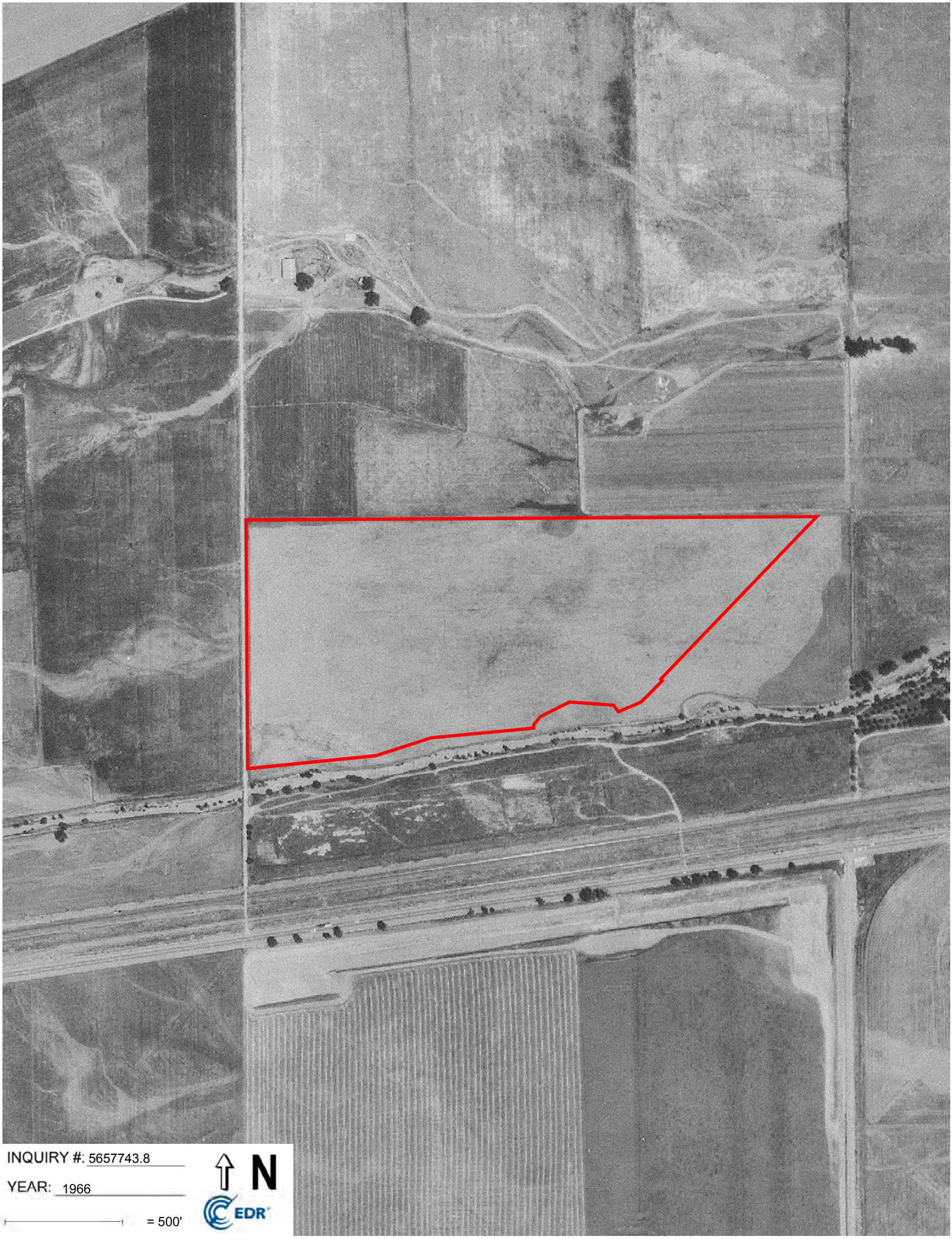
YEAR: 1968
= 500'
N
EDR



INQUIRY #: 5657743.8

YEAR: 1966

= 500'

N

EDR

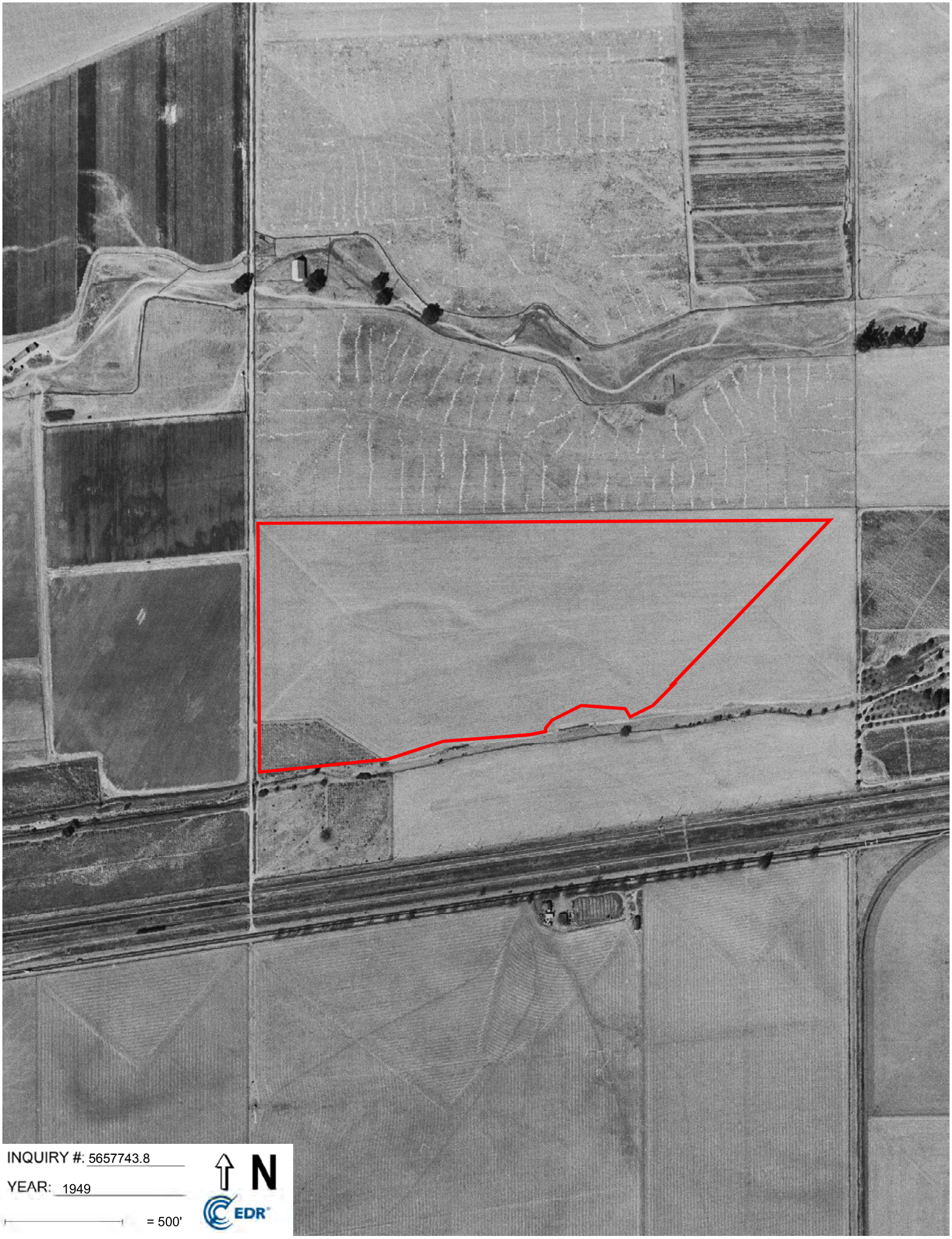
INQUIRY #: 5657743.8

YEAR: 1958

= 500'

N

EDR



INQUIRY #: 5657743.8

YEAR: 1949

= 500'

N

EDR

INQUIRY #: 5657743.8

YEAR: 1940

= 500'

N

EDR

Oaks Business Park
NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551

Inquiry Number: 5657743.5
May 20, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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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 OR 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 orforecast 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.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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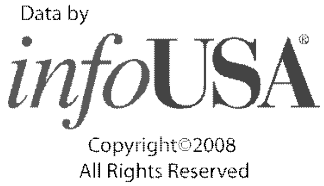

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	-	-	-
2010	EDR Digital Archive	-	-	-	-
2006	Haines Company, Inc.	-	-	-	-
2002	R. L. Polk & Co.	-	-	-	-
2000	Pacific Bell	-	-	-	-
1996	PACIFIC BELL DIRECTORY	-	-	-	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	-	-	-
1991	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1980	Pacific Telephone	-	-	-	-
1979	Pacific Telephone	-	-	-	-
1976	R. L. Polk & Co.	-	-	-	-
1975	Pacific Telephone	-	-	-	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1967	R. L. Polk Co.	-	-	-	-
1965	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	-	-	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co.	-	-	-	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R. L. Polk Co. of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	-	-	-
1920	R. L. Polk & Co. of California	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
NW of Stanley Blvd and Isabel Ave	2014, 2010, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

Oaks Business Park
NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551

Inquiry Number: 5657743.4
May 20, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/20/19

Site Name:

Oaks Business Park
NW of Stanley Blvd and Isabel
Livermore, CA 94551
EDR Inquiry # 5657743.4

Client Name:

Ardent Environmental Group
1827 Capital Street
Corona, CA 92880
Contact: Dennis Kawasaki

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ardent Environmental Group were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 101110001
Project: Oaks Business Park

Coordinates:

Latitude:	37.679004 37° 40' 44" North
Longitude:	-121.810857 -121° 48' 39" West
UTM Zone:	Zone 10 North
UTM X Meters:	604858.93
UTM Y Meters:	4170865.99
Elevation:	406.00' above sea level

Maps Provided:

2012	1906
1980	
1973	
1968	
1961	
1953	
1947	
1941	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Livermore
2012
7.5-minute, 24000

1980 Source Sheets

Livermore
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets

Livermore
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets

Livermore
1968
7.5-minute, 24000
Aerial Photo Revised 1968

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1961 Source Sheets

Livermore
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1953 Source Sheets

Livermore
1953
7.5-minute, 24000
Aerial Photo Revised 1949

1947 Source Sheets

PLEASANTON
1947
15-minute, 50000

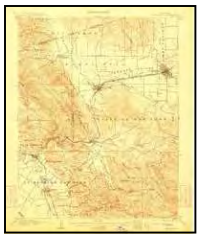
1941 Source Sheets

Pleasanton
1941
15-minute, 62500
Aerial Photo Revised 1937

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1906 Source Sheets



Pleasanton
1906
15-minute, 62500

Historical Topo Map

2012

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

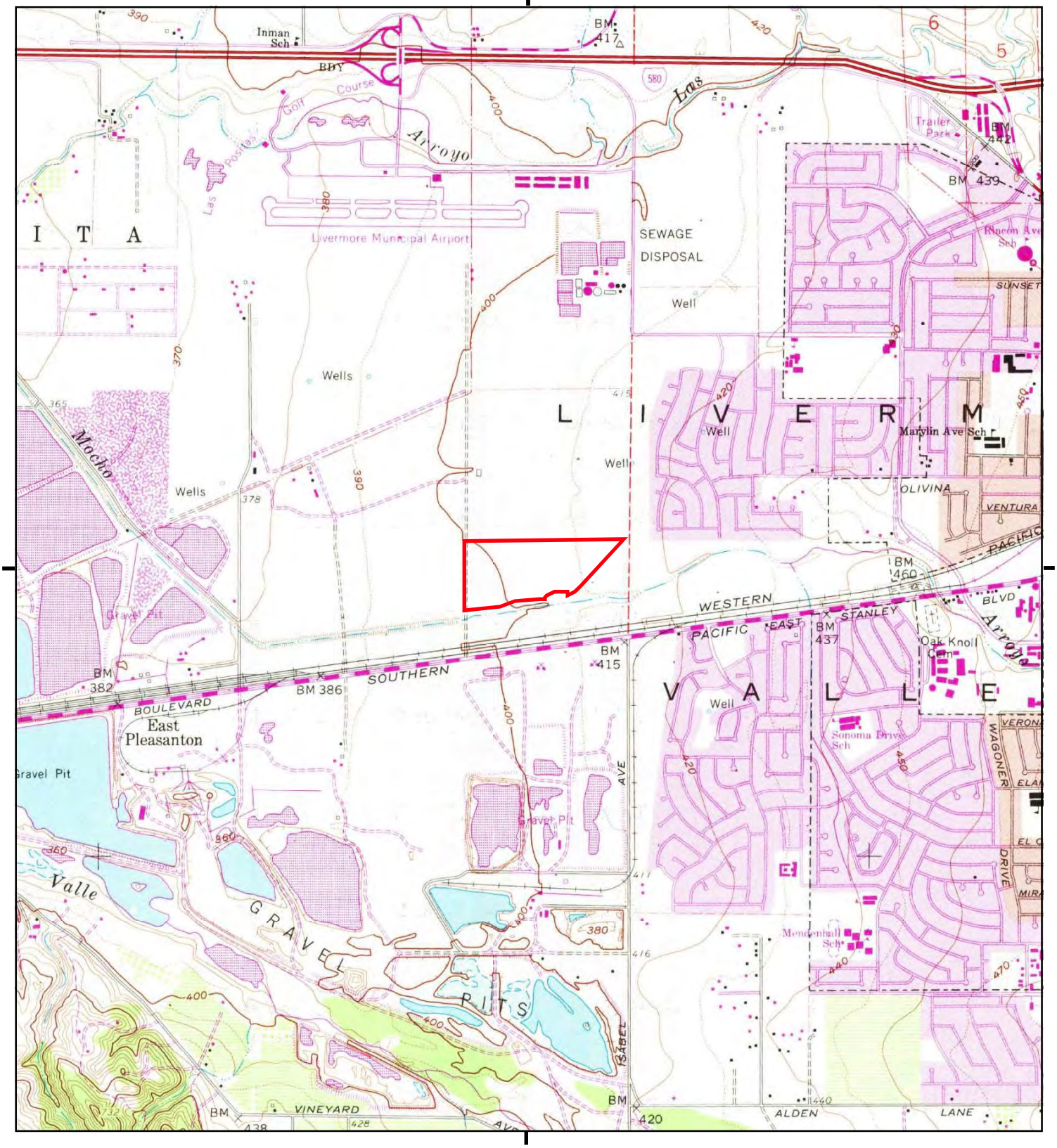
TP, Livermore, 2012, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

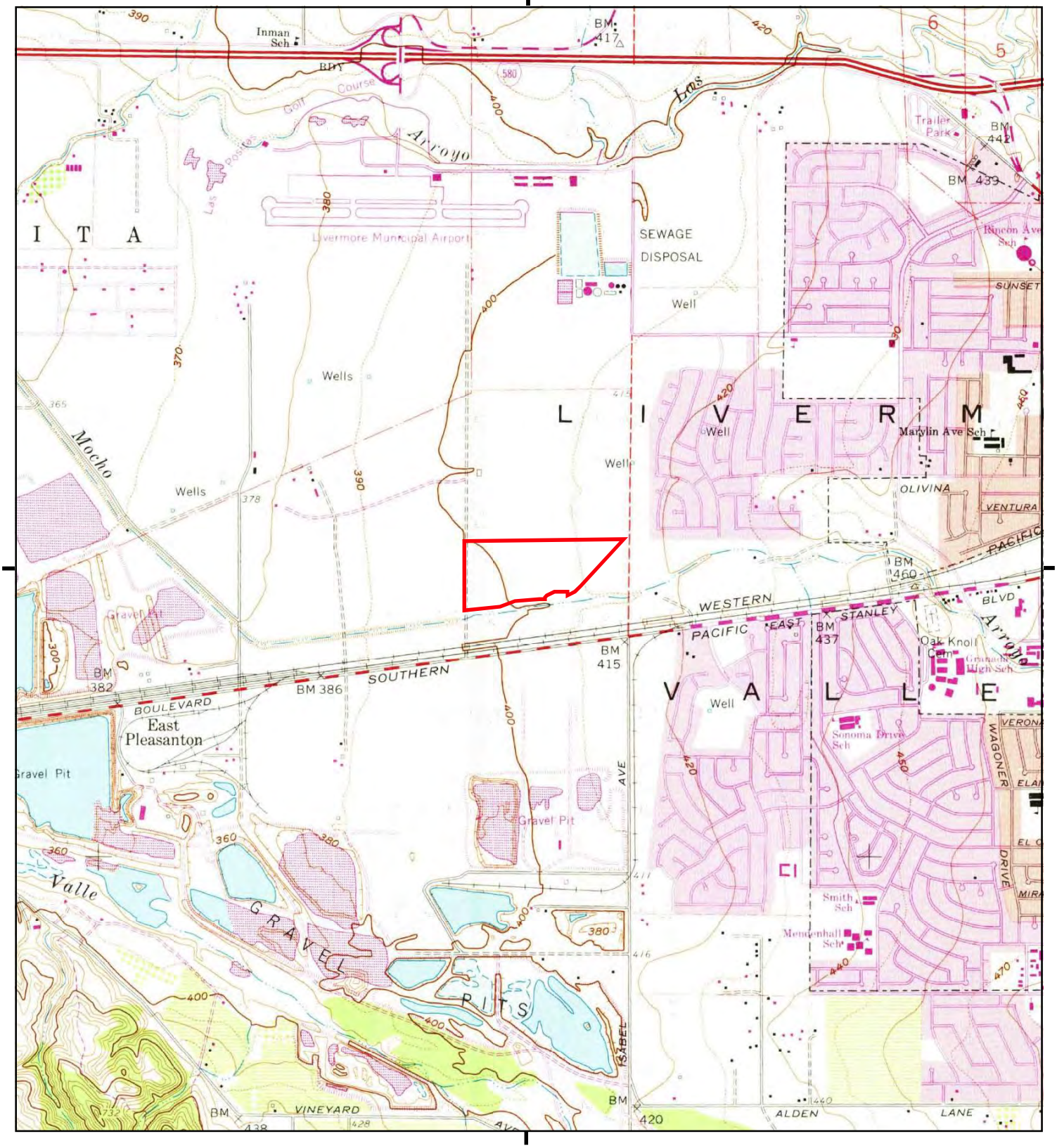
TP, Livermore, 1980, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

