



INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION

FOR THE

INEZ ESTATES SUBDIVISION

June 2020

Prepared for:

City of Brentwood 150 City Park Way Brentwood, CA 94513 (925) 516-5400

Prepared by:

De Novo Planning Group 1020 Suncast Lane, Suite 106 El Dorado Hills, CA 95762 (916) 949-3231

De Novo Planning Group

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Proposed Mitigated Negative Declaration for the Inez Estates Subdivision

Lead Agency: City of Brentwood 150 City Park Way Brentwood, CA 94513

Project Title: Inez Estates Subdivision

Project Location: The Inez Estates Subdivision (project site) includes approximately 4.08 located in the northern portion of the City of Brentwood. The site is identified by Assessor's Parcel Numbers (APN) 018-080-022 and 018-080-025. The project site is bounded by Lone Tree Way to the north, Valley Oak Nursery to the west, ranch style residential to the south, and Gann Street to the east.

Project Description: Cyrus Land Investment, LLC, proposes to develop the Inez Estates Subdivision, (project, proposed project, proposal, or Inez Subdivision). The proposed project includes a Rezone and a Tentative Subdivision Map that would facilitate the development of 11 single-family residential parcels, three onsite bioretention areas, and dedication of land and construction of a new trail to the City's Trail System, and other related site improvements on approximately 4.08 acres. The average lot sizes would be approximately 10,067 square feet.

Access to the site would be via a proposed cul-de-sac road off of Gann Street, south of Lone Tree Way. Street lighting and sidewalks are proposed along the proposed interior street within the project site.

Findings:

In accordance with the California Environmental Quality Act, the City of Brentwood has prepared an Initial Study to determine whether the proposed project may have a significant adverse effect on the environment. The Initial Study and Proposed Mitigated Negative Declaration reflect the independent judgment of City of Brentwood staff. On the basis of the Initial Study, the City of Brentwood hereby finds:

Although the proposed project could have a significant adverse effect on the environment, there will not be a significant adverse effect in this case because the project has incorporated specific provisions to reduce impacts to a less than significant level and/or the mitigation measures described herein have been added to the project. A Mitigated Negative Declaration has thus been prepared.

The Initial Study, which provides the basis and reasons for this determination, is attached and/or referenced herein and is hereby made a part of this document.

Signature

Date

Proposed Mitigation Measures:

The following Mitigation Measures are extracted from the Initial Study. These measures are designed to avoid or minimize potentially significant impacts, and thereby reduce them to an insignificant level. A Mitigation Monitoring and Reporting Program (MMRP) is an integral part of project implementation to ensure that mitigation is properly implemented by the City and the implementing agencies. The MMRP will describe actions required to implement the appropriate mitigation for each CEQA category including identifying the responsible agency, program timing, and program monitoring requirements. Based on the analysis and conclusions of the Initial Study, the impacts of proposed project would be mitigated to less-than-significant levels with the implementation of the mitigation measures presented below.

AESTHETICS

Mitigation Measure AES-1: In conjunction with development of the proposed project, the developer shall shield all onsite lighting so that nighttime lighting is directed within the project site and does not illuminate adjacent properties. A detailed lighting plan shall be submitted for the review and approval by the Community Development Department and the Public Works Department in conjunction with the project improvement plans. The lighting plan shall indicate the locations and design of the shielded light fixtures.

AGRICULTURAL RESOURCES

Mitigation Measure AG-1: The Project applicant must preserve agricultural lands by paying an in-lieu fee established by City Council resolution. The fee may be adjusted annually but may not be increased by more than ten percent during any twelve-month period.

AIR QUALITY

Mitigation Measure AIR-1: Prior to the issuance of a grading permit, the Applicant/Developer shall prepare an Erosion Prevention and Dust Control Plan. The plan shall be followed by the project's grading contractor and submitted to the City of Brentwood's Public Works Department, which will be responsible for field verification of the plan during construction.

The plan shall comply with the City's grading ordinance and shall include the following control measures and other measures as determined by the Public Works Department to be necessary in order to achieve full compliance with the City's grading ordinance:

- Cover all trucks hauling construction and demolition debris from the site;
- Water all exposed or disturbed soil surfaces at least twice daily;
- Use watering to control dust generation during demolition of structures or break-up of pavement;
- Pave, apply water three time daily, or apply (non-toxic) soil stabilizers on all unpaved parking areas and staging areas;
- Sweep daily (with water sweepers) all paved parking areas and staging areas;
- Provide daily clean-up of mud and dirt carried onto paved streets from the site;
- Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.);
- Limit traffic speeds on unpaved roads to 15 mph;
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways;
- Replant vegetation in disturbed areas as quickly as possible;
- Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site;
- Install wind breaks, or plant trees/vegetative wind breaks at windward side(s) or construction areas;
- Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph;
- Limit the area subject to excavation, grading, and other construction activity at any one time;
- Unnecessary idling of construction equipment shall be avoided;
- Equipment engines shall be maintained in proper working condition per manufacturers' specifications;
- During periods of heavier air pollution (May to October), the construction period shall be lengthened to minimize the amount of equipment operating at one time within hours allowed by the City of Brentwood Municipal Code and General Plan;

• Where feasible, the construction equipment shall use cleaner fuels, add-on control devices and conversion to cleaner engines.