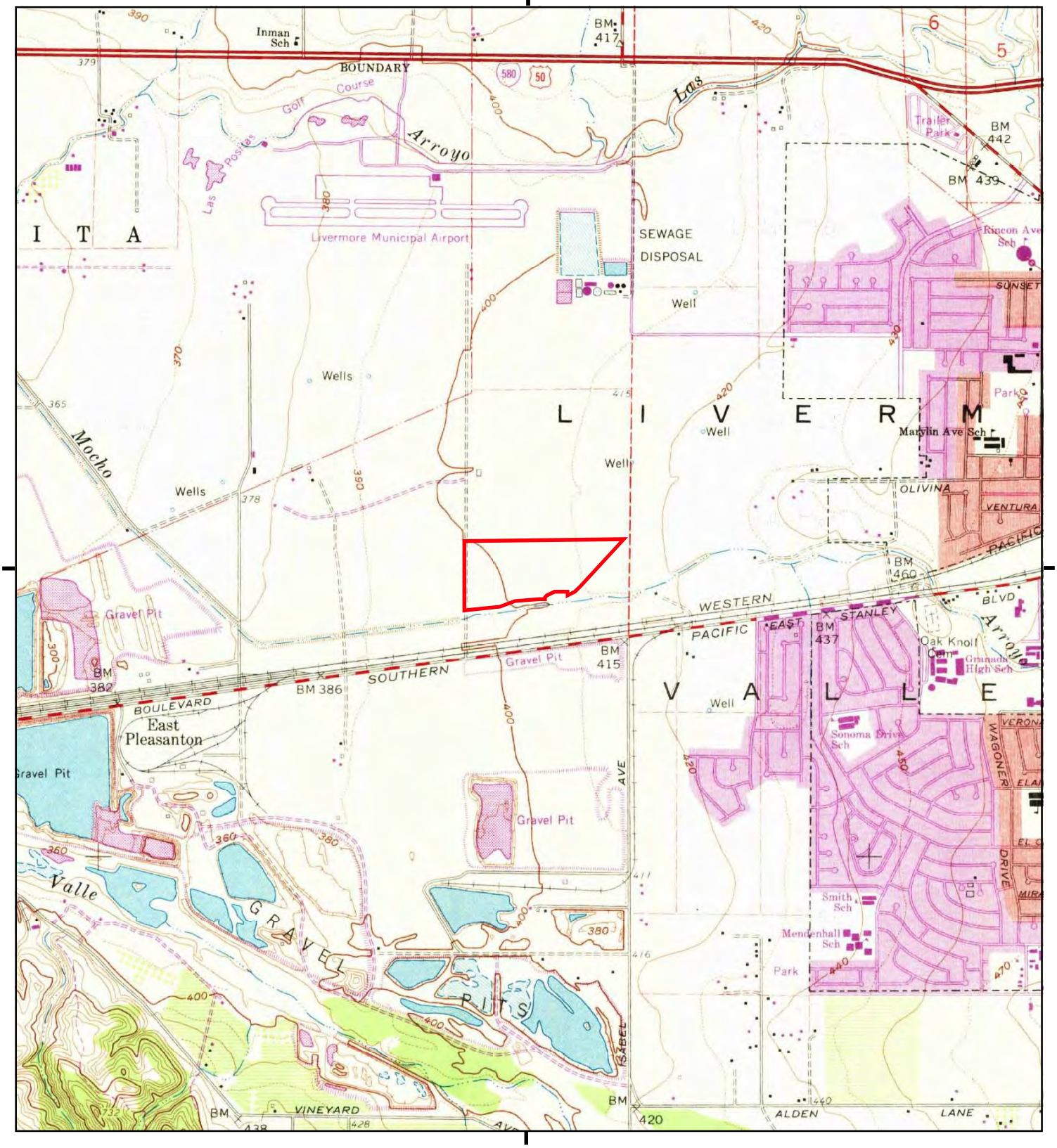
TP, Livermore, 1973, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1968



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

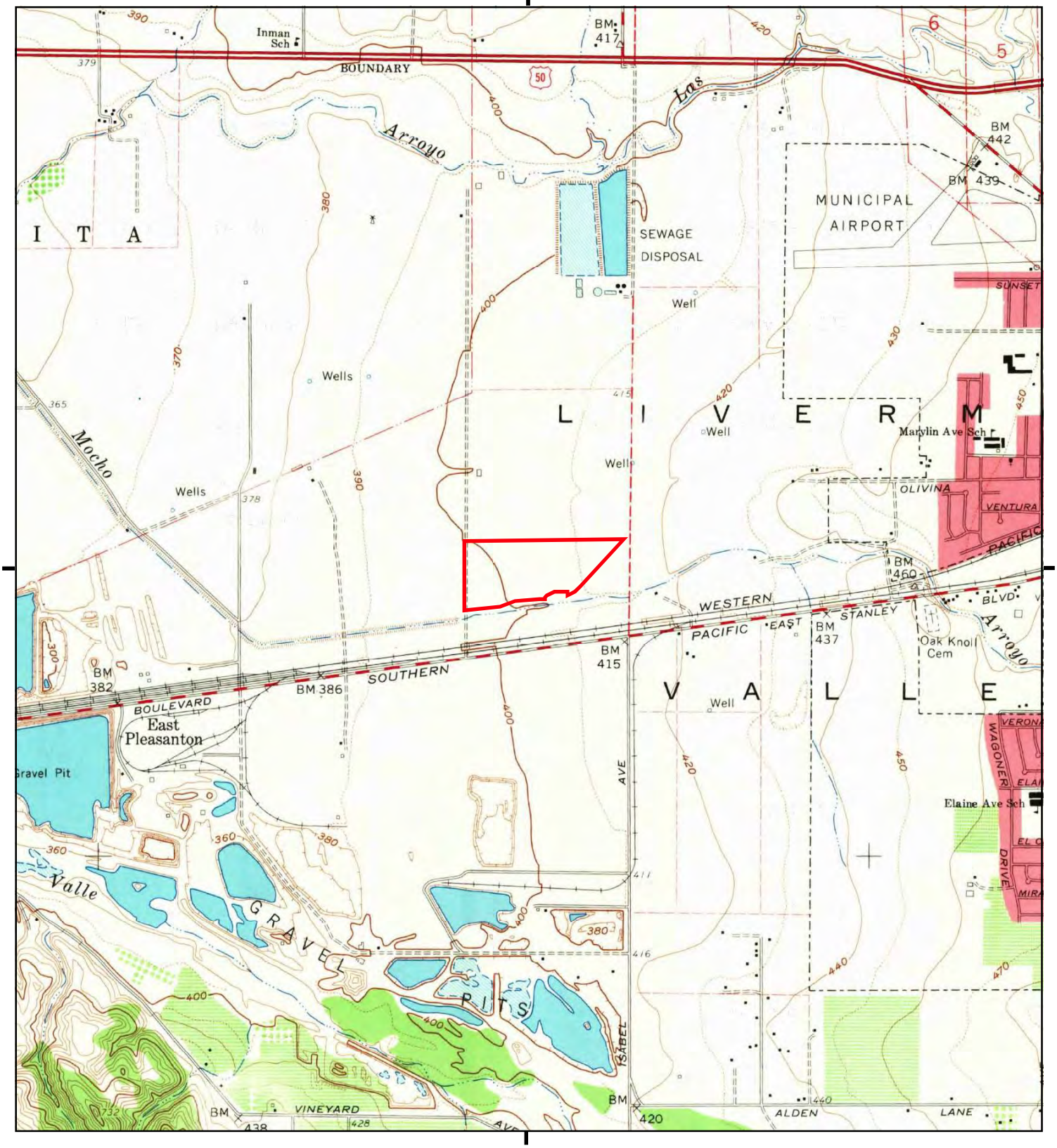
TP, Livermore, 1968, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1961



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

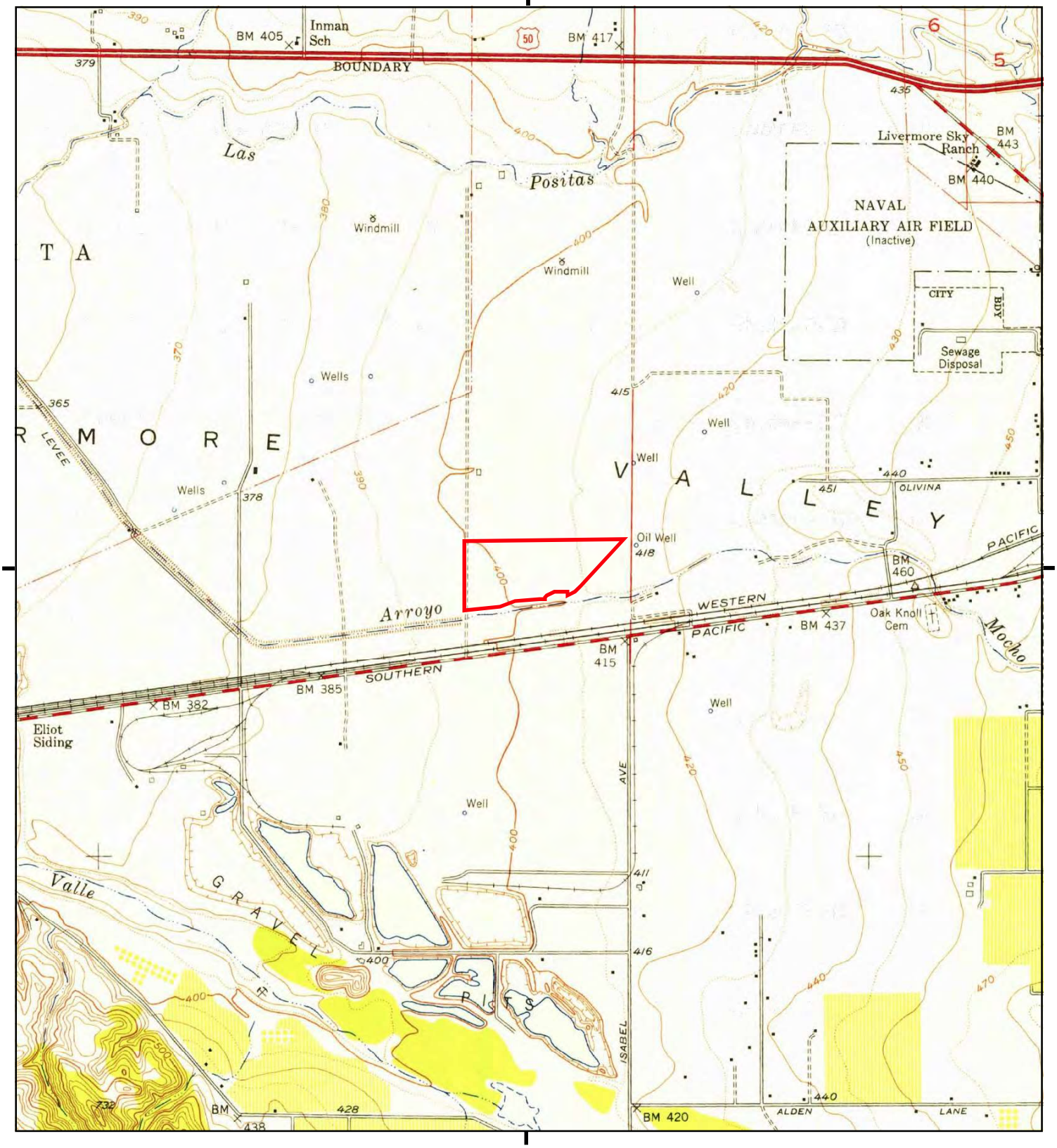
TP, Livermore, 1961, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

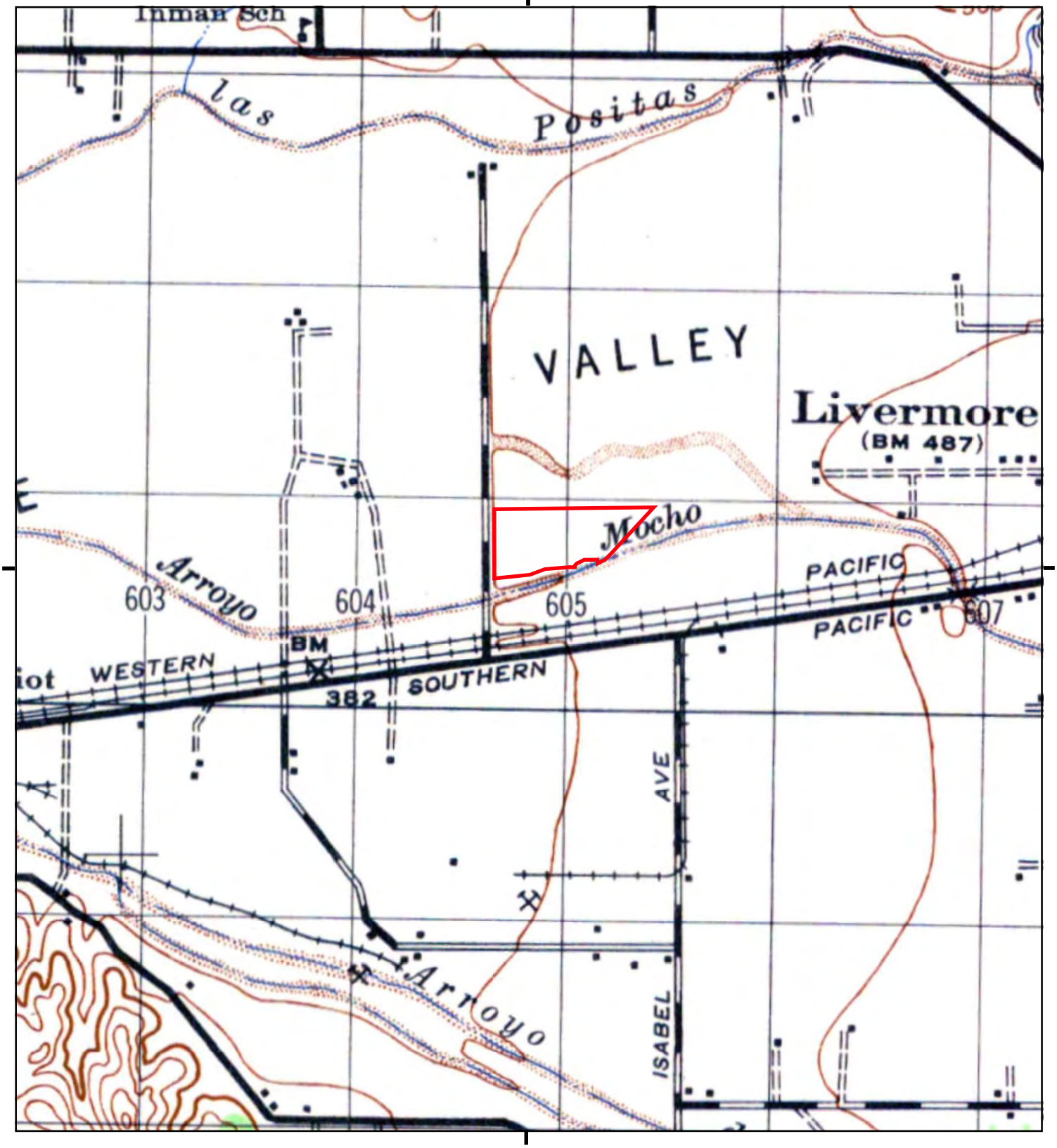
TP, Livermore, 1953, 7.5-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