Mitigation Measure AIR-2: To the extent feasible, construction employees shall be hired from local populations, since it is more likely that they have been previously exposed to the fungus which causes Valley Fever and are therefore immune.

Mitigation Measure AIR-3: During periods of high dust in the grading phase, crews must use National Institute for Occupational Safety and Health (NIOSH) approved N95 masks or better or other more stringent measures in accordance with the California Division of Occupational Safety and Health regulations.

Mitigation Measure AIR-4: The operator cab of grading and construction equipment must be enclosed and airconditioned.

BIOLOGICAL RESOURCES

Mitigation Measure BIO-1: Prior to any ground disturbance, a qualified biologist shall conduct a preconstruction survey for San Joaquin kit fox. Preconstruction surveys will be conducted within 30 days of ground disturbance. Preconstruction survey requirements include but are not limited to mapping of all dens within the project site footprint and within a 250-foot radius of the project site, and the provision of written survey results to the USFWS within five working days after surveying. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the applicant shall consult with the USFWS and CDFW to establish a mitigation plan that meets the requirements established within the USFWS Standardized Recommendations for Protection of the endangered San Joaquin Kit Fox Pior to or During Ground Disturbance. Ground disturbing activities shall not commence until the USFWS and CDFW verify that all required mitigation and avoidance measures have been properly implemented.

Mitigation Measure BIO-2A: Prior to any ground disturbance related to activities covered under the ECCCHCP, a preconstruction survey of the 4.08-acre development plan area shall be completed. The surveys shall establish the presence or absence of western burrowing owl and/or habitat features, and evaluate use by owls in accordance with CDFW survey guidelines.

An approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995). On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500- foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near surrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1—August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1—January 31), surveys will document whether burrowing owls are area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted. If burrowing owls and/or suitable burrows are not discovered, then further mitigation is not necessary.

Mitigation Measure BIO-2B: If burrowing owls are found during the breeding season (February 1—August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 —January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below). During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing, if occupied burrows for burrowing owls are not avoided, passive relocation will be

implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Mitigation Measure BIO-3: Prior to any ground disturbance a pre-construction survey for covered migratory birds shall be completed. This survey shall be conducted in the morning or evening hours within 30 days prior to any construction activities. The entire site, including the alder tree and surrounding vegetation, will be surveyed for birds, nests and nesting behavior. Common nesting behavior by birds includes; collecting nesting materials, bringing food items to a nest and vocalizations from young or from adults to attract a mate and to establish or defend a nesting territory. A construction-free buffer of suitable dimensions must be established around any active migratory bird nests (up to 250 feet, depending on the location and species) for the duration of the project or until it has been determined that the chicks have fledged and are independent of their parents.

CULTURAL RESOURCES

Mitigation Measure CUL-1: Prior to grading permit issuance, the developer shall submit plans to the Community Development Department for review and approval which indicate (via notation on the improvement plans) that if historic and/or cultural resources are encountered during site grading or other site work, all such work shall be halted immediately within the area of discovery and the developer shall immediately notify the Community Development Department of the discovery. In such case, the developer shall be required, at their own expense, to retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the Community Development Department for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the area of discovery would not be allowed until the preceding work has occurred.

Mitigation Measure CUL-2: Pursuant to California Health and Safety Code §7050.5(c), if human bone or bone of unknown origin is found during construction, all work shall stop with 100 feet of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, then per California Public Resources Code §5097.98, the coroner shall notify the Native American Heritage Commission, who shall notify the person believed to be the most likely descendant. The most likely descendant shall work with the contractor to develop a program for reinternment of the human remains and any associated artifacts. Additional work is not to take place within 100 feet of the find until the identified appropriate actions have been implemented.

GEOLOGY AND SOILS

Mitigation Measure GEO-1: All project buildings shall be designed in conformance with the current edition of the California Building Code (CBC).

Mitigation Measure GEO-2: Prior to grading permit issuance, the applicant shall submit a final geotechnical evaluation of the project site that analyzes soil stability including soil expansion, and the potential for lateral spreading, subsidence, liquefaction or collapse. The report shall identify any on site soil and seismic hazards and provide design recommendations for onsite soil and seismic conditions. The geotechnical evaluation shall be reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.

Mitigation Measure GEO-3: All grading and foundation plans for the development shall be designed by a Civil and Structural Engineer and reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer prior to issuance of grading and building permits to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.

Mitigation Measure GEO-4: Prior to grading permit issuance, the applicant shall submit a final grading plan to the Director of Public Works/City Engineer for review and approval. If the grading plan differs significantly from the proposed grading illustrated on the approved project plans, plans that are consistent with the new revised grading plan shall be provided for review and approval by the Director of Public Works/City Engineer.

Mitigation Measure GEO-5: Any applicant for a grading permit shall submit an erosion control plan to the Director of Public Works/City Engineer for review and approval. The plan shall identify protective measures to be taken during construction, supplemental measures to be taken during the rainy season, the sequenced timing of grading and construction, and subsequent revegetation and landscaping work to ensure water quality in creeks and tributaries in the General Plan Area is not degraded from its present level. All protective measures shall be shown on the grading plans and specify the entity responsible for completing and/or monitoring the measure and include the circumstances and/or timing for implementation.