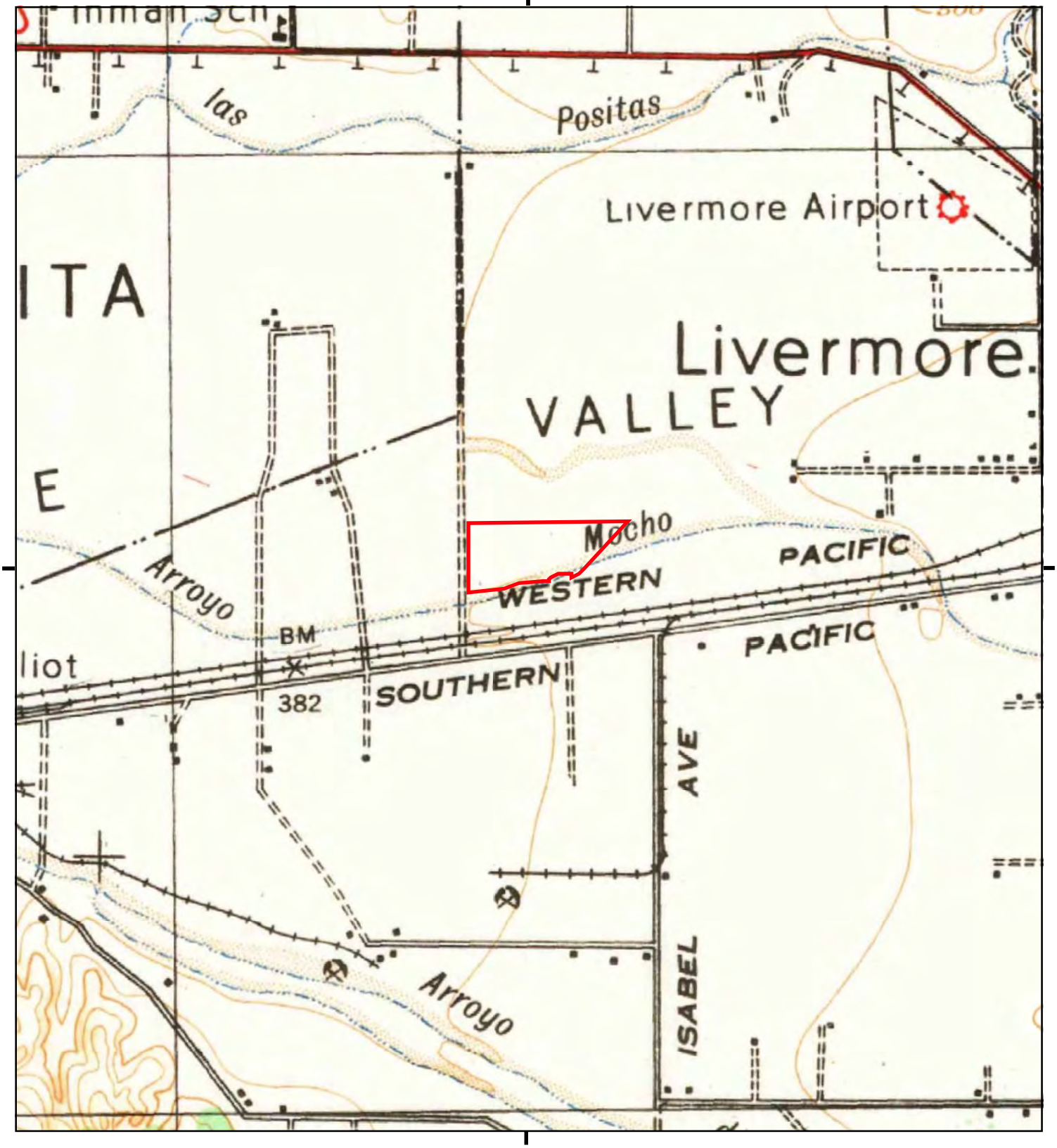
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, PLEASANTON, 1947, 15-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

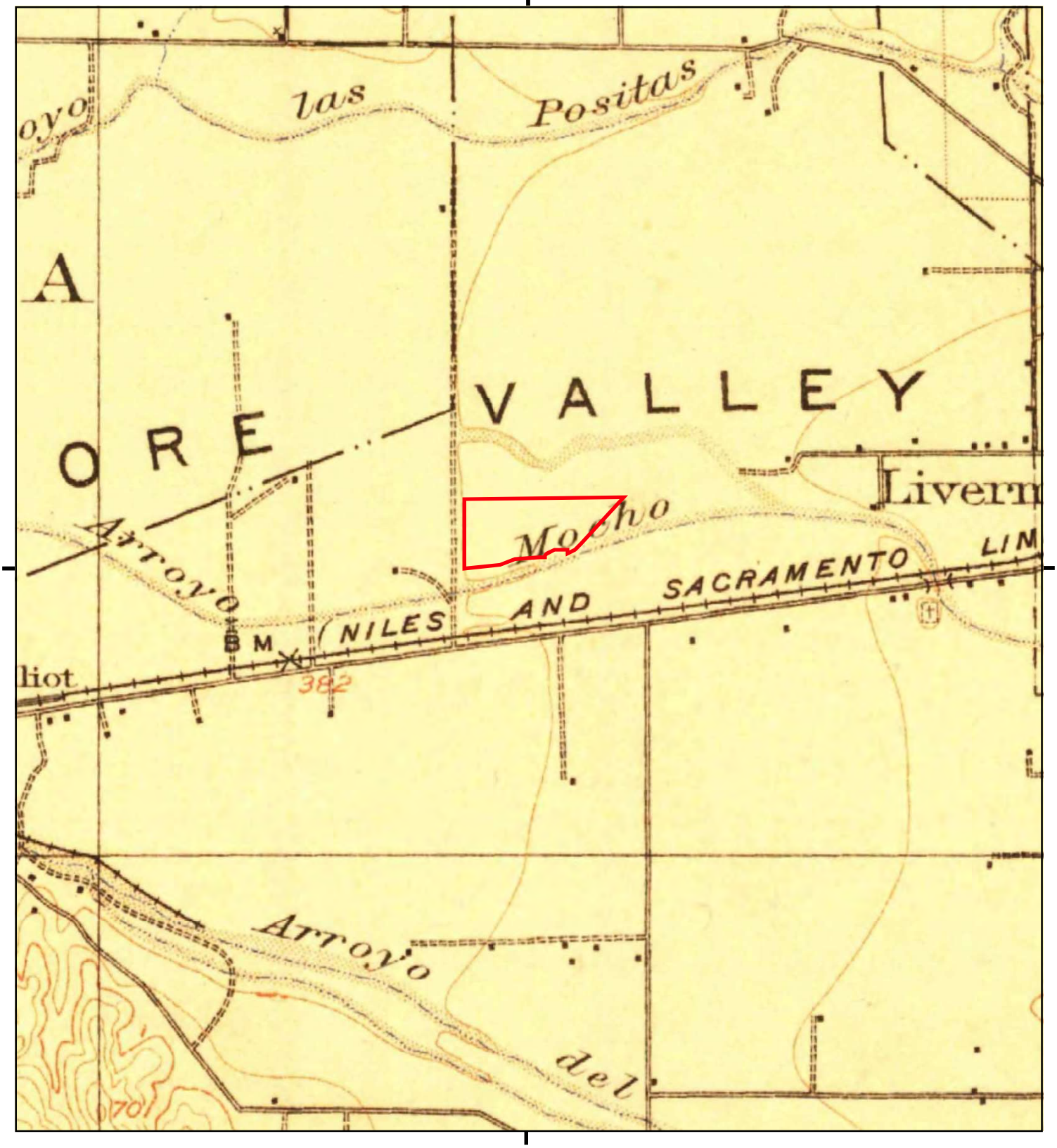
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pleasanton, 1941, 15-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pleasanton, 1906, 15-minute

SITE NAME: Oaks Business Park
ADDRESS: NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551
CLIENT: Ardent Environmental Group

N

APPENDIX D

ENVIRONMENTAL DATABASE REPORT

Oaks Business Park
NW of Stanley Blvd and Isabel Ave
Livermore, CA 94551

Inquiry Number: 5657743.2s
May 20, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (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

NW OF STANLEY BLVD AND ISABEL AVE
LIVERMORE, CA 94551

COORDINATES

Latitude (North):	37.6790040 - 37° 40' 44.41''
Longitude (West):	121.8108570 - 121° 48' 39.08''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	604861.6
UTM Y (Meters):	4170661.0
Elevation:	406 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640392 LIVERMORE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NW OF STANLEY BLVD AND ISABEL AVE
LIVERMORE, CA 94551

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	TESLA MOTORS INCORPO	800 ATLANTIS ST	RCRA-LQG, FINDS, ECHO	Higher	474, 0.090, North
A2	TESLA MOTOR	800 ATLANTIS STREET	CUPA Listings	Higher	474, 0.090, North
A3	TESLA MOTORS INCORPO	800 ATLANTIS ST	CERS HAZ WASTE, HAZNET, CERS	Higher	474, 0.090, North
A4	LAVTA ATLANTIS FACIL	875 ATLANTIS CT	UST	Higher	631, 0.120, NNE
A5	LIVERMORE AMADOR VAL	875 ATLANTIS COURT	CUPA Listings	Higher	631, 0.120, NNE
A6	LAVTA ATLANTIS FACIL	875 ATLANTIS CT	CERS TANKS, CERS	Higher	631, 0.120, NNE
7	ELIOT PLANT	744 STANLEY BLVD	HIST UST	Higher	874, 0.166, SE
B8	TESLA MOTOR	201 DISCOVERY DR	CERS HAZ WASTE, CERS	Higher	982, 0.186, NE
B9	TESLA MOTORS INCORPO	201 DISCOVERY DR	RCRA-LQG, FINDS, ECHO	Higher	982, 0.186, NE
B10	TESLA MOTOR	201 DISCOVERY DRIVE	CUPA Listings	Higher	982, 0.186, NE
11	VALLEY MEMORIAL HOSP	111 STANLEY BLVE	HIST CORTESE	Higher	1254, 0.237, ESE
12	GRANADA HIGH SCHOOL	400 WALL STREET	ENVIROSTOR, SCH, CERS	Higher	5075, 0.961, ESE
13	ASSOCIATED CONCRETE	1901 ISABEL AVENUE	Notify 65	Lower	5085, 0.963, NNE

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 Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

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-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

EXECUTIVE SUMMARY

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
CPS-SLIC ---------- Statewide SLIC Cases
Alameda County CS ---------- Contaminated Sites

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
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

HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
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

SWEEPS UST ---- SWEEPS UST Listing
CA FID UST ---- Facility Inventory Database

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators / No Longer Regulated
FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
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
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
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
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
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
WIP	Well Investigation Program Case List
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)

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

EXECUTIVE SUMMARY

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 RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESLA MOTORS INCORPO EPA ID:: CAR000266429	***800 ATLANTIS ST***	***N 0 - 1/8 (0.090 mi.)***	***A1***	***8***
TESLA MOTORS INCORPO EPA ID:: CAR000266437	***201 DISCOVERY DR***	***NE 1/8 - 1/4 (0.186 mi.)***	***B9***	***39***

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 01/28/2019 has revealed that there is

1 ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRANADA HIGH SCHOOL	***400 WALL STREET***	***ESE 1/2 - 1 (0.961 mi.)***	***12***	***42***
Facility Id: 60000551				
Status: No Action Required				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LAVTA ATLANTIS FACIL	875 ATLANTIS CT	NNE 0 - 1/8 (0.120 mi.)	A4	14
Database: UST, Date of Government Version: 12/10/2018				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

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.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/09/2019 has revealed that there are 2 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESLA MOTORS INCORPO	***800 ATLANTIS ST***	***N 0 - 1/8 (0.090 mi.)***	***A3***	***10***
TESLA MOTOR	***201 DISCOVERY DR***	***NE 1/8 - 1/4 (0.186 mi.)***	***B8***	***34***

Local Lists of Registered Storage Tanks

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 is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ELIOT PLANT	744 STANLEY BLVD	SE 1/8 - 1/4 (0.166 mi.)	7	33
Facility Id: 00000011097				

EXECUTIVE SUMMARY

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.

A review of the CERS TANKS list, as provided by EDR, and dated 04/09/2019 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LAVTA ATLANTIS FACIL	***875 ATLANTIS CT***	***NNE 0 - 1/8 (0.120 mi.)***	***A6***	***15***

Other Ascertainable Records

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
TESLA MOTOR	800 ATLANTIS STREET	N 0 - 1/8 (0.090 mi.)	A2	10
Database: CUPA LIVERMORE-PLEASANTON, Date of Government Version: 01/23/2019				
LIVERMORE AMADOR VAL	875 ATLANTIS COURT	NNE 0 - 1/8 (0.120 mi.)	A5	15
Database: CUPA LIVERMORE-PLEASANTON, Date of Government Version: 01/23/2019				
TESLA MOTOR	201 DISCOVERY DRIVE	NE 1/8 - 1/4 (0.186 mi.)	B10	41
Database: CUPA LIVERMORE-PLEASANTON, Date of Government Version: 01/23/2019				

HIST CORTESE: 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.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VALLEY MEMORIAL HOSP	111 STANLEY BLVE	ESE 1/8 - 1/4 (0.237 mi.)	11	42
Reg Id: 01-0954				

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 03/18/2019 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

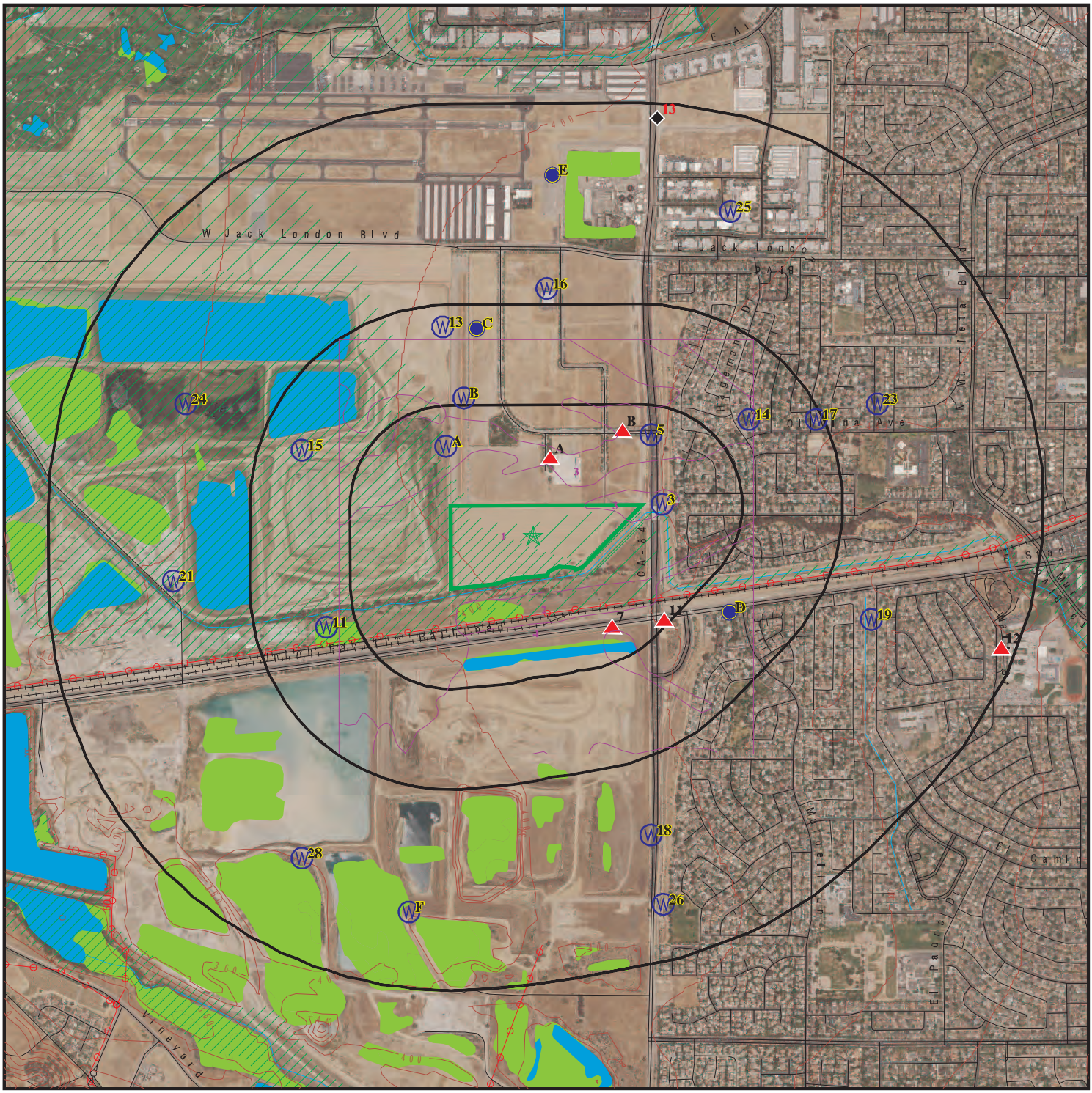
Lower Elevation	Address	Direction / Distance	Map ID	Page
ASSOCIATED CONCRETE	1901 ISABEL AVENUE	NNE 1/2 - 1 (0.963 mi.)	13	45

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
PG&E GAS PLANT LIVERMORE	CDL SEMS-ARCHIVE

OVERVIEW MAP - 5657743.2S



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

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

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:	Oaks Business Park	CLIENT:	Ardent Environmental Group
ADDRESS:	NW of Stanley Blvd and Isabel Ave Livermore CA 94551	CONTACT:	Dennis Kawasaki
LAT/LONG:	37.679004 / 121.810857	INQUIRY #:	5657743.2s
		DATE:	May 20, 2019 1:51 pm

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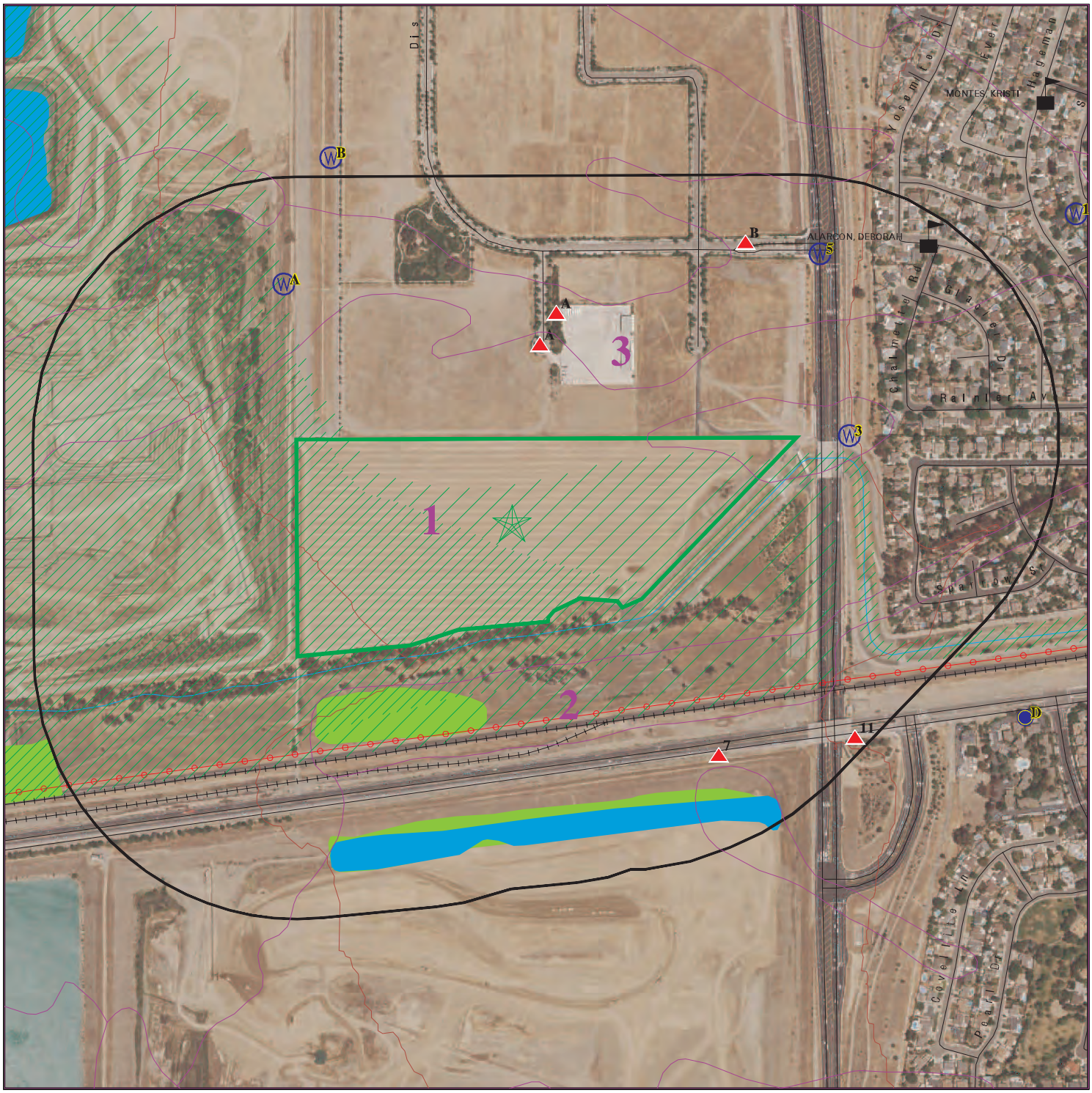
DETAIL MAP - 5657743.2S