Mitigation Measure GEO-6: Grading, soil disturbance, or compaction shall not occur during periods of rain or on ground that contains freestanding water. Soil that has been soaked and wetted by rain or any other cause shall not be compacted until completely drained and until the moisture content is within the limit approved by a Soils Engineer. Approval by a Soils Engineer shall be obtained prior to the continuance of grading operations. Confirmation of this approval shall be provided to the Public Works Department prior to commencement of grading.

HAZARDS AND HAZARDOUS MATERIALS

Mitigation Measure HAZ-1: The project proponent shall implement soil excavation and disposal in accordance with section 4.3.3 Alternative 3 Soil Excavation/Off-site Disposal and section 5.0 Removal Action Implementation, as detailed in the Removal Work Action Plan included in Appendix H of this IS/MND. Prior to implementation of ground disturbing activities, a grading permit shall be obtained with the City of Brentwood for approval. Excavation work shall be conducted by a licensed grading contractor with current hazardous material certifications. Work activities will be conducted Monday – Friday between 7:00 AM and 6:00 PM.

Mitigation Measure HAZ-2: Prior to the transportation and disposal of contaminated soils, a hauling plan/permit shall be submitted to the City of Brentwood for approval. Transportation and disposal of soils shall be conducted in accordance with the Transportation Plan identified in Appendix B of the Removal Action Work Plan.

Mitigation Measure HAZ-3: Upon completion of soil excavation, disposal, and confirmation sampling, the project proponent shall prepare a Removal Action Completion Report documenting Site activities. The report shall provide all compiled laboratory data and disposal manifests for the project. The report shall be signed by a California Professional Engineer and/or Professional Geologist. The report shall be submitted to DTSC for review and approval. The City of Brentwood shall not permit any additional site grading or earthwork on the subject parcel until the City has received confirmation from DTSC that the remediation efforts have been satisfactorily completed, as required by the conditions established in both the RAW and VCA.

HYDROLOGY AND WATER QUALITY

Mitigation Measure HYD-1: Prior to issuance of grading permits, the contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP). The Developer shall file the Notice of Intent (NOI) and associated fee to the SWRCB. The SWPPP shall serve as the framework for identification, assignment, and implementation of BMPs. The contractor shall implement BMPs to reduce pollutants in stormwater discharges consistent with the requirements established in 15.52.60(F): Erosion and Sediment Control of the City's municipal code. The SWPPP shall be submitted to the Director of Public Works/City Engineer for review and approval and shall remain on the project site during all phases of construction. Following implementation of the SWPPP, the contractor shall subsequently demonstrate the SWPPP's effectiveness and provide for necessary and appropriate revisions, modifications, and improvements to reduce pollutants in stormwater discharges to the maximum extent practicable.

Mitigation Measure HYD-2: Prior to the completion of construction the applicant shall prepare and submit, for the City's review, an acceptable Stormwater Control Operation and Maintenance Plan. In addition, prior to the sale, transfer, or permanent occupancy of the site the applicant shall be responsible for paying for the long-term maintenance of treatment facilities, and executing a Stormwater Management Facilities Operation and Maintenance Agreement and Right of Entry in the form provided by the City of Brentwood. The applicant shall accept the responsibility for maintenance of stormwater management facilities until such responsibility is transferred to another entity.

The applicant shall submit, with the application of building permits, a draft Stormwater Facilities and Maintenance Plan, including detailed maintenance requirements and a maintenance schedule for the review and approval by the Director of Public Works/City Engineer. Typical routine maintenance consists of the following:

- Limit the use of fertilizers and/or pesticides. Mosquito larvicides shall be applied only when absolutely necessary.
- Replace and amend plants and soils as necessary to insure the planters are effective and attractive. Plants must remain healthy and trimmed if overgrown. Soils must be maintained to efficiently filter the storm water.
- Visually inspect for ponding water to ensure that filtration is occurring.
- After all major storm events, remove bubble-up risers for obstructions and remove if necessary.
- Continue general landscape maintenance, including pruning and cleanup throughout the year.
- Irrigate throughout the dry season. Irrigation shall be provided with sufficient quantity and frequency to allow plants to thrive.
- Excavate, clean and or replace filter media (sand, gravel, topsoil) to insure adequate infiltration rate (annually or as needed).

Mitigation Measure HYD-3: Design of both the on-site drainage facilities shall meet with the approval of both the Director of Public Works/City Engineer and the Contra Costa County Flood Control and Water Conservation District prior to the issuance of grading permits.

Mitigation Measure HYD-4: Contra Costa County Flood Control and Water Conservation District drainage fees for the Drainage Area shall be paid prior to issuance of grading permits to the satisfaction of the Director of Public Works/City Engineer.

Mitigation Measure HYD-5: The Applicant/Developer shall ensure that the project site shall drain into a street, public drain, or approved private drain, in such a manner that un-drained depressions shall not occur. Satisfaction of this measure shall be subject to the approval of the Director of Public Works/City Engineer.

Mitigation Measure HYD-6: The construction plans shall indicate roof drains emptying into a pipe leading to the project bioswale areas for the review and approval of the Director of Public Works/City Engineer prior to the issuance of building permits.

Mitigation Measure HYD-7: The improvement plans shall indicate concentrated drainage flows not crossing sidewalks or driveways for the review and approval of the Director of Public Works/City Engineer prior to the issuance of grading permits.

Noise

Mitigation Measure NOI-1: Prior to approval of project improvement plans, the improvement plans for the proposed project shall show that the first-row lots shall be shielded from the Lone Tree Way through the use of eight-foot tall masonry sound walls, constructed of materials that will achieve exterior noise levels of 65 dB Ldn, per the approval of the City Engineer. The approximate locations of these barriers are shown on Figure 7. Other types of barrier may be employed but shall be reviewed by an acoustical engineer prior to being constructed.

Mitigation Measure NOI-2: Construction activities shall be limited to the hours set forth below:

Monday-Friday 7:00 AM to 3:30 PM or until 5:30 PM with written approval from the City Engineer Saturday 8:00 AM to 5:00 PM with written approval from the City Engineer

Construction shall be prohibited on Sundays and City holidays. These criteria shall be included in the grading plan submitted by the applicant/developer for review and approval of the Community Development Director prior to issuance of grading permits. Exceptions to allow expanded construction activities shall be reviewed on a case-by-case basis as determined by the Chief Building Official and/or City Engineer.

Mitigation Measure NOI-3: The project contractor shall ensure that the following construction noise BMPs are met on-site during all phases of construction:

• All equipment driven by internal combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that

meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc welders, air compressors) shall be equipped with shrouds and noise- control features that are readily available for that type of equipment.

- All mobile or fixed noise-producing equipment used on the project site that are regulated for noise output by a federal, state, or local agency shall comply with such regulations while in the course of project activity.
- The construction contractor shall utilize "quiet" models of air compressors and other stationary noise sources where technology exists.
- At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from sensitive receptors and placed so that emitted noise is directed away from residences.
- Unnecessary idling of internal combustion engines shall be prohibited.
- Construction staging areas shall be established at locations that would create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.
- Construction site and access road speed limits shall be established and enforced during the construction period.
- The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.
- Project-related public address or music systems shall not be audible at any adjacent receptor.
- Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.
- The construction contractor shall designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.

Construction noise BMPs shall be included in the grading plan submitted by the developer for review and approval by the Community Development Director prior to grading permit issuance.

PUBLIC SERVICES

Mitigation Measure PUB-1: Prior to building permit issuance for any residential development, the developer shall submit to the Community Development Department written proof from the Liberty Union High School District and the Brentwood Union School District that appropriate school mitigation fees have been paid.

Mitigation Measure PUB-2: Prior to the recordation of final map(s), the project applicant shall pay the required park in-lieu fees as determined by the Parks and Recreation Department and the Community Development Department.

TRIBAL CULTURAL RESOURCES

Mitigation Measure TRI-1: If cultural resources are discovered during project-related construction activities, all ground disturbances within a minimum of 50 feet of the find shall be halted until a qualified professional archaeologist can evaluate the discovery. The archaeologist shall examine the resources, assess their significance, and recommend appropriate procedures to the lead agency to either further investigate or mitigate adverse impacts. If the find is determined by the lead agency in consultation with the Native American tribe traditionally and culturally affiliated with the geographic area of the project site to be a tribal cultural resource and the discovered archaeological resource cannot be avoided, then applicable mitigation measures for the resource shall be discussed with the geographically affiliated tribe. Applicable mitigation measures that also take into account the cultural values and meaning of the discovered tribal cultural resource, including confidentiality if requested by the tribe, shall be completed (e.g., preservation in place, data recovery program pursuant to PRC §21083.2[i]). During evaluation or mitigative treatment, ground disturbance and construction work could continue on other parts of the project site.