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

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

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:	Oaks Business Park	CLIENT:	Ardent Environmental Group
ADDRESS:	NW of Stanley Blvd and Isabel Ave Livermore CA 94551	CONTACT:	Dennis Kawasaki
LAT/LONG:	37.679004 / 121.810857	INQUIRY #:	5657743.2s
		DATE:	May 20, 2019 1:55 pm

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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	0	NR	0
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		1	1	NR	NR	NR	2
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	1	NR	1
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
Alameda County CS	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		1	0	NR	NR	NR	1
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	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		1	1	NR	NR	NR	2
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	0	NR	NR	NR	1
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		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	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
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		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	1	0	NR	NR	1
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	1	NR	1
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
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
WIP	0.250		0	0	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
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	2	0	13

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **TESLA MOTORS INCORPORATED** **RCRA-LQG** **1019899575**
North **800 ATLANTIS ST** **FINDS** **CAR000266429**
< 1/8 **LIVERMORE, CA 94501** **ECHO**
0.090 mi.
474 ft. **Site 1 of 6 in cluster A**

Relative:
Higher

Actual:
410 ft.

RCRA-LQG:

Date form received by agency:	09/09/2016
Facility name:	TESLA MOTORS INCORPORATED
Facility address:	800 ATLANTIS ST LIVERMORE, CA 94501
EPA ID:	CAR000266429
Mailing address:	PO BOX 1886 FREMONT, CA 94538
Contact:	SUSAN RIGMAIDEN
Contact address:	PO BOX 1886 FREMONT, CA 94538
Contact country:	US
Contact telephone:	510-579-9586
Contact email:	SRIGMAIDEN@TESLA.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LIVERMORE OAKS JOINT VENTURE LLC
Owner/operator address:	FOURTH AVE STE 2400 C/O BENTALL KENNEDY SEATTLE, WA 98161
Owner/operator country:	US
Owner/operator telephone:	206-682-4769
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:	01/01/2016
Owner/Op end date:	Not reported
Owner/operator name:	TESLA MOTORS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

TESLA MOTORS INCORPORATED (Continued) **1019899575**

Owner/Op start date: 01/01/2016
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

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110069707080

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019899575
Registry ID: 110069707080
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069707080

A2 **TESLA MOTOR** **CUPA Listings** **S120762515**
North **800 ATLANTIS STREET** **N/A**
< 1/8 **LIVERMORE, CA**
0.090 mi.
474 ft. **Site 2 of 6 in cluster A**

Relative: CUPA LIVERMORE-PLEASANTON:
Higher Permit List: Hazardous Materials Business Plan Hazardous Waste Generator,CESQG

Actual:
410 ft.

A3 **TESLA MOTORS INCORPORATED** **CERS HAZ WASTE** **S121780308**
North **800 ATLANTIS ST** **HAZNET** **N/A**
< 1/8 **LIVERMORE, CA 94501** **CERS**
0.090 mi.
474 ft. **Site 3 of 6 in cluster A**

Relative: CERS HAZ WASTE:
Higher Site ID: 419503
CERS ID: 10728691
Actual: CERS Description: Hazardous Waste Generator
410 ft.

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Livermore-Pleasanton FD
Entity Title: Not reported
Affiliation Address: 3560 Nevada Street
Affiliation City: Pleasanton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94566
Affiliation Phone: (925) 454-2361

Affiliation Type Desc: Legal Owner
Entity Name: Tesla, Inc.
Entity Title: Not reported
Affiliation Address: 800 Atlantis Street
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 273-8215

TESLA MOTORS INCORPORATED (Continued) **S121780308**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Charlene Viet
Entity Title:	Not reported
Affiliation Address:	45500 Fremont BLVD.
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	800 Atlantis Street
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94550
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 273-8215

Affiliation Type Desc:	Identification Signer
Entity Name:	Jimmy Dileo
Entity Title:	Sr. Environmental Program Manager
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:	Document Preparer
Entity Name:	Jimmy Dileo
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:	Parent Corporation
Entity Name:	Tesla Motor
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

TESLA MOTORS INCORPORATED (Continued) **S121780308**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: CBRE
Entity Title: Not reported
Affiliation Address: 400 S. Hope Street, 25th Floor
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90071
Affiliation Phone: (310) 606-5023

HAZNET:
Site Name: TESLA MOTORS INCORPORATED
Year: 2017
GEPAID: CAR000266429
Contact: SANDY MARUYAMA
Telephone: 5103209505
Mailing Name: Not reported
Mailing Address: PO BOX 1886
Mailing City,St,Zip: FREMONT, CA 94538
Gen County: Alameda
TSD EPA ID: MXC130619001
TSD County: Not reported
Tons: 0.0925
CA Waste Code: 352-Other organic solids
Method: H050-Energy Recovery At This Site--Use As Fuel(Includes On-Site Fuel Blending)
Facility County: Alameda

CERS TANKS:
Site ID: 419503
CERS ID: 10728691
Site Name: TESLA MOTOR
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

TESLA MOTORS INCORPORATED (Continued) **S121780308**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Livermore-Pleasanton FD
Entity Title:	Not reported
Affiliation Address:	3560 Nevada Street
Affiliation City:	Pleasanton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94566
Affiliation Phone:	(925) 454-2361

Affiliation Type Desc:	Legal Owner
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	800 Atlantis Street
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94551
Affiliation Phone:	(925) 273-8215

Affiliation Type Desc:	Environmental Contact
Entity Name:	Charlene Viet
Entity Title:	Not reported
Affiliation Address:	45500 Fremont BLVD.
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	800 Atlantis Street
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94550
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 273-8215

Affiliation Type Desc:	Identification Signer
Entity Name:	Jimmy Dileo
Entity Title:	Sr. Environmental Program Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

TESLA MOTORS INCORPORATED (Continued) **S121780308**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Jimmy Dileo
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:	Parent Corporation
Entity Name:	Tesla Motor
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:	Property Owner
Entity Name:	CBRE
Entity Title:	Not reported
Affiliation Address:	400 S. Hope Street, 25th Floor
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90071
Affiliation Phone:	(310) 606-5023

A4 **LAVTA ATLANTIS FACILITY** **UST** **U004265910**
NNE **875 ATLANTIS CT** **N/A**
< 1/8 **LIVERMORE, CA 94551**
0.120 mi.
631 ft. **Site 4 of 6 in cluster A**

Relative: UST:
Higher

Facility ID:	Not reported
Permitting Agency:	Livermore-Pleasanton FD
Latitude:	37.68232
Longitude:	-121.81037

Actual:
410 ft.

A5 **LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY** **CUPA Listings** **S120761873**
NNE **875 ATLANTIS COURT** **N/A**
< 1/8 **LIVERMORE, CA**
0.120 mi.
631 ft. **Site 5 of 6 in cluster A**

Relative:
Higher

Actual:
410 ft.

CUPA LIVERMORE-PLEASANTON:
Permit List: Hazardous Materials Business Plan Underground Storage Tank(s) - 2 Tank(s)

A6 **LAVTA ATLANTIS FACILITY** **CERS TANKS** **S121785641**
NNE **875 ATLANTIS CT** **CERS** **N/A**
< 1/8 **LIVERMORE, CA 94551**
0.120 mi.
631 ft. **Site 6 of 6 in cluster A**

Relative:
Higher

Actual:
410 ft.

CERS TANKS:
Facility Name: LAVTA ATLANTIS FACILITY
Site ID: 43723
CERS ID: 10449034
CERS Description: Underground Storage Tank

Violations:
Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-20-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/21/2014.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 08/19/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-18-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

	Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	09-01-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes:	Returned to compliance on 09/15/2016.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	08-19-2016
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 08/19/2016.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	09-01-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/07/2017.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	08-21-2015
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 08/21/2015.
Violation Division:	Livermore-Pleasanton FD

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/10/2017.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 08/19/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 09/01/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-17-2017
Violations Found: No

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-17-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 03-17-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 03-17-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 10-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 10-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: UST
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: UST Permit Applicant
Entity Name: Beverly Adamo
Entity Title: Director of Administrative Services
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 455-7563

Affiliation Type Desc: Document Preparer
Entity Name: Tamara Edwards
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: Tamara Edwards
Entity Title: Not reported
Affiliation Address: 1362 Rutan Drive
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Tamara Edwards
Entity Title: Director of Finance
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: Legal Owner
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court, Suite 100
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 455-7555

Affiliation Type Desc: CUPA District

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Entity Name: Livermore-Pleasanton FD
Entity Title: Not reported
Affiliation Address: 3560 Nevada Street
Affiliation City: Pleasanton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94566
Affiliation Phone: (925) 454-2361

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court, Suite 100
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Livermore Amador Valley Transit Authority
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: (925) 455-7555

Affiliation Type Desc: Parent Corporation
Entity Name: Livermore Amador Valley Transit Authority
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: UST Property Owner Name
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 455-7555

Affiliation Type Desc: UST Tank Operator
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Affiliation Phone: (925) 455-7555

Affiliation Type Desc: UST Tank Owner
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 455-7555

CERS TANKS:
Site ID: 43723
CERS ID: 10449034
Site Name: LAVTA ATLANTIS FACILITY
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-20-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/21/2014.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 08/19/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-18-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

	Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/18/2017.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	09-01-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes:	Returned to compliance on 09/15/2016.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	08-19-2016
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 08/19/2016.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	UST
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	09-01-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/07/2017.
Violation Division:	Livermore-Pleasanton FD
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	43723
Site Name:	LAVTA Atlantis Facility
Violation Date:	08-21-2015
Citation:	23 CCR 16 2636(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)
Violation Description:	Failure to continuously monitor the interstitial space of the tank, piping and/or sumps sump such that the leak detection activates an audible/visual alarm when a leak is detected.
Violation Notes:	Returned to compliance on 08/21/2015.
Violation Division:	Livermore-Pleasanton FD

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/10/2017.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 08/19/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Violation Date: 08-19-2016
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 09/01/2016.
Violation Division: Livermore-Pleasanton FD
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-17-2017
Violations Found: No

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-10-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-20-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-26-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-17-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 03-17-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 03-17-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 10-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 43723
Site Name: LAVTA Atlantis Facility
Site Address: 875 ATLANTIS CT
Site City: LIVERMORE
Site Zip: 94551
Enf Action Date: 10-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Enf Action Notes: Not reported
Enf Action Division: Livermore-Pleasanton FD
Enf Action Program: UST
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: UST Permit Applicant
Entity Name: Beverly Adamo
Entity Title: Director of Administrative Services
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 455-7563

Affiliation Type Desc: Document Preparer
Entity Name: Tamara Edwards
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: Tamara Edwards
Entity Title: Not reported
Affiliation Address: 1362 Rutan Drive
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Tamara Edwards
Entity Title: Director of Finance
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: Legal Owner
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court, Suite 100
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 455-7555

Affiliation Type Desc: CUPA District

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Entity Name: Livermore-Pleasanton FD
Entity Title: Not reported
Affiliation Address: 3560 Nevada Street
Affiliation City: Pleasanton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94566
Affiliation Phone: (925) 454-2361

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court, Suite 100
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Livermore Amador Valley Transit Authority
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: (925) 455-7555

Affiliation Type Desc: Parent Corporation
Entity Name: Livermore Amador Valley Transit Authority
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: UST Property Owner Name
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551
Affiliation Phone: (925) 455-7555

Affiliation Type Desc: UST Tank Operator
Entity Name: Livermore Amador Valley Transit Authority
Entity Title: Not reported
Affiliation Address: 1362 Rutan Court
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94551

LAVTA ATLANTIS FACILITY (Continued) **S121785641**

Affiliation Phone:	(925) 455-7555
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Livermore Amador Valley Transit Authority
Entity Title:	Not reported
Affiliation Address:	1362 Rutan Court
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94551
Affiliation Phone:	(925) 455-7555

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7 **ELIOT PLANT** **HIST UST** **U001598004**
SE **744 STANLEY BLVD** **N/A**
1/8-1/4 **PLEASANTON, CA 94566**
0.166 mi.
874 ft.

Relative:
Higher

Actual:
415 ft.

HIST UST:

File Number:	000360FA
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000360FA.pdf
Region:	STATE
Facility ID:	00000011097
Facility Type:	Other
Other Type:	AGGREGATE PLANT
Contact Name:	J.A. RIEBLI
Telephone:	4158462824
Owner Name:	LONE STAR INDUSTRIES, INC.
Owner Address:	11555 DUBLIN CANYON ROAD
Owner City,St,Zip:	PLEASANTON, CA 94566
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported

ELIOT PLANT (Continued) **U001598004**

Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 005
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 006
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

B8 **TESLA MOTOR** **CERS HAZ WASTE** **S121780307**
NE **201 DISCOVERY DR** **CERS** **N/A**
1/8-1/4 **LIVERMORE, CA 94551**
0.186 mi.
982 ft. **Site 1 of 3 in cluster B**

Relative: Higher
Actual: 416 ft.

CERS HAZ WASTE:
Site ID: 419502
CERS ID: 10728688
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD

TESLA MOTOR (Continued) **S121780307**

Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 419502
Facility Name: Tesla Motor
Env Int Type Code: HMBP
Program ID: 10728688
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.682790
Longitude: -121.810490

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Jimmy Dileo
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: Parent Corporation
Entity Name: Tesla Motor
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: Property Owner
Entity Name: CBRE
Entity Title: Not reported
Affiliation Address: 400 S. Hope Street, 25th Floor
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90071
Affiliation Phone: (310) 606-5023

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 201 Discovery Drive
Affiliation City: Livermore
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94551
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Charlene Viet

TESLA MOTOR (Continued) **S121780307**

Entity Title:	Not reported
Affiliation Address:	45500 Fremont BLVD.
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	201 Discovery Drive
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94551
Affiliation Phone:	(925) 273-8215
Affiliation Type Desc:	Operator
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 273-8215
Affiliation Type Desc:	CUPA District
Entity Name:	Livermore-Pleasanton FD
Entity Title:	Not reported
Affiliation Address:	3560 Nevada Street
Affiliation City:	Pleasanton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94566
Affiliation Phone:	(925) 454-2361
Affiliation Type Desc:	Identification Signer
Entity Name:	Jimmy Dileo
Entity Title:	Sr. Environmental Program Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CERS TANKS:

Site ID:	419502
CERS ID:	10728688
Site Name:	TESLA MOTOR
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection

TESLA MOTOR (Continued) **S121780307**

Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Livermore-Pleasanton FD
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 419502
Facility Name: Tesla Motor
Env Int Type Code: HMBP
Program ID: 10728688
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.682790
Longitude: -121.810490

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Jimmy Dileo
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: Parent Corporation
Entity Name: Tesla Motor
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: Property Owner
Entity Name: CBRE
Entity Title: Not reported
Affiliation Address: 400 S. Hope Street, 25th Floor
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90071

TESLA MOTOR (Continued) **S121780307**

Affiliation Phone:	(310) 606-5023
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	201 Discovery Drive
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94551
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Charlene Viet
Entity Title:	Not reported
Affiliation Address:	45500 Fremont BLVD.
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	201 Discovery Drive
Affiliation City:	Livermore
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94551
Affiliation Phone:	(925) 273-8215
Affiliation Type Desc:	Operator
Entity Name:	Tesla, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 273-8215
Affiliation Type Desc:	CUPA District
Entity Name:	Livermore-Pleasanton FD
Entity Title:	Not reported
Affiliation Address:	3560 Nevada Street
Affiliation City:	Pleasanton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94566
Affiliation Phone:	(925) 454-2361
Affiliation Type Desc:	Identification Signer
Entity Name:	Jimmy Dileo
Entity Title:	Sr. Environmental Program Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported

TESLA MOTOR (Continued) **S121780307**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

B9 **TESLA MOTORS INCORPORATED** **RCRA-LQG** **1019899576**
NE **201 DISCOVERY DR** **FINDS** **CAR000266437**
1/8-1/4 **LIVERMORE, CA 94501** **ECHO**
0.186 mi.
982 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
416 ft.