TABLE OF CONTENTS

Project Title3Purpose of the Initial Study3Project Location and Setting4Project Description5Environmental Factors Potentially Affected:15Determination:15Evaluation of Environmental Impacts:17Environmental Checklist:19I.AESTHETICS19I.AESTHETICS22IILAIR QUALITY25IV. BIOLOGICAL RESOURCES22IILAIR QUALITY25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VII.GEOLOGY AND SOILS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59X.LLAND USE AND PLANNING65XILININERAL RESOURCES66XII.NOISE66XII.NOISE66XII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVI.TRANSPORTATION89XVIILTRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98References100	INITIAL STUDY	
Project Location and Setting4Project Description5Environmental Factors Potentially Affected:15Determination:15Evaluation of Environmental Impacts:17Environmental Checklist:19LAESTHETICS19I.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59X.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVI.RECREATION89XVII.TRANSPORTATION89XVII.TRANSPORTATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	Project Title	
Project Description5Environmental Factors Potentially Affected:15Determination:15Evaluation of Environmental Impacts:17Environmental Checklist:19I.AESTHETICS19I.AESTHETICS19II.AIR QUALITY.25IV. BIOLOGICAL RESOURCES22III.AIR QUALITY.25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VLENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.WILDFIRE96XXIMANDATORY FINDINGS OF SIGNIFICANCE98	Purpose of the Initial Study	
Environmental Factors Potentially Affected:15Determination:15Evaluation of Environmental Impacts:17Environmental Checklist:19I.AESTHETICS19I.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY.25IV. BIOLOGICAL RESOURCES24V.CULTURAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVIII.TRIBAL CULTURAL RESOURCES91XI.WIDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	Project Location and Setting	
Determination:15Evaluation of Environmental Impacts:17Environmental Checklist:19I.AESTHETICS19I.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY.25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59X.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIILNOISE67XIV POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.WILDFIRE96XX.MANDATORY FINDINGS OF SIGNIFICANCE98	Project Description	5
Evaluation of Environmental Impacts:17Environmental Checklist:19IAESTHETICS19II.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE66XII.NOISE66XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVI.TRANSPORTATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXLMANDATORY FINDINGS OF SIGNIFICANCE98	Environmental Factors Potentially Affected:	
Environmental Checklist:19I.AESTHETICS19II.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY.25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VLENERGY42VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	Determination:	
I.AESTHETICS19II.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	Evaluation of Environmental Impacts:	
II.AGRICULTURE AND FORESTRY RESOURCES22III.AIR QUALITY25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	Environmental Checklist:	
III.AIR QUALITY.25IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES.40VI.ENERGY.42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY.59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING.82XV.PUBLIC SERVICES83XVI.RECREATION89XVII.TRIBAL CULTURAL RESOURCES.91XIX.UTILITIES AND SERVICE SYSTEMS.93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	I.AESTHETICS	
IV. BIOLOGICAL RESOURCES34V.CULTURAL RESOURCES40VIENERGY42VII.GEOLOGY AND SOILS46VIII.GEENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XILAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVI.RECREATION89XVII.TRANSPORTATION89XVII.TRIBAL CULTURAL RESOURCES91XIX.WILDFIRE96XX.MANDATORY FINDINGS OF SIGNIFICANCE98	II.AGRICULTURE AND FORESTRY RESOURCES	
V.CULTURAL RESOURCES40VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	III.AIR QUALITY	
VI.ENERGY42VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	IV. BIOLOGICAL RESOURCES	
VII.GEOLOGY AND SOILS46VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	V.CULTURAL RESOURCES	
VIII.GREENHOUSE GAS EMISSIONS51IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	VI.ENERGY	
IX.HAZARDS AND HAZARDOUS MATERIALS52X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	VII.GEOLOGY AND SOILS	
X.HYDROLOGY AND WATER QUALITY59XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	VIII.GREENHOUSE GAS EMISSIONS	51
XI.LAND USE AND PLANNING65XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	IX.HAZARDS AND HAZARDOUS MATERIALS	
XII.MINERAL RESOURCES66XIII.NOISE67XIV.POPULATION AND HOUSING82XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	X.HYDROLOGY AND WATER QUALITY	
XIII.NOISE	XI.LAND USE AND PLANNING	
XIV.POPULATION AND HOUSING	XII.MINERAL RESOURCES	
XV.PUBLIC SERVICES83XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	XIII.NOISE	
XVI.RECREATION88XVII.TRANSPORTATION89XVIII.TRIBAL CULTURAL RESOURCES91XIX.UTILITIES AND SERVICE SYSTEMS93XX.WILDFIRE96XXI.MANDATORY FINDINGS OF SIGNIFICANCE98	XIV.POPULATION AND HOUSING	82
XVII.TRANSPORTATION	XV.PUBLIC SERVICES	
XVIII.TRIBAL CULTURAL RESOURCES	XVI.RECREATION	
XIX.UTILITIES AND SERVICE SYSTEMS	XVII.TRANSPORTATION	
XX.WILDFIRE	XVIII.TRIBAL CULTURAL RESOURCES	
XXI.MANDATORY FINDINGS OF SIGNIFICANCE	XIX.UTILITIES AND SERVICE SYSTEMS	93
	XX.WILDFIRE	96
References	XXI.MANDATORY FINDINGS OF SIGNIFICANCE	
	References	

INITIAL STUDY

PROJECT TITLE

Inez Estates Subdivision Project

LEAD AGENCY NAME AND ADDRESS

City of Brentwood 150 City Park Way Brentwood, CA 94513

CONTACT PERSON AND PHONE NUMBER

Crystal De Castro, Associate Planner City of Brentwood Community Development Department (925) 516-5405

PROJECT SPONSOR'S NAME AND ADDRESS

Cyrus Land Investments, LLC c/o Brian Kesler 4021 Port Chicago HWY Concord, CA 94520 (925) 671-7711

PURPOSE OF THE INITIAL STUDY

An Initial Study (IS) is a preliminary analysis, which is prepared to determine the relative environmental impacts associated with a proposed project. It is designed as a measuring mechanism to determine if a project will have a significant adverse effect on the environment, thereby triggering the need to prepare an Environmental Impact Report (EIR). It also functions as an evidentiary document containing information, which supports conclusions that the project will not have a significant environmental impact or that the impacts can be mitigated to a "Less Than Significant" or "No Impact" level. If there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, the lead agency shall prepare a Negative Declaration (ND). If the IS identifies potentially significant effects, but: (1) revisions in the project plans or proposals would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur, and (2) there is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment, then a Mitigated Negative Declaration (MND) shall be prepared.

This Initial Study has been prepared consistent with CEQA Guidelines Section 15063, to determine if the proposed Inez Subdivision (project) may have a significant effect upon the environment. Based upon the findings and mitigation measures contained within this report, a Mitigated Negative Declaration (MND) will be prepared.

BACKGROUND

On July 22, 2014, the City of Brentwood City Council adopted a comprehensive General Plan Update, which was last updated in 1993 (a partial update involving the Growth Management, Land Use, and Circulation Elements was completed in 2001). An Environmental Impact Report (EIR) prepared for the General Plan Update, addressed the potential impacts associated with full build-out of the General Plan Land Use Diagram. The 2014 Brentwood General Plan Update EIR was certified by the Brentwood City Council on July 22, 2014. The General Plan Update Land Use Map designates the project site as Residential Very Low Density (R-VLD). Residential Very Low Density land uses are required to have a density of between 1.1 and 3.0 dwelling units per gross acre, with a mid-range of 2.0 units per gross acre. In accordance with Section 15150 of the CEQA Guidelines (Section 21083.3 of the Public Resources Code), this Initial Study will tier from the previously certified Environmental Impact Report (EIR) (SCH# 2014022058) prepared for the Brentwood General Plan Update.

PROJECT LOCATION AND SETTING

PROJECT LOCATION

The project site consists of approximately 4.08 acres located in the northern portion of the City of Brentwood. The project site is bounded by Lone Tree Way to the north, Valley Oak Nursery to the west, ranch style residential to the south, and Gann Street to the east. The project site can be identified by its Assessor's Parcel Numbers (APN) 018-080-022 and 018-080-025. The project's location is shown in Figure 1.

EXISTING SITE USES

The project site is currently vacant, undeveloped land that contained past agricultural uses. The project site contains a 20-foot sewer easement along the eastern boundary of the project site. A 30-foot ECCID (East Contra Costa Irrigation District) easement for agricultural and landscape irrigation water adjoins the southwestern boundary of the project site. There are a total of 13 trees on or just outside the project site According to the arborist report for the project site, 9 of the onsite trees are not worthy of retention, even if they are not to be impacted by the development; the remaining 4 onsite trees could be improved through pruning but are not considered to be highly desirable specimens. Figure 2 displays aerial views of the project site and surrounding area.

SURROUNDING LAND USES

The Brentwood General Plan designates lands adjacent to the project site as: Residential Very Low Density (R-VLD) and Park (P) to the east, Residential Very Low Density (R-VLD) to the south and west, Residential Low Density (R-LD) to the north of the project site. The existing General Plan Land Use Designation and Zoning Designation for the site, and the surrounding area, are shown on Figure 3.

Current uses within these areas include the Valley Oak Nursery to the west and single family residential to the north, east and south.

GENERAL PLAN DESIGNATIONS

The project site is currently designated Residential Very Low Density (R-VLD) by the City of Brentwood General Plan Land Use Map. The R-VLD designation accommodates fairly large lots for single family residences in an identifiable, suburban residential neighborhood, or cluster-style development designed with open space and other amenities. Neighborhoods with either development type will be part of the Brentwood urban area to be provided with urban public facilities and services. The permitted density range is 1.1 to 3.0 units per gross acre, with a midrange of 2.0 units per gross acre.

ZONING DESIGNATIONS

The project site is currently zoned (R-1-12) Single-Family Residential. As stated in Chapter 17.130 of the City's Municipal Code, the R-1-12 zone allows for single family residential type uses with a minimum lot area of twelve thousand square feet.

PROJECT DESCRIPTION

The proposed project consists of the subdivision of a 4.08-acre site into 11 single-family residential parcels (Figure 4). The resulting density would be 2.7 units per gross acre. The range of parcel sizes are 8,378 square feet to 15,567 square feet with an average lot size of approximately 10,067 square feet. The proposal also includes the dedication of land and construction of a new trail to the City's Trail System (Parcel A, as shown on Figure 4). All of the trees within the center of the project site and at the southwestern corner would be removed as part of the project. The trees along the perimeter at the northeastern corner would remain, with the exception of two trees to be removed. The project site would be re-landscaped with trees, shrubbery, grass and other common landscaping vegetation.

Additionally, an 8-foot sound wall is proposed to be located along Lone Tree Way along the northern portion of the project site. Additional proposed sound walls include an 8-foot sound wall along slightly over half of the western boundary of the project site. New fencing is proposed on the southeastern, southern, and southwestern boundaries of the project site at a height of 6 feet. The existing 3-foot wall at the northeastern corner and the 8 -foot wall along the eastern boundary of the project site will remain.

Access to the site would be via a proposed cul-de-sac road off of Gann Street, south of Lone Tree Way. Street lighting and sidewalks are proposed along the proposed interior street within the project site. A 5-foot public utility easement is proposed along the edge of the proposed internal street right-of-ways (ROWs). The proposed site plan layout is shown in Figure 4.

The proposed project would involve the construction of the necessary infrastructure to serve the proposed neighborhood and would include plans to connect to existing City infrastructure to provide water, sewer, and storm drainage to the site. The project includes installation of 8inch water and sanitary sewer lines and 18-inch storm drain lines within the internal street ROWs. The project site also includes three onsite bioretention areas ranging from approximately 854 square feet to 1,424 square feet at separate locations throughout the project site. Storm drainage would be conveyed to the bioretention areas and discharged to the City's storm drainage system. Various storm drainage supporting structures would be located throughout the project site directing the direction of flow into the bioretention areas and storm drain inlets.