RCRA-LQG:
Date form received by agency: 01/28/2019
Facility name: TESLA MOTORS INCORPORATED
Facility address: 201 DISCOVERY DRIVE
LIVERMORE, CA 94501
EPA ID: CAR000266437
Mailing address: PO BOX 1886
FREMONT, CA 94538
Contact: BRANDON FREEMAN
Contact address: FREMONT BLVD
FREMONT, CA 94538
Contact country: US
Contact telephone: 510-299-5718
Contact email: BRFREEMAN@TESLA.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: LIVERMORE OAKS JOINT VENTURE LLC
Owner/operator address: FOURTH AVE STE 2400 C/O BENTALL KENNEDY
SEATTLE, WA 98161
Owner/operator country: US
Owner/operator telephone: 206-682-4769
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: 01/01/2016
Owner/Op end date: Not reported

Owner/operator name: TESLA INC.
Owner/operator address: DEER CREEK RD

TESLA MOTORS INCORPORATED (Continued) **1019899576**

PALO ALTO, CA 94303
Owner/operator country: US
Owner/operator telephone: 650-681-5100
Owner/operator email: BRFREEMAN@TESLA.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/13/2016
Owner/Op end date: Not reported

Owner/operator name: TESLA MOTORS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
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: 01/01/2016
Owner/Op end date: Not reported

Owner/operator name: LIVERMORE OAKS JOINT VENTURE LLC
Owner/operator address: N. CALIFORNIA BLVD SUITE 2400
WALNUT CREEK, CA 94568
Owner/operator country: US
Owner/operator telephone: 925-251-4646
Owner/operator email: REBECCA.FOUST@CBRE.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/01/2016
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

. Waste code: 352
. Waste name: Other organic solids

TESLA MOTORS INCORPORATED (Continued) **1019899576**

. Waste code: D001
. Waste name: IGNITABLE WASTE

Historical Generators:
Date form received by agency: 09/09/2016
Site name: TESLA MOTORS INCORPORATED
Classification: Large Quantity Generator

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110069707099

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1019899576
Registry ID: 110069707099
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110069707099

B10 **TESLA MOTOR** **CUPA Listings** **S120762346**
NE **201 DISCOVERY DRIVE** **N/A**
1/8-1/4 **LIVERMORE, CA**
0.186 mi.
982 ft. **Site 3 of 3 in cluster B**

Relative: CUPA LIVERMORE-PLEASANTON:
Higher Permit List: Hazardous Materials Business Plan Hazardous Waste Generator, SQG

Actual:
416 ft.

11
ESE
1/8-1/4
0.237 mi.
1254 ft.

VALLEY MEMORIAL HOSPITAL
111 STANLEY BLVE
LIVERMORE, CA 94550

HIST CORTESE **S105024486**
N/A

Relative:
Higher

Actual:
420 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0954

12
ESE
1/2-1
0.961 mi.
5075 ft.

GRANADA HIGH SCHOOL
400 WALL STREET
LIVERMORE, CA 94550

ENVIROSTOR **S118757129**
SCH **N/A**
CERS

Relative:
Higher

Actual:
457 ft.

ENVIROSTOR:
Facility ID: 60000551
Status: No Action Required
Status Date: 04/17/2007
Site Code: 204196
Site Type: School Investigation
Site Type Detailed: School
Acres: 1.1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 16
Senate: 07
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.67481
Longitude: -121.7876
APN: 99-257-1
Past Use: SCHOOL - HIGH SCHOOL
Potential COC: Naturally Occurring Asbestos (NOA
Confirmed COC: 40002-NO No Contaminants found
Potential Description: SOIL
Alias Name: 99-257-1
Alias Type: APN
Alias Name: 204196
Alias Type: Project Code (Site Code)
Alias Name: 60000551
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/17/2007
Comments: DTSC approved the Phase I Environmental Site Assessment with a no action determination.

GRANADA HIGH SCHOOL (Continued) **S118757129**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/30/2007
Comments: CRU memo was generated and submitted to accounting to initate cost recovery or District reimbursment, as appropriate. The project is considered complete.

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: 60000551
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204196
Assembly: 16
Senate: 07
Special Program Status: Not reported
Status: No Action Required
Status Date: 04/17/2007
Restricted Use: NO
Funding: School District
Latitude: 37.67481
Longitude: -121.7876
APN: 99-257-1
Past Use: SCHOOL - HIGH SCHOOL
Potential COC: Naturally Occurring Asbestos (NOA
Confirmed COC: 40002-NO, No Contaminants found
Potential Description: SOIL
Alias Name: 99-257-1
Alias Type: APN
Alias Name: 204196
Alias Type: Project Code (Site Code)
Alias Name: 60000551
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GRANADA HIGH SCHOOL (Continued) **S118757129**

Completed Document Type: Phase 1
Completed Date: 04/17/2007
Comments: DTSC approved the Phase I Environmental Site Assessment with a no action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/30/2007
Comments: CRU memo was generated and submitted to accounting to initate cost recovery or District reimbursment, as appropriate. The project is considered complete.

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

CERS TANKS:
Site ID: 371156
CERS ID: 60000551
Site Name: GRANADA HIGH SCHOOL
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: JOSE LUEVANO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: MARK MALINOWSKI
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

13
NNE
1/2-1
0.963 mi.
5085 ft.

ASSOCIATED CONCRETE PRODUCTS
1901 ISABEL AVENUE
LIVERMORE, CA 94550

Notify 65 **S100179843**
N/A

Relative:
Lower

Actual:
403 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALAMEDA COUNTY	S107530465		2 MILES SOUTH EAST OF CORRAL H	94551	CDL
LIVERMORE	1003878884	PG&E GAS PLANT LIVERMORE	200 TO 375 FT W OF N ST @RR	94550	SEMS-ARCHIVE

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: 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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
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 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 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 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 R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
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: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
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

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: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 06/24/2019
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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 04/03/2019
Next Scheduled EDR Contact: 06/03/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
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: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
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: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
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: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 06/17/2019
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: 02/01/2019
Date Data Arrived at EDR: 02/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
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: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 12/31/2018
Date Data Arrived at EDR: 02/11/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
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: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/03/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 12/13/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

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: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 06/10/2019
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: 12/31/2017
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: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
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: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
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: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

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: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
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: 03/25/2019
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: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
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: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
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: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
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: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
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: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
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: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
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: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
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: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 06/24/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
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: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
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: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
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: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
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: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
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
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OAKS BUSINESS PARK
NW OF STANLEY BLVD AND ISABEL AVE
LIVERMORE, CA 94551

TARGET PROPERTY COORDINATES

Latitude (North):	37.679004 - 37° 40' 44.41''
Longitude (West):	121.810857 - 121° 48' 39.09''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	604861.6
UTM Y (Meters):	4170661.0
Elevation:	406 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640392 LIVERMORE, 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).

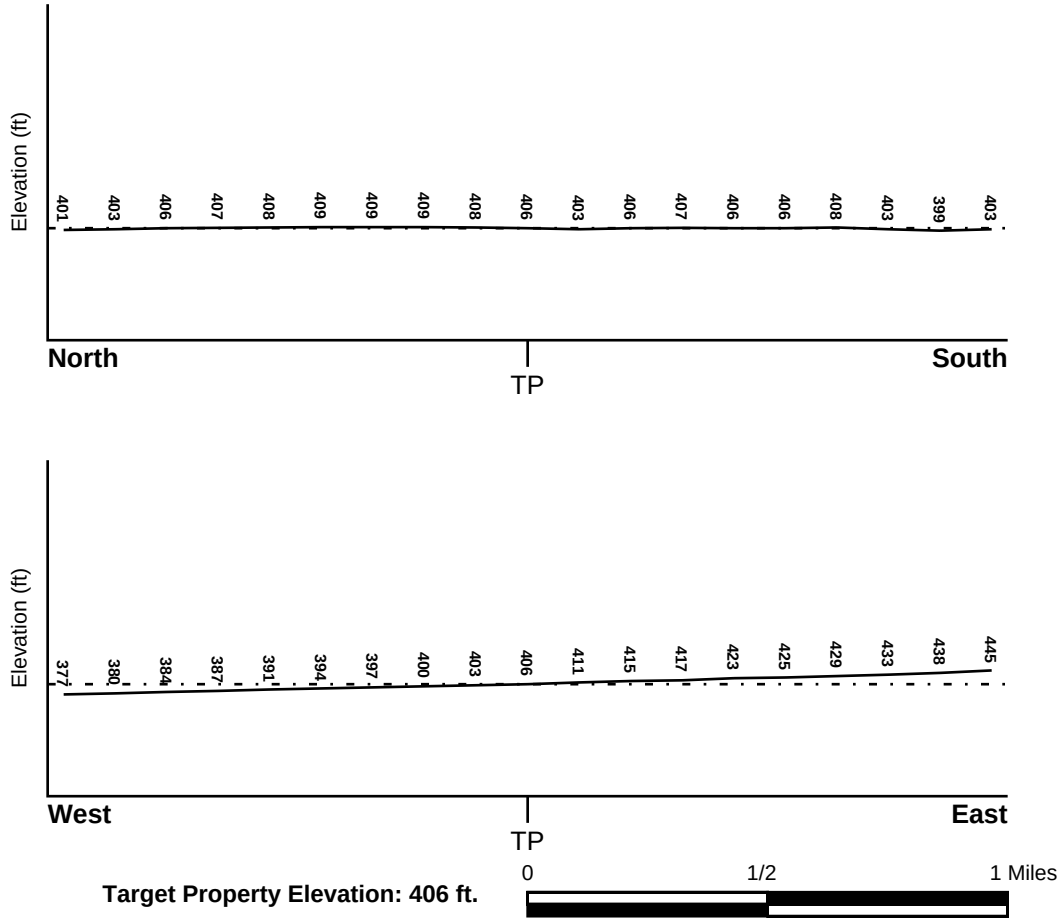
TOPOGRAPHIC INFORMATION

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 West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 406 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
06001C0341G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06001C0329G	FEMA FIRM Flood data
06001C0333G	FEMA FIRM Flood data
06001C0337G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LIVERMORE	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

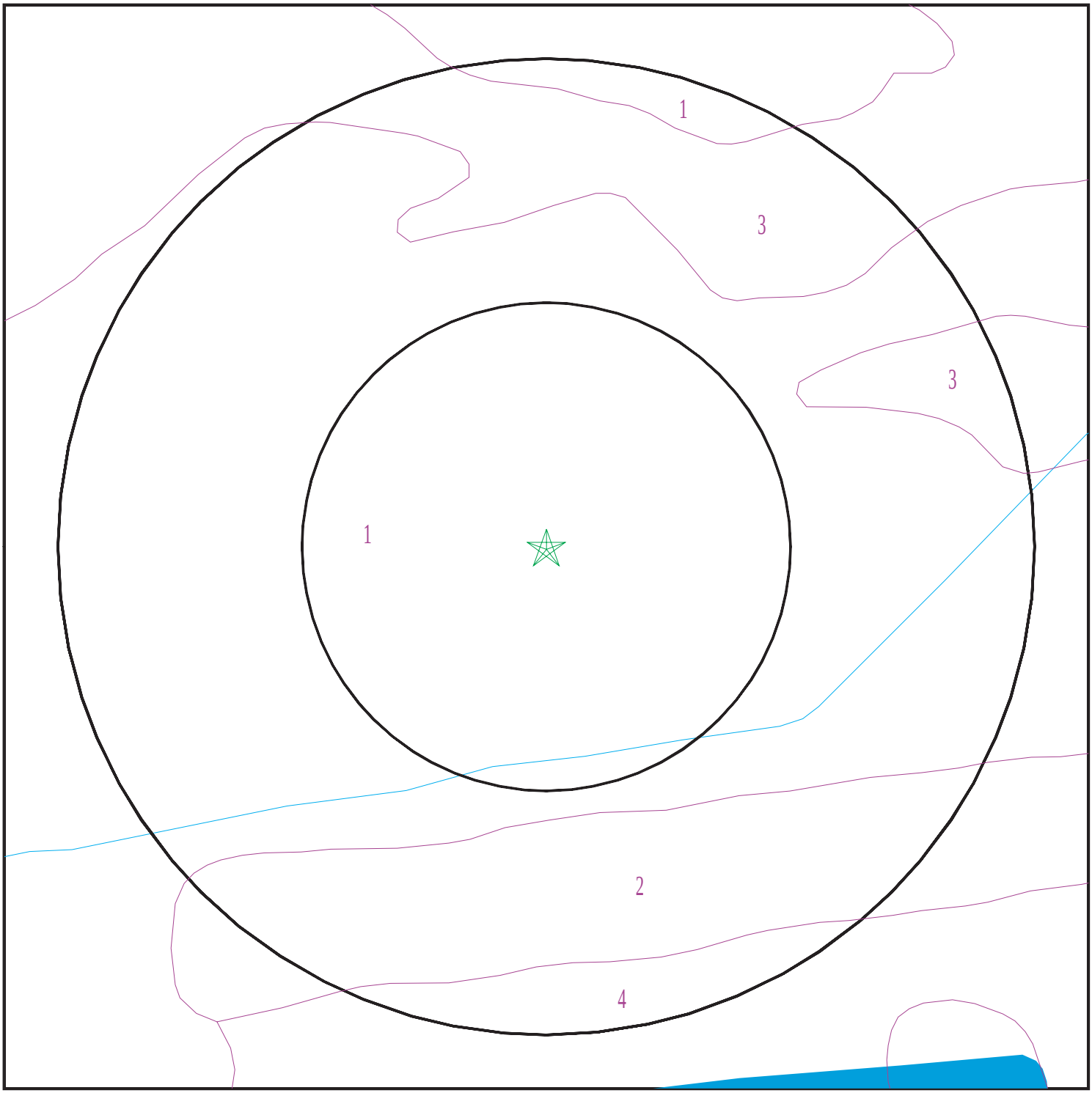
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

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 - 5657743.2s



Target Property
SSURGO Soil
Water

SITE NAME:	Oaks Business Park	CLIENT:	Ardent Environmental Group
ADDRESS:	NW of Stanley Blvd and Isabel Ave Livermore CA 94551	CONTACT:	Dennis Kawasaki
LAT/LONG:	37.679004 / 121.810857	INQUIRY #:	5657743.2s
		DATE:	May 20, 2019 1:57 pm

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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: Yolo

Soil Surface Texture: loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Riverwash

Soil Surface Texture: sand, gravel

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 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	5 inches	sand, gravel	Not reported	Not reported	Max: 705 Min: 141	Max: Min:
2	5 inches	59 inches	sand, gravel	Not reported	Not reported	Max: 705 Min: 141	Max: Min:

Soil Map ID: 3

Soil Component Name: Livermore

Soil Surface Texture: very gravelly coarse 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: Somewhat excessively 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	very gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

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	11 inches	33 inches	very gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	33 inches	59 inches	very gravelly loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

Soil Map ID: 4

Soil Component Name: Livermore

Soil Surface Texture: gravelly 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: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

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		
1	0 inches	11 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	11 inches	33 inches	very gravelly coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	33 inches	59 inches	very gravelly loamy coarse sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

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 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000184811	1/4 - 1/2 Mile NW
A2	USGS40000184813	1/4 - 1/2 Mile NW
5	USGS40000184816	1/4 - 1/2 Mile NE
D10	USGS40000184735	1/2 - 1 Mile ESE
11	USGS40000184726	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C12	USGS40000184872	1/2 - 1 Mile NNW
13	USGS40000184869	1/2 - 1 Mile NNW
15	USGS40000184812	1/2 - 1 Mile WNW
16	USGS40000184884	1/2 - 1 Mile North
17	USGS40000184822	1/2 - 1 Mile ENE
18	USGS40000184661	1/2 - 1 Mile SSE
19	USGS40000184730	1/2 - 1 Mile ESE
21	USGS40000184745	1/2 - 1 Mile West
E22	USGS40000184927	1/2 - 1 Mile North
23	USGS40000184825	1/2 - 1 Mile ENE
24	USGS40000184826	1/2 - 1 Mile WNW
25	USGS40000184914	1/2 - 1 Mile NNE
26	USGS40000184609	1/2 - 1 Mile SSE
F27	USGS40000184604	1/2 - 1 Mile SSW
28	USGS40000184637	1/2 - 1 Mile SW
F29	USGS40000184605	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