REZONE

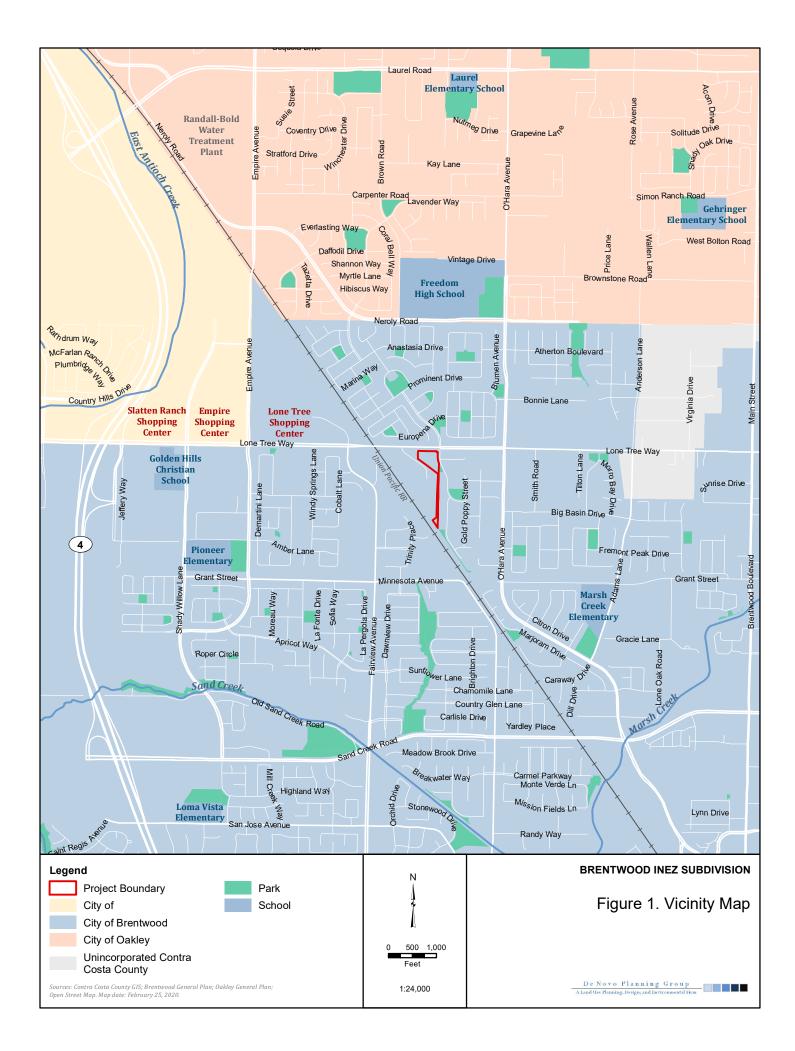
The proposed project requests a rezone from R-1-12 to Planned Development (PD). One of the purposes of the PD zone is to allow variations in the development standards to accommodate site-specific conditions and objectives. The proposal results in a density of 2.70 units per gross acre, which would be above the defined density mid-range of 2.0 units per gross acre. The rezoning to PD would allow the density to be increased, while remaining well within the boundaries established by the General Plan. Additionally, the dedication of land and construction of a new trail to the City's Trail System is proposed as a density transition in order to protect the integrity of existing land use patterns and minimize the impacts to the existing uses and residents, in accordance to General Plan Density Transition Policy (Action LU 2a).

REQUESTED ENTITLEMENTS AND OTHER APPROVALS

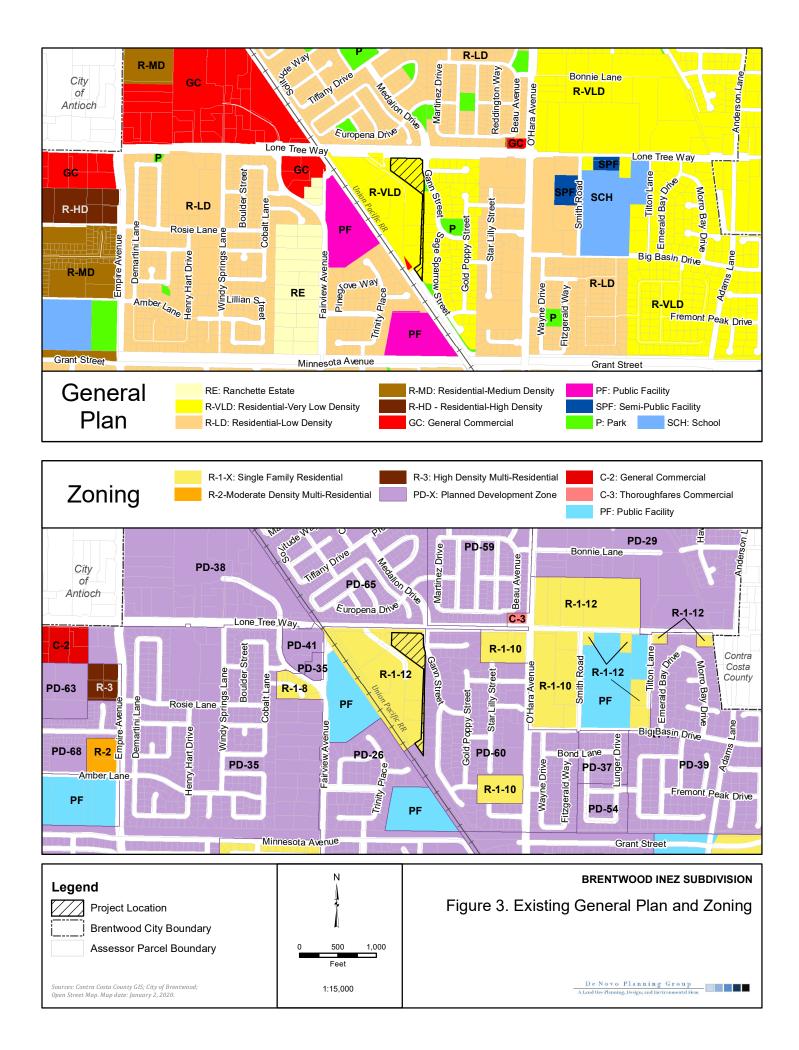
The City of Brentwood is the Lead Agency for the proposed project, pursuant to the State Guidelines for Implementation of the California Environmental Quality Act (CEQA), Section 15050.