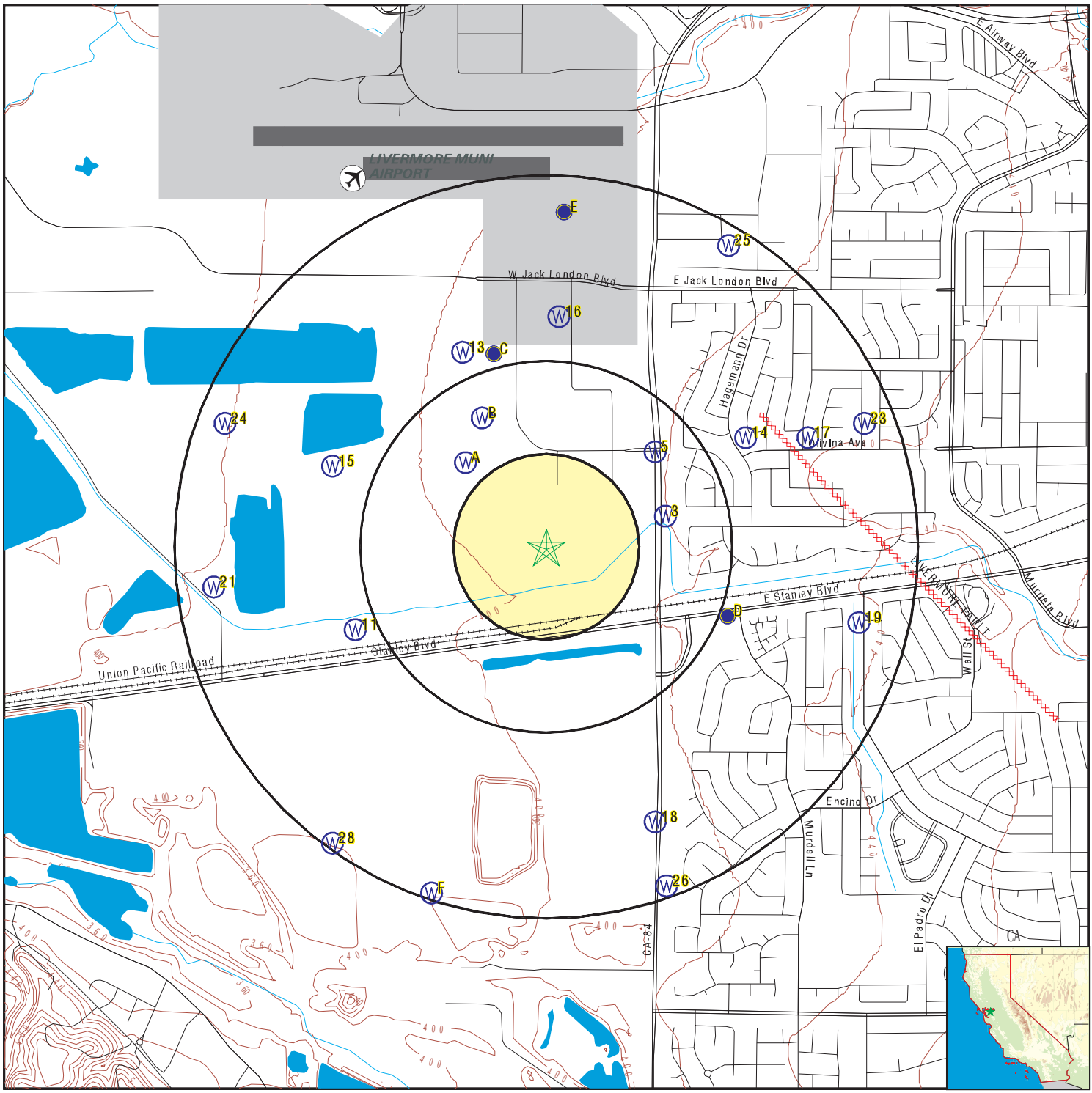
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	CADWR8000035772	1/4 - 1/2 Mile ENE
B4	CADWR8000035814	1/4 - 1/2 Mile NNW
B6	CADWR8000035817	1/4 - 1/2 Mile NNW
B7	CADWR8000035818	1/4 - 1/2 Mile NNW
C8	CADWR8000035842	1/2 - 1 Mile NNW
D9	CADWR8000035747	1/2 - 1 Mile ESE
14	3471	1/2 - 1 Mile ENE
E20	CADWR8000035884	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 5657743.2s



- 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:	Oaks Business Park	CLIENT:	Ardent Environmental Group
ADDRESS:	NW of Stanley Blvd and Isabel Ave Livermore CA 94551	CONTACT:	Dennis Kawasaki
		INQUIRY #:	5657743.2s
LAT/LONG:	37.679004 / 121.810857	DATE:	May 20, 2019 1:57 pm

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NW
1/4 - 1/2 Mile
Lower | **FED USGS** | **USGS40000184811**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12P001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19480216	Well Depth:	348
Well Depth Units:	ft	Well Hole Depth:	348
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	37	Level reading date:	1982-01-19
Feet below surface:	95.1	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1982-01-18	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	98.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	99.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	101.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	102.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-16	Feet below surface:	104.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	105.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	107.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	108.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	117.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-07-01	Feet below surface:	105.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	104.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	105.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	130.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	122.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	122.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	120.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	96.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	96.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-01-12	Feet below surface:	96.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported

A2
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000184813**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12P005M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	348
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

3
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR8000035772**

State Well #:	03S02E07N001M	Station ID:	46440
Well Name:	3S/2E 7N 1	Well Use:	Observation
Well Type:	Single Well	Well Depth:	130
Basin Name:	Livermore Valley	Well Completion Rpt #:	Not Reported

---

B4
NNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR8000035814**

State Well #:	03S01E12K002M	Station ID:	46398
Well Name:	3S/1E 12K 2	Well Use:	Observation
Well Type:	Single Well	Well Depth:	300
Basin Name:	Livermore Valley	Well Completion Rpt #:	none

5
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000184816**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E07N001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19790517	Well Depth:	136
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	71	Level reading date:	1982-01-29
Feet below surface:	95.8	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1982-01-19	Feet below surface:	101.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-20	Feet below surface:	114.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	115.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	115.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	115.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-30	Feet below surface:	113.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-02	Feet below surface:	113.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-26	Feet below surface:	109.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-23	Feet below surface:	108.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-19	Feet below surface:	101.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	91.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-20	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	90.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-06	Feet below surface:	90.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	89.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-22	Feet below surface:	89.4

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	38.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-09	Feet below surface:	88.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	86.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-12	Feet below surface:	86.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-07	Feet below surface:	86.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-06	Feet below surface:	86.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	86.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	86.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-14	Feet below surface:	86.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	86.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	87.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	86.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-17	Feet below surface:	87.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	88.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-03	Feet below surface:	90.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	91.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-18	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-02-11	Feet below surface:	90.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	90.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	90.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	90.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	88.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	88.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-27	Feet below surface:	88.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-19	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	90.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	91.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	105.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-03	Feet below surface:	106.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-01	Feet below surface:	109.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	114.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	114.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	113.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	109.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-08-30	Feet below surface:	93.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-23	Feet below surface:	91.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-20	Feet below surface:	90.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-16	Feet below surface:	89.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	89.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-09	Feet below surface:	89.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-06	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	87.6
Feet to sea level:	Not Reported	Note:	Not Reported

B6
NNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR8000035817**

State Well #:	03S01E12K003M	Station ID:	46399
Well Name:	3S/1E 12K 3	Well Use:	Observation
Well Type:	Single Well	Well Depth:	475
Basin Name:	Livermore Valley	Well Completion Rpt #:	Not Reported

---

B7
NNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR8000035818**

State Well #:	03S01E12K004M	Station ID:	46400
Well Name:	3S/1E 12K 4	Well Use:	Observation
Well Type:	Single Well	Well Depth:	575
Basin Name:	Livermore Valley	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C8
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000035842**

State Well #:	03S01E12G001M	Station ID:	46397
Well Name:	3S/1E 12G 1	Well Use:	Observation
Well Type:	Single Well	Well Depth:	73
Basin Name:	Livermore Valley	Well Completion Rpt #:	261450

D9
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000035747**

State Well #:	03S02E18E001M	Station ID:	46453
Well Name:	3S/2E 18E 1	Well Use:	Observation
Well Type:	Single Well	Well Depth:	134
Basin Name:	Livermore Valley	Well Completion Rpt #:	253972

D10
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184735**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E18E001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19770222	Well Depth:	134
Well Depth Units:	ft	Well Hole Depth:	134
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	117	Level reading date:	1981-12-21
Feet below surface:	89.9	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-16	Feet below surface:	89.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	88.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-30	Feet below surface:	88.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-07-28	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-29	Feet below surface:	87.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	87.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	87.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	87.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-14	Feet below surface:	87.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	87.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	87.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-16	Feet below surface:	77.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	86.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	86.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	86.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	86.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	86.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-02-03	Feet below surface:	86.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	85.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	86.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	85.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	85.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	85.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	85.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	84.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	84.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	84.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-25	Feet below surface:	83.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	83.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-10	Feet below surface:	83.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	82.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	82.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	81.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-10	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	79.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	78.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	77.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-06	Feet below surface:	77.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-01	Feet below surface:	77.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	77.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	77.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	77.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-21	Feet below surface:	77.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	77.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	77.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-20	Feet below surface:	77.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	77.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	78.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	79.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-06	Feet below surface:	80.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	80.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	80.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	80.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	80.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	79.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-11-19	Feet below surface:	80.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-26	Feet below surface:	80.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	81.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-01	Feet below surface:	80.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	80.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	80.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	80.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	79.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	79.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-20	Feet below surface:	77.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-16	Feet below surface:	78.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	78.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-09	Feet below surface:	78.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-06	Feet below surface:	78.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	77.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-16	Feet below surface:	77.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-07-02	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-13	Feet below surface:	77.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-21	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-14	Feet below surface:	77.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	78.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	78.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	78.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	78.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	79.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	79.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-19	Feet below surface:	79.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-08	Feet below surface:	80.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	80.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	80.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	81.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-08	Feet below surface:	81.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	81.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	81.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-11-20	Feet below surface:	81.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-01	Feet below surface:	86.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-05	Feet below surface:	99.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-31	Feet below surface:	107.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-28	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported

11
WSW **FED USGS** **USGS40000184726**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E13E001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19760608	Well Depth:	97
Well Depth Units:	ft	Well Hole Depth:	97
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	125	Level reading date:	1982-01-19
Feet below surface:	27.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	28.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	35.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	52.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-07	Feet below surface:	75.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-30	Feet below surface:	72.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-16	Feet below surface:	69.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	74.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	77.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-19	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-13	Feet below surface:	76.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-05	Feet below surface:	75.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	74.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-27	Feet below surface:	42.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	64.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-16	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	47.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-20	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	48.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-10	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	45.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	44.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	42.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	50.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-08-06	Feet below surface:	47.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-30	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	46.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-25	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-23	Feet below surface:	46.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-18	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-16	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-14	Feet below surface:	49.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-11	Feet below surface:	44.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-10	Feet below surface:	45.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-09	Feet below surface:	47.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	49.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	52.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	55.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	66.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-16	Feet below surface:	66.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	57.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-27	Feet below surface:	55.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-04-20	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	63.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	51.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	47.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-27	Feet below surface:	50.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	50.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	56.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	65.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	64.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	55.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-19	Feet below surface:	55.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	56.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	55.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	56.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-01	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	63.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	68.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-09-10	Feet below surface:	70.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	72.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	74.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	74.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	73.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-23	Feet below surface:	72.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-20	Feet below surface:	70.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-16	Feet below surface:	67.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	65.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-09	Feet below surface:	63.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-06	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	60.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-24	Feet below surface:	61.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-25	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-13	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-11	Feet below surface:	60.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-29	Feet below surface:	61.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-14	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	58.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	56.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-13	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	59.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	55.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	54.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-19	Feet below surface:	56.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-08	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	54.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-07	Feet below surface:	59.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	59.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	56.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	62.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-17	Feet below surface:	60.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-31	Feet below surface:	66.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	77.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-05	Feet below surface:	67.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-08	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-24	Feet below surface:	79.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-09-26	Feet below surface:	94.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-20	Feet below surface:	76.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-25	Feet below surface:	76.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	75.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-27	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-08	Feet below surface:	80.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-19	Feet below surface:	77.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	79.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-25	Feet below surface:	79.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-09	Feet below surface:	77.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	75.6
Feet to sea level:	Not Reported	Note:	Not Reported

C12
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184872**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12G001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751113	Well Depth:	73
Well Depth Units:	ft	Well Hole Depth:	73
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	142	Level reading date:	1981-12-21
Feet below surface:	62.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-18	Feet below surface:	62.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-02	Feet below surface:	62.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-26	Feet below surface:	60.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	58.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	56.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	55.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-29	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-03-06	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-17	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	59.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	60.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	60.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-25	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	59.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	59.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	58.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-11	Feet below surface:	58.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	57.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	57.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-10-14	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-02	Feet below surface:	56.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	55.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	55.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-15	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-06	Feet below surface:	54.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	54.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	54.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	54.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	54.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	54.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	55.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-07	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	56.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-20	Feet below surface:	57.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	58.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	59.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-02-25	Feet below surface:	60.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	60.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	61.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-31	Feet below surface:	62.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	62.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-03	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-19	Feet below surface:	61.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	61.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-22	Feet below surface:	60.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	58.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	58.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	58.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	58.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	58.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	60.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-08-01	Feet below surface:	61.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-09	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-02	Feet below surface:	60.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-11	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	61.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-29	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-14	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-04	Feet below surface:	61.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-30	Feet below surface:	61.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-26	Feet below surface:	61.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	67.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	62.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	62.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-27	Feet below surface:	62.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-19	Feet below surface:	62.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-08	Feet below surface:	63.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	63.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	63.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	63.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	63.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-01-30	Feet below surface:	63.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	64.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-07	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-04	Feet below surface:	63.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-07	Feet below surface:	64.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	64.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-02	Feet below surface:	64.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-15	Feet below surface:	64.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-08	Feet below surface:	64.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	68.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-21	Feet below surface:	68.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	68.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-23	Feet below surface:	68.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-15	Feet below surface:	68.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-12	Feet below surface:	67.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	67.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	66.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-01	Feet below surface:	66.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	66.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-07	Feet below surface:	66.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-09	Feet below surface:	64.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-15	Feet below surface:	64.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-03	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-11	Feet below surface:	57.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-15	Feet below surface:	59.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	63.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	63.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	63.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-09	Feet below surface:	63.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-25	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-17	Feet below surface:	64.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-30	Feet below surface:	65.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-12	Feet below surface:	63.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-13	Feet below surface:	63.3
Feet to sea level:	Not Reported	Note:	Not Reported

13
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184869**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12F001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19491001	Well Depth:	240
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	174	Level reading date:	1981-11-18

Feet below surface:	100.9	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-09-29	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-19	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	103.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	102.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	100.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	116.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	97.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	94.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	92.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-02-17	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	93.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	92.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	92.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-11	Feet below surface:	92.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	92.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	92.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-25	Feet below surface:	92.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	93.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-11	Feet below surface:	95.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	93.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-27	Feet below surface:	93.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	95.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-25	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	93.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-06-23	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-30	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	90.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	93.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-08	Feet below surface:	93.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	94.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-27	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-23	Feet below surface:	99.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	121.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	109.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-18	Feet below surface:	118.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-26	Feet below surface:	106.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-31	Feet below surface:	97.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-13	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	98.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	100.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-08	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	102.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-01-24	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-02	Feet below surface:	106.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-08	Feet below surface:	108.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-20	Feet below surface:	111.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-06	Feet below surface:	114.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	121.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	119.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-02	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-05	Feet below surface:	123.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-31	Feet below surface:	122.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-03	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-04	Feet below surface:	119.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	122.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-06	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-28	Feet below surface:	126.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-31	Feet below surface:	132.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-04	Feet below surface:	136.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	143.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-23	Feet below surface:	142.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-15	Feet below surface:	142.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-01	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-10-18	Feet below surface:	148.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-03	Feet below surface:	156.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-20	Feet below surface:	149.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-06	Feet below surface:	155.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	148.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-03	Feet below surface:	145.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-21	Feet below surface:	146.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-01	Feet below surface:	149.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-13	Feet below surface:	138.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-31	Feet below surface:	136.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-17	Feet below surface:	142.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-09	Feet below surface:	160.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-29	Feet below surface:	144.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-18	Feet below surface:	148.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-08	Feet below surface:	129.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-04	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-31	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	126.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-28	Feet below surface:	124.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-03	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-01-31	Feet below surface:	125.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-17	Feet below surface:	126.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-07	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-15	Feet below surface:	128.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-08	Feet below surface:	129.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-01	Feet below surface:	129.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-15	Feet below surface:	130.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-08	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-04	Feet below surface:	131.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-13	Feet below surface:	133.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-01	Feet below surface:	135.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-13	Feet below surface:	140.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-07	Feet below surface:	133.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-27	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-20	Feet below surface:	137.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-09	Feet below surface:	138.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-05	Feet below surface:	139.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-21	Feet below surface:	131.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-09	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-15	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-19	Feet below surface:	127.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-05-03	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-22	Feet below surface:	117.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-17	Feet below surface:	111.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-03	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-19	Feet below surface:	114.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-03	Feet below surface:	112.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-25	Feet below surface:	113.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-07	Feet below surface:	114.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-03	Feet below surface:	127.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-17	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-03	Feet below surface:	113.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-19	Feet below surface:	115.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	116.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	119.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-08	Feet below surface:	123.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-24	Feet below surface:	142.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-16	Feet below surface:	142.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	142.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	123.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-31	Feet below surface:	137.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	119.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-07-02	Feet below surface:	113.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-18	Feet below surface:	112.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-04	Feet below surface:	120.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-22	Feet below surface:	99.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-08	Feet below surface:	97.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-23	Feet below surface:	98.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-09	Feet below surface:	101.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-26	Feet below surface:	108.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-29	Feet below surface:	114.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-02	Feet below surface:	117.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-26	Feet below surface:	122.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-31	Feet below surface:	140.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-04	Feet below surface:	135.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	111.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	142.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	164.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-03-14	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	161.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-30	Feet below surface:	167.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-02	Feet below surface:	170.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-06	Feet below surface:	158.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-21	Feet below surface:	177.5
Feet to sea level:	Not Reported	Note:	Not Reported

14
ENE
1/2 - 1 Mile
Higher

CA WELLS 3471

Seq:	3471	Prim sta c:	03S/02E-07P03 M
Frds no:	0110003015	County:	01
District:	04	User id:	ENG
System no:	0110003	Water type:	G
Source nam:	WELL 24-01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	374100.0	Longitude:	1214800.0
Precision:	8	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:	0110003	System nam:	CALIFORNIA WATER SERVICE - LIVERMORE
Hqname:	CALIFORNIA WTR SERV CO	Address:	P O BOX 1150
City:	SAN JOSE	State:	CA
Zip:	95108	Zip ext:	Not Reported
Pop serv:	50670	Connection:	14951
Area serve:	LIVERMORE		
Sample date:	08-AUG-17	Finding:	3.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-JUN-17	Finding:	3.705
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-16	Finding:	3.855
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	04-MAY-16	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	140.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	04-MAY-16	Finding:	0.15
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-MAY-16	Finding:	16.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-MAY-16	Finding:	38.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	56.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	100.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	24.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	7.47
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	430.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	170.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JUL-15	Finding:	23.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C

Dlr:	0.		
Sample date:	17-JUL-15	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-JUL-15	Finding:	21.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	15-JUL-15	Finding:	7.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-APR-15	Finding:	7.78
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-APR-15	Finding:	20.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	29-JAN-15	Finding:	7.61
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-15	Finding:	20.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	27-JAN-15	Finding:	20.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	27-JAN-15	Finding:	7.57
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-JAN-15	Finding:	20.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	13-JAN-15	Finding:	7.85
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-DEC-14	Finding:	19.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	15-DEC-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-DEC-14	Finding:	1.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-DEC-14	Finding:	0.31
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	15-DEC-14	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-DEC-14	Finding:	0.65
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-AUG-14	Finding:	7.062
Chemical:	ZINC	Report units:	UG/L
Dlr:	50.		
Sample date:	14-AUG-14	Finding:	6.502
Chemical:	COPPER	Report units:	UG/L
Dlr:	50.		
Sample date:	14-AUG-14	Finding:	1.1e-002
Chemical:	CADMIUM	Report units:	UG/L
Dlr:	1.		
Sample date:	06-AUG-14	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	23-JUL-14	Finding:	7.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-APR-14	Finding:	7.53
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-FEB-14	Finding:	4.294
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	30-JAN-14	Finding:	7.49
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	20-NOV-13	Finding:	2.963
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	19-NOV-13	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	11.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	130.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	19-NOV-13	Finding:	16.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	19-NOV-13	Finding:	35.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	53.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	100.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-13	Finding:	430.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-OCT-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-13	Finding:	2.754
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	10-JUL-13	Finding:	7.36
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-MAY-13	Finding:	3.481
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	24-APR-13	Finding:	7.39
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-MAR-13	Finding:	7.46
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	7.46
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	13-FEB-13	Finding:	4.274
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	28-JAN-13	Finding:	7.83
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-NOV-12	Finding:	6.438
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	11-OCT-12	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	26-JUL-12	Finding:	7.39
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-12	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

15
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184812**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12N001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19500914	Well Depth:	304
Well Depth Units:	ft	Well Hole Depth:	304
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	12	Level reading date:	1980-10-09
Feet below surface:	85.7	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1980-06-06	Feet below surface:	86.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	79.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	85.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-29	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	93.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-13	Feet below surface:	85.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	132.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-03	Feet below surface:	114.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-14	Feet below surface:	132.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-18	Feet below surface:	114.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	108.5
Feet to sea level:	Not Reported	Note:	Not Reported

16
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000184884**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12H001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19580916	Well Depth:	342
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	89	Level reading date:	1982-01-29
Feet below surface:	94.0	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-18	Feet below surface:	95.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-11	Feet below surface:	96.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	97.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-28	Feet below surface:	98.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-17	Feet below surface:	99.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-07	Feet below surface:	100.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-11-30	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-16	Feet below surface:	102.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-09	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	103.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-19	Feet below surface:	103.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-13	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-05	Feet below surface:	105.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-21	Feet below surface:	104.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-14	Feet below surface:	104.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-31	Feet below surface:	104.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-26	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-17	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-10	Feet below surface:	102.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	103.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-27	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-20	Feet below surface:	103.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	102.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-06-29	Feet below surface:	101.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-22	Feet below surface:	101.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-16	Feet below surface:	101.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	101.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	100.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-20	Feet below surface:	99.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	95.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-30	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	95.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-28	Feet below surface:	95.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	95.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-03	Feet below surface:	94.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-12	Feet below surface:	96.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-09	Feet below surface:	95.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	95.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-20	Feet below surface:	93.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	90.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	93.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	111.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-09-25	Feet below surface:	109.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-11	Feet below surface:	99.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-16	Feet below surface:	98.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	130.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-20	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-18	Feet below surface:	123.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	134.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	121.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-15	Feet below surface:	135.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-25	Feet below surface:	111.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	134.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-24	Feet below surface:	150.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	130.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	176.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-30	Feet below surface:	122.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-20	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-30	Feet below surface:	175.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-22	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-25	Feet below surface:	169.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-25	Feet below surface:	130.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-03-24	Feet below surface:	142.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-13	Feet below surface:	171.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-25	Feet below surface:	149.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-27	Feet below surface:	178.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-20	Feet below surface:	140.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	172.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-25	Feet below surface:	151.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-07	Feet below surface:	194.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-30	Feet below surface:	149.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01	Feet below surface:	160.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-01	Feet below surface:	166.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-01	Feet below surface:	164.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-15	Feet below surface:	163.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-01	Feet below surface:	162.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-03	Feet below surface:	163.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06	Feet below surface:	162.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03	Feet below surface:	135.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported

17
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184822**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Monitor Location:	003S002E07P003M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19720330	Well Depth:	510
Well Depth Units:	ft	Well Hole Depth:	520
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	34	Level reading date:	1981-12
Feet below surface:	162	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1981-11	Feet below surface:	194
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10	Feet below surface:	232
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05	Feet below surface:	264
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04	Feet below surface:	138
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03	Feet below surface:	154
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02	Feet below surface:	160
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01	Feet below surface:	184
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12	Feet below surface:	181
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11	Feet below surface:	158
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-10	Feet below surface:	158.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09	Feet below surface:	196
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07	Feet below surface:	178
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05	Feet below surface:	184
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03	Feet below surface:	187
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-01	Feet below surface:	189
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09	Feet below surface:	203
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05	Feet below surface:	148
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	150.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10	Feet below surface:	196
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-01	Feet below surface:	240
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-08	Feet below surface:	240.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03	Feet below surface:	172
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09	Feet below surface:	220
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04	Feet below surface:	195
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-01	Feet below surface:	210
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-01	Feet below surface:	176
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-01	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04	Feet below surface:	160
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-01	Feet below surface:	232
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03	Feet below surface:	188
Feet to sea level:	Not Reported	Note:	Not Reported

18
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184661**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12J001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	305
Well Depth Units:	ft	Well Hole Depth:	305
Well Hole Depth Units:	ft		

19
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184730**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E18B001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19610130	Well Depth:	485
Well Depth Units:	ft	Well Hole Depth:	497
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	79	Level reading date:	1981-12
Feet below surface:	160	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1981-11	Feet below surface:	179
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10	Feet below surface:	179
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09	Feet below surface:	166
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-23	Feet below surface:	167
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05	Feet below surface:	149
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04	Feet below surface:	139
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03	Feet below surface:	139
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01	Feet below surface:	143
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12	Feet below surface:	151
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11	Feet below surface:	154
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-10	Feet below surface:	163.3

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10	Feet below surface:	169
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09	Feet below surface:	176
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07	Feet below surface:	154
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06	Feet below surface:	151
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05	Feet below surface:	159
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-04	Feet below surface:	161.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04	Feet below surface:	162
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03	Feet below surface:	164
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02	Feet below surface:	159
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01	Feet below surface:	155
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-04	Feet below surface:	191.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09	Feet below surface:	191
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06	Feet below surface:	150
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	152.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	179.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09	Feet below surface:	186
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05	Feet below surface:	162
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	170.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10	Feet below surface:	224
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-30	Feet below surface:	195.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-03-11	Feet below surface:	173.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03	Feet below surface:	168
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-04	Feet below surface:	191.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07	Feet below surface:	208
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04	Feet below surface:	176
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-10	Feet below surface:	177.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-19	Feet below surface:	190.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07	Feet below surface:	212
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04	Feet below surface:	168
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-25	Feet below surface:	166.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-13	Feet below surface:	197.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08	Feet below surface:	220
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04	Feet below surface:	160
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-22	Feet below surface:	163.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-09	Feet below surface:	194.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09	Feet below surface:	212
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04	Feet below surface:	180
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	170.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	200.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10	Feet below surface:	208
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04	Feet below surface:	176
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-03-13	Feet below surface:	175.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11	Feet below surface:	248
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-10	Feet below surface:	252.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-05	Feet below surface:	172
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-20	Feet below surface:	174.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-01	Feet below surface:	218
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-08	Feet below surface:	220
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03	Feet below surface:	200
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-09	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05	Feet below surface:	192
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10	Feet below surface:	240
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-01	Feet below surface:	180
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11	Feet below surface:	200
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05	Feet below surface:	172
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11	Feet below surface:	232
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04	Feet below surface:	184
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11	Feet below surface:	208
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06	Feet below surface:	184
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04	Feet below surface:	184
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09	Feet below surface:	196
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-04	Feet below surface:	172
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10	Feet below surface:	236
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04	Feet below surface:	192
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11	Feet below surface:	228
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06	Feet below surface:	180
Feet to sea level:	Not Reported	Note:	Not Reported

E20
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000035884**

State Well #:	03S01E12A002M	Station ID:	46396
Well Name:	3S/1E 12A 2	Well Use:	Observation
Well Type:	Single Well	Well Depth:	69
Basin Name:	Livermore Valley	Well Completion Rpt #:	261450

21
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000184745**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E14A002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19770605	Well Depth:	210
Well Depth Units:	ft	Well Hole Depth:	220
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	9	Level reading date:	1981-08-19
Feet below surface:	88.3	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-06-08	Feet below surface:	87.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-27	Feet below surface:	83.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-07	Feet below surface:	84.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-27	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-06-05	Feet below surface:	83.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-18	Feet below surface:	82.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	93.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-27	Feet below surface:	124.9
Feet to sea level:	Not Reported	Note:	Not Reported

E22
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000184927**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E12A002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19751105	Well Depth:	68.7
Well Depth Units:	ft	Well Hole Depth:	75
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	62	Level reading date:	1981-12-21
Feet below surface:	37.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-11-18	Feet below surface:	40.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	40.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-01	Feet below surface:	39.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-29	Feet below surface:	40.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-27	Feet below surface:	39.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-02	Feet below surface:	38.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-07	Feet below surface:	37.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-06	Feet below surface:	36.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-12-12	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-21	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	34.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-19	Feet below surface:	32.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	29.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-07	Feet below surface:	28.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-14	Feet below surface:	31.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	34.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-28	Feet below surface:	38.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-11	Feet below surface:	37.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	35.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	34.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-13	Feet below surface:	33.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	33.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	32.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	32.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	30.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	30.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-31	Feet below surface:	38.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-05	Feet below surface:	36.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-04	Feet below surface:	36.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-04-13	Feet below surface:	36.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-05	Feet below surface:	38.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-16	Feet below surface:	41.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-08	Feet below surface:	43.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-05	Feet below surface:	39.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-04	Feet below surface:	43.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-07	Feet below surface:	42.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-06	Feet below surface:	41.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-02	Feet below surface:	38.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-14	Feet below surface:	41.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	44.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-20	Feet below surface:	51.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	50.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	50.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-15	Feet below surface:	49.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-12	Feet below surface:	47.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-29	Feet below surface:	46.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	45.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-02	Feet below surface:	41.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-21	Feet below surface:	46.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	42.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-09	Feet below surface:	48.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	48.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-03	Feet below surface:	45.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-11	Feet below surface:	37.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-15	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-08	Feet below surface:	45.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	43.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-13	Feet below surface:	41.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-09	Feet below surface:	36.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	33.9
Feet to sea level:	Not Reported	Note:	Not Reported

23
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184825**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E07K001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19381001	Well Depth:	230
Well Depth Units:	ft	Well Hole Depth:	230
Well Hole Depth Units:	ft		

24
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184826**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E11J001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19490101	Well Depth:	207
Well Depth Units:	ft	Well Hole Depth:	207
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	176	Level reading date:	1980-03-24
Feet below surface:	83.3	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1980-03-17	Feet below surface:	83.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	83.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-03	Feet below surface:	83.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	84.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-18	Feet below surface:	85.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-08	Feet below surface:	85.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-04	Feet below surface:	85.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	85.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	86.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	86.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-20	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-19	Feet below surface:	87.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-27	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-23	Feet below surface:	90.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	95.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-17	Feet below surface:	102.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-18	Feet below surface:	99.9

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-26	Feet below surface:	94.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-31	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-18	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-09	Feet below surface:	86.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-27	Feet below surface:	89.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	89.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-14	Feet below surface:	90.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-08	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-06	Feet below surface:	91.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-30	Feet below surface:	91.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-24	Feet below surface:	92.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-18	Feet below surface:	92.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-02	Feet below surface:	94.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-08	Feet below surface:	97.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-20	Feet below surface:	99.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-06	Feet below surface:	101.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	120.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-15	Feet below surface:	106.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-18	Feet below surface:	110.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-02	Feet below surface:	109.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-07-05	Feet below surface:	107.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-31	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	104.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-03	Feet below surface:	100.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-04	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	103.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-06	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-28	Feet below surface:	105.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-31	Feet below surface:	109.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-04	Feet below surface:	112.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-06	Feet below surface:	119.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-23	Feet below surface:	117.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-15	Feet below surface:	117.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-01	Feet below surface:	119.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-18	Feet below surface:	127.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-03	Feet below surface:	130.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-20	Feet below surface:	131.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-06	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-22	Feet below surface:	129.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-18	Feet below surface:	124.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-03	Feet below surface:	130.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-07-21	Feet below surface:	127.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-01	Feet below surface:	117.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-13	Feet below surface:	123.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-31	Feet below surface:	113.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-17	Feet below surface:	114.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-29	Feet below surface:	124.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-18	Feet below surface:	111.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-07	Feet below surface:	109.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-04	Feet below surface:	108.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	110.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-03	Feet below surface:	118.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-28	Feet below surface:	118.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-14	Feet below surface:	107.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-03	Feet below surface:	106.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-31	Feet below surface:	106.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-17	Feet below surface:	107.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-07	Feet below surface:	108.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-15	Feet below surface:	109.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-08	Feet below surface:	110.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-01	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-15	Feet below surface:	111.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-11-08	Feet below surface:	111.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-04	Feet below surface:	112.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-12	Feet below surface:	111.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-01	Feet below surface:	113.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-13	Feet below surface:	121.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-27	Feet below surface:	122.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-20	Feet below surface:	113.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-09	Feet below surface:	124.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-05	Feet below surface:	115.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-09	Feet below surface:	111.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-10	Feet below surface:	124.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-03	Feet below surface:	102.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-22	Feet below surface:	108.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-07	Feet below surface:	103.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-03	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-19	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-02	Feet below surface:	96.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-21	Feet below surface:	96.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-17	Feet below surface:	101.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-03	Feet below surface:	112.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-12-17	Feet below surface:	96.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-03	Feet below surface:	94.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-19	Feet below surface:	97.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	98.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-24	Feet below surface:	101.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-08	Feet below surface:	102.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-24	Feet below surface:	116.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-16	Feet below surface:	105.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-27	Feet below surface:	104.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-13	Feet below surface:	113.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-31	Feet below surface:	110.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-16	Feet below surface:	99.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-02	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-18	Feet below surface:	97.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-04	Feet below surface:	102.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-22	Feet below surface:	89.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-08	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-23	Feet below surface:	86.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-09	Feet below surface:	88.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-26	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-11	Feet below surface:	91.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-02-26	Feet below surface:	93.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-13	Feet below surface:	94.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-29	Feet below surface:	96.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	98.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-02	Feet below surface:	100.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-26	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	109.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-26	Feet below surface:	99.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-26	Feet below surface:	123.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-15	Feet below surface:	111.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-25	Feet below surface:	138.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-14	Feet below surface:	115.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	150.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-05	Feet below surface:	124.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-02	Feet below surface:	128.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-03	Feet below surface:	134.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-21	Feet below surface:	134.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-25	Feet below surface:	110.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-30	Feet below surface:	127.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-01	Feet below surface:	117.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-26	Feet below surface:	119.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-04-25	Feet below surface:	118.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-30	Feet below surface:	122.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-24	Feet below surface:	112.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-08	Feet below surface:	120.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-23	Feet below surface:	107.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-29	Feet below surface:	130.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-16	Feet below surface:	109.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	133.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-21	Feet below surface:	128.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-14	Feet below surface:	138.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-03	Feet below surface:	114.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-05	Feet below surface:	131.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-24	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-18	Feet below surface:	114.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-16	Feet below surface:	91.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-06	Feet below surface:	105.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-31	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-23	Feet below surface:	86.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-21	Feet below surface:	81.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-17	Feet below surface:	113.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-25	Feet below surface:	88.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-10-16	Feet below surface:	102.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-05	Feet below surface:	85.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-03	Feet below surface:	125.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-26	Feet below surface:	81.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-10	Feet below surface:	84.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-21	Feet below surface:	103.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-03	Feet below surface:	106.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-04	Feet below surface:	106.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-01	Feet below surface:	89.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-04	Feet below surface:	85.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-29	Feet below surface:	83.6
Feet to sea level:	Not Reported	Note:	Not Reported

25
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000184914**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E07C001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19401001	Well Depth:	280
Well Depth Units:	ft	Well Hole Depth:	280
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	100	Level reading date:	1981-12-21
Feet below surface:	28.4	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-12-08	Feet below surface:	9.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-02	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-09-29	Feet below surface:	28.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-11	Feet below surface:	10.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-31	Feet below surface:	28.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	27.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-29	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-09	Feet below surface:	8.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-02	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-01	Feet below surface:	27.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-20	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-30	Feet below surface:	7.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	27.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-26	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-28	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	27.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	27.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-17	Feet below surface:	27.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-10	Feet below surface:	8.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-03	Feet below surface:	27.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-12	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	27.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-10-14	Feet below surface:	26.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-09	Feet below surface:	8.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	26.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-26	Feet below surface:	26.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	26.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-12	Feet below surface:	7.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-02	Feet below surface:	26.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	25.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-06	Feet below surface:	25.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	25.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-15	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	6.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	25.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-25	Feet below surface:	6.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	24.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	24.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-23	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-20	Feet below surface:	24.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	3.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-10-04	Feet below surface:	10.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-17	Feet below surface:	6.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-07	Feet below surface:	10.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	11.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-16	Feet below surface:	9.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-03	Feet below surface:	19.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-16	Feet below surface:	36.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-05	Feet below surface:	18.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-11	Feet below surface:	9.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-23	Feet below surface:	13.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-25	Feet below surface:	7.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	12.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	6.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-24	Feet below surface:	12.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-16	Feet below surface:	13.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-02	Feet below surface:	29.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-03	Feet below surface:	15.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-13	Feet below surface:	21.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-23	Feet below surface:	24.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-28	Feet below surface:	26.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-30	Feet below surface:	25.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-10-07	Feet below surface:	38.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-08	Feet below surface:	50.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-26	Feet below surface:	50.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-22	Feet below surface:	51.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-26	Feet below surface:	58.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-03	Feet below surface:	53.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-03	Feet below surface:	55.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-24	Feet below surface:	54.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-14	Feet below surface:	56.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-25	Feet below surface:	56.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-29	Feet below surface:	62.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-18	Feet below surface:	53.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	56.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-18	Feet below surface:	60.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-07	Feet below surface:	65.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-28	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-28	Feet below surface:	61.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-27	Feet below surface:	52.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-22	Feet below surface:	51.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-15	Feet below surface:	35.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-05	Feet below surface:	39.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-04-03	Feet below surface:	17.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-22	Feet below surface:	18.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-20	Feet below surface:	13.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-17	Feet below surface:	33.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-26	Feet below surface:	20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-17	Feet below surface:	21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-27	Feet below surface:	13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-04	Feet below surface:	36.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-26	Feet below surface:	17.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-09	Feet below surface:	41.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-11	Feet below surface:	33.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-18	Feet below surface:	37.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-29	Feet below surface:	28.5
Feet to sea level:	Not Reported	Note:	Not Reported

26
SSE **FED USGS** **USGS40000184609**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S002E19D006M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	85	Level reading date:	1981-11-16
Feet below surface:	85.5	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1981-09-08	Feet below surface:	84.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-21	Feet below surface:	80.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	84.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	83.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-16	Feet below surface:	82.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	82.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	82.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-19	Feet below surface:	81.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-12	Feet below surface:	81.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-05	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-28	Feet below surface:	81.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-21	Feet below surface:	81.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	81.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	81.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-31	Feet below surface:	82.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-27	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-17	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-10	Feet below surface:	83.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	82.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-25	Feet below surface:	82.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-02-17	Feet below surface:	82.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-10	Feet below surface:	82.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-03	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-27	Feet below surface:	82.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-19	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-12	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-05	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-29	Feet below surface:	82.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-22	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-16	Feet below surface:	82.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-09	Feet below surface:	82.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-05	Feet below surface:	81.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	81.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	82.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-11	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-04	Feet below surface:	81.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-24	Feet below surface:	8.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-14	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-29	Feet below surface:	78.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-15	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-11	Feet below surface:	79.5
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-09-02	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-18	Feet below surface:	77.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-06	Feet below surface:	76.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-01	Feet below surface:	76.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-21	Feet below surface:	76.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-08	Feet below surface:	75.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-30	Feet below surface:	75.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-16	Feet below surface:	75.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	75.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	75.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-04	Feet below surface:	75.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-20	Feet below surface:	76.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-07	Feet below surface:	76.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-24	Feet below surface:	76.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-10	Feet below surface:	79.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-11	Feet below surface:	88.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-28	Feet below surface:	88.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-15	Feet below surface:	89.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-02	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	89.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-12-03	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-22	Feet below surface:	88.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-19	Feet below surface:	89.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-05	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-08	Feet below surface:	88.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-01	Feet below surface:	88.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	87.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-17	Feet below surface:	86.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-10	Feet below surface:	86.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-06	Feet below surface:	86.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-04	Feet below surface:	85.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-30	Feet below surface:	85.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-27	Feet below surface:	85.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-23	Feet below surface:	85.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-20	Feet below surface:	85.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-16	Feet below surface:	84.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-13	Feet below surface:	84.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-09	Feet below surface:	85.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-06	Feet below surface:	85.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	54.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-16	Feet below surface:	83.2
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F27
SSW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000184604**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E13P002M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19330101	Well Depth:	400
Well Depth Units:	ft	Well Hole Depth:	400
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	47	Level reading date:	1981-12-29
Feet below surface:	81.8	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1981-09-29	Feet below surface:	88.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-08	Feet below surface:	87.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-22	Feet below surface:	84.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-17	Feet below surface:	90.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-13	Feet below surface:	86.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-24	Feet below surface:	84.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-08	Feet below surface:	82.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	82.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-22	Feet below surface:	80.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-26	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-19	Feet below surface:	80.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-26	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-31	Feet below surface:	82.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-12-03	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-12	Feet below surface:	87.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-05	Feet below surface:	88.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-27	Feet below surface:	90.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-30	Feet below surface:	91.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-26	Feet below surface:	88.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-14	Feet below surface:	87.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-28	Feet below surface:	86.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-23	Feet below surface:	82.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-02	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-30	Feet below surface:	82.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-05	Feet below surface:	81.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-28	Feet below surface:	81.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-27	Feet below surface:	86.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-26	Feet below surface:	87.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-29	Feet below surface:	82.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-23	Feet below surface:	93.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	94.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-27	Feet below surface:	95.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-23	Feet below surface:	99.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-24	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-08-17	Feet below surface:	101.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-16	Feet below surface:	98.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-31	Feet below surface:	94.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-18	Feet below surface:	92.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-12	Feet below surface:	92.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-20	Feet below surface:	110.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-01	Feet below surface:	121.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-24	Feet below surface:	111.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-07	Feet below surface:	116.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-23	Feet below surface:	163.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-29	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-05	Feet below surface:	178.0
Feet to sea level:	Not Reported	Note:	Not Reported

28
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184637**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E13N001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Quaternary Alluvium	Aquifer Type:	Not Reported
Construction Date:	19250403	Well Depth:	498
Well Depth Units:	ft	Well Hole Depth:	498
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	1982-01-15
Feet below surface:	303.3	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-09-29	Feet below surface:	295.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-06-29	Feet below surface:	296
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-31	Feet below surface:	301.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-27	Feet below surface:	293.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-05	Feet below surface:	295.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-28	Feet below surface:	296.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-12	Feet below surface:	290.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-09	Feet below surface:	288.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-28	Feet below surface:	239.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-04	Feet below surface:	292.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-16	Feet below surface:	298.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-20	Feet below surface:	272.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-27	Feet below surface:	298.7
Feet to sea level:	Not Reported	Note:	Not Reported

F29
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000184605**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	003S001E13P001M	Type:	Well
Description:	Not Reported	HUC:	18050004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1947	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	652
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94551	7	0

Federal EPA Radon Zone for ALAMEDA 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 ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

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.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
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

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

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APPENDIX E

RESUMES

RESUME OF DENNIS T. KAWASAKI
Senior Project Scientist

EDUCATION

Bachelor of Arts, Environmental Analysis and Design, 2001, University of California, Irvine
Bachelor of Arts, Japanese Language and Literature, 2001, University of California, Irvine

REGISTRATION AND CERTIFICATIONS

OSHA 40-Hour Health and Safety Training (with annual updates)

EMPLOYMENT HISTORY

2001-2014 – Alta EM, Inc. (environmental consulting)
2014-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

As Senior Project Scientist for Ardent Environmental Group, Inc., Mr. Kawasaki manages and performs Phase I and Phase II Environmental Site Assessments projects as well as Phase III soil and groundwater remediation activities. Mr. Kawasaki also coordinates staff level geologists, scientists and subcontractors to complete the installation of groundwater monitoring wells, groundwater sampling, operation and monitoring of soil and groundwater remediation systems, soil gas assessments, and waste disposal. Mr. Kawasaki is familiar with various soil and groundwater remediation methods including, soil vapor extraction, dual phase extraction, air sparging, ozone air sparging, free product recovery via manual and passive skimmers, and pump and treat. As part of these tasks, Mr. Kawasaki interacts with clients, attorneys, and regulatory agency representatives. Mr. Kawasaki's project experience includes:

- **Former Dairy, Helendale, California:** Located along the Mojave River in the rural community of Helendale, decades of former dairy operations were identified by the Lahontan Regional Water Quality Control Board (LRWQCB) as a source for the areas elevated nitrate concentrations in the groundwater. Mr. Kawasaki was involved in maintaining compliance with a Cleanup and Abatement Order issued to the former dairy by the LRWQCB which included, sampling and monitoring of site wells for various analytes including nitrates and total dissolved solids (TDS), monitoring progress and reporting on the removal of large stockpiles of manure, and identification of over 30 residences within a LRWQCB established "study area" to be potentially impacted with elevated nitrate or TDS concentrations. Mr. Kawasaki sampled private supply wells and coordinated replacement of drinking water for those residents identified to have nitrate or TDS concentrations above the California Maximum Contaminate Levels (MCLs) for drinking water. Mr. Kawasaki also provided litigation support in defense of the former dairy by researching other potential sources which may have resulted in the elevated nitrates in the groundwater.

- **Former King Delivery, Inc., Los Angeles, California:** Mr. Kawasaki is the Project Manager for an on-going soil and groundwater investigation and remediation effort associated with a former leaking fuel underground storage tank (LUST). The investigation is being completed under the direction and oversight of the Los Angeles Regional Water Quality Control Board (LARWQCB). Although the extent of soil contamination has been found to be limited to the LUST site, the groundwater plume extends off-site beneath adjoining roadways, railroad right-of-way and properties. The investigation is further complicated as the groundwater plume extends onto a former Honeywell facility where elevated concentrations of chlorinated compounds are reported in the soil and groundwater. Mr. Kawasaki has coordinated the installation and sampling of groundwater monitoring wells, soil investigations and characterization, and remedial design and installation of a soil vapor extraction system.

- **A&H Dairy, El Mirage, California:** Located in the rural community of El Mirage, a Monitoring and Reporting Program was issued to the dairy by the LRWQCB. The program included the installation and sampling of groundwater monitoring wells at key locations throughout the dairy property. Mr. Kawasaki was involved in the installation of the groundwater monitoring wells which included oversight of the drilling activities, logging cuttings and collection of soil samples for lithological interpretation. Mr. Kawasaki also conducted the semi-annual groundwater monitoring as required by the LRWQCB. During the various groundwater monitoring events, it was discovered that elevated nitrates and hexavalent chromium exist at the site. The source of the hexavalent chromium was believed to be naturally occurring background concentrations but an existing aerospace facility located upgradient of the dairy was also suspected as a source. Mr. Kawasaki also assisted the United State Geological Survey to gather data at the site for research of background concentrations of hexavalent chromium in the area.

- **Baker General Store, Baker, California:** A former leaking gasoline underground storage tank resulted in a groundwater plume which extended beneath the adjoining roadway and properties. The investigation and remediation was completed under the direction and oversight of the LRWQCB. Mr. Kawasaki was involved with the installation and sampling of over 20 groundwater monitoring wells and soil borings to initially assess the extent of soil and groundwater. Mr. Kawasaki also coordinated and performed interim free product recovery via manual recovery and passive skimmers. While the free product removal was being conducted on an interim basis, a network of 24 air-sparge points and four vapor extraction wells were installed and connected to a soil vapor extraction (SVE) system. Mr. Kawasaki performed regular monitoring and maintenance of the SVE system and ensured that the equipment remained operational during the extreme hot and cold temperatures which were commonplace in the High Desert. Mr. Kawasaki also prepared quarterly remediation reports to the LRWQCB and annual compliance reports to the Mojave Desert Air Quality Management District. The site was successfully remediated and the case was closed by the LRWQCB.

- **Buy Rite Gasoline, Los Angeles, California:** Located within south-central Los Angeles, a former leaking gasoline underground storage tank resulted in a groundwater plume which extended beneath the adjoining roadway and commercial and residential properties. The on-going investigation and remediation is being completed under the direction and oversight of the LARWQCB. Mr. Kawasaki was involved in the initial assessment of the extent of soil and groundwater impacts during the installation and sampling of 15 groundwater monitoring

wells and five soil vapor extraction wells. Mr. Kawasaki also coordinated the installation of a dual phase extraction (DPE) system to remediate the soil and groundwater contaminants. The DPE system included an oil/water separator, air-sparge system, carbon treatment filters and catalytic oxidizer. Mr. Kawasaki also assisted with obtaining various permits which were required to operate the system including an industrial wastewater discharge permit through the City of Los Angeles, Industrial Waste Management Division to allow treated groundwater to be discharged into the City's sewer system and emissions permits through the South Coast Air Quality Management District. Mr. Kawasaki coordinated the inspections and resolved any compliance issues with regulatory agencies on a regular basis. Mr. Kawasaki also performed regular monitoring of the DPE system and performed maintenance and repairs on the various portions of the DPE system. The remediation activities have successfully reduced the free product thicknesses from over 15 feet to only a few inches, and significantly reduced the dissolved-phase groundwater plume.

- **Phase I Environmental Site Assessments:** Experienced with conducting and overseeing the completion of Phase I Environmental Site Assessments for various properties throughout California. Report preparation includes site reconnaissance activities involving visual site inspections, research and review of regulatory records and historical land use records, and identification of potential environmental concerns and impacts to the property.

ARDENT
ENVIRONMENTAL GROUP, INC.

RESUME OF JONATHAN ANDERSON

Senior Staff Geologist

EDUCATION

Bachelor of Arts, Geology, 2013, California State University, San Bernardino

REGISTRATIONS AND CERTIFICATIONS

OSHA 40-Hour Health and Safety Training (with annual updates)
EPA/AHERA Building Inspector, and Contractor/Supervisor
HAZWOPER 40-Hour Training (with annual updates)

EMPLOYMENT HISTORY

2013-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

Mr. Anderson has a strong background in geology, geography, chemistry, and physics which provides support in completing a variety of field and office tasks during environmental assessments, site characterization, and remediation projects. Tasks include development of work plans, drilling and sampling soil borings, installation and abandonment of groundwater monitoring wells, development and sampling of groundwater wells, collecting wipe and bulk building material samples, research and review of regulatory and historical land use records, directing subcontractors, data evaluation, and technical report preparation. Mr. Anderson's project experience includes:

- **Groundwater Monitoring and Vapor Extraction Well Installation:** Mr. Anderson has installed a number of groundwater monitoring wells and vapor extraction wells at properties throughout Southern California. The wells were installed to assess groundwater conditions and to characterize impacted media. Vapor extraction wells were part of a soil vapor extraction remediation systems. These tasks include obtaining well construction permits, interactions with regulatory agencies, directing drilling and surveyor contractors, and designing well construction. Following installation, groundwater monitoring wells are developed by various methods including bailing, surging, and pumping while monitoring water quality parameters.

- **Monitoring Well Abandonment:** Senior Staff Geologist for a property in Los Angeles involving the abandonment of groundwater monitoring and soil vapor wells. Duties include obtaining permits, directing subcontractors, and preparation of a well closure report for submittal to a regulatory agency.

- **Groundwater Monitoring:** Perform quarterly groundwater monitoring activities at facilities throughout Southern California. Depth to groundwater is measured with electric sounders before sampling. Wells are purged of static groundwater using submersible pumps and hand bailers. Groundwater is collected from monitoring wells and sent to a laboratory for analyses on a quarterly basis to determine the effectiveness of remedial actions at the properties.

Quarterly monitoring reports are prepared and are uploaded to the State's GeoTracker website.

- **Phase I Environmental Site Assessment:** Senior Staff Geologist for Phase I Environmental Site Assessment reports throughout Southern California. Report preparation includes site reconnaissance activities involving visual site inspection, research and review of regulatory records and historical land use records, and identification of potential environmental concerns and/or impacts to the site.

- **Phase II Site Characterization:** Staff Geologist for projects involving the advancement of soil borings by direct-push, MIP, and hollow stem auger methods to assess the nature, magnitude, and extent of soil contamination. These duties also include conducting soil gas surveys to assess vapor concentrations of volatile organic compounds (VOCs) for human health risks.

- **Asbestos Sampling:** Conducts surveys of commercial buildings to identify suspect asbestos-containing materials (ACM) and sampling of suspect materials for asbestos analysis. Performs air sampling to assess the concentration of asbestos fibers in air to assess general building conditions and for monitoring and clearance of asbestos abatement.

- **Mold Assessment:** Staff Geologist for the assessment of the presence and extent of mold contamination in commercial buildings. Includes moisture surveys using infrared scanning, direct moisture measurements using handheld instruments, and the collection of air samples for assessment of mold spore concentrations in air.

- **Soil Remediation:** As Senior Staff Geologist, Mr. Anderson was involved with a long-term soil remediation project that included the excavation of over 50,000 cubic yards of petroleum hydrocarbon impacted soil at a property in Downtown Los Angeles. Tasks associated with this project included the preparation, submittal, and implementation of a South Coast Air Quality Management District (SCAQMD) Site Specific Soil Mitigation Plan, daily soil monitoring and quantifying of VOC impacted soil discovered during excavation, providing manifests to disposal transportation companies, interacting with contractors and clients, as well as documenting the discovery and mitigation of unknown environmental concerns discovered during project oversight, including underground storage tanks (USTs) and hydraulic lifts. Mr. Anderson documented these activities in a final environmental grading report.

- **Soil Vapor Monitoring Point Installation and Sampling:** Mr. Anderson installed and sampled soil vapor monitoring points at a number of properties located throughout Southern and Northern California to further assess whether a vapor intrusion issue was present due to past and/or present site activities. This task included the installation of soil vapor monitoring points, purging stagnant air, and collecting vapor samples in Tedlar bags, Summa canisters, or by glass syringe for analysis by a mobile laboratory. Installation and sampling were conducted in accordance with current Department of Toxic Substances Control (DTSC) guidelines.

ASSOCIATIONS

The Geological Society of America