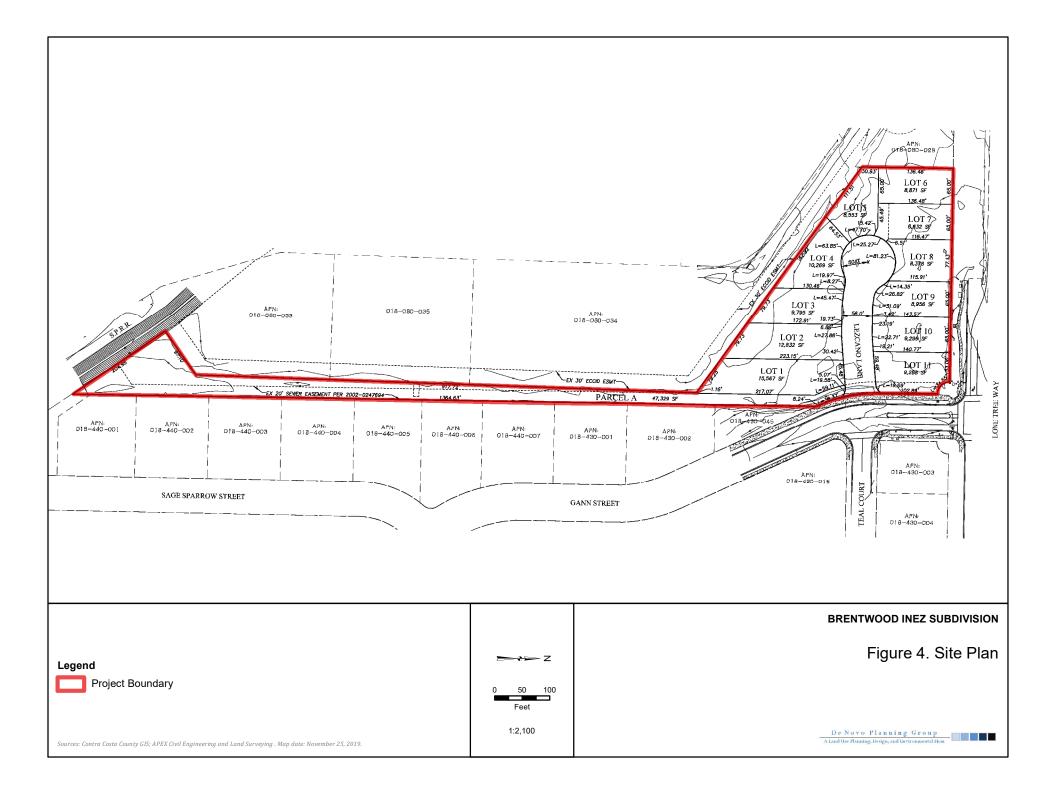
This document will be used by the City of Brentwood to take the following actions:

- Adoption of the Mitigated Negative Declaration (MND) and adoption of the Mitigation Monitoring and Reporting Program (MMRP)
- Approval of a Rezone to amend the Single-Family Residential (R-1-12) designation to a Planned Development (PD) with applicable development standards
- Approval of Tentative Subdivision Map 9435 to subdivide approximately 4.08 acres into 11 single-family detached residential parcels, as well as an approximately 47,329 square foot parcel (Parcel A) to be dedicated to the City of Brentwood in fee title for public park and trail purposes.









ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

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

Aesthetics	Agriculture and Forest Resources	Air Quality
Biological Resources	Cultural Resources	Geology/Soils
Greenhouse Gasses	Hazards and Hazardous Materials	Hydrology/Water Quality
Land Use/Planning	Mineral Resources	Noise
Population/Housing	Public Services	Recreation
Transportation/Traffic	Utilities/Service Systems	Mandatory Findings of Significance

DETERMINATION:

On the basis of this initial evaluation:

	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
Х	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An 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 or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

City of Brentwood

EVALUATION INSTRUCTIONS:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances).

Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than significance

EVALUATION OF ENVIRONMENTAL IMPACTS:

In each area of potential impact listed in this section, there are one or more questions which assess the degree of potential environmental effect. A response is provided to each question using one of the four impact evaluation criteria described below. A discussion of the response is also included.

- Potentially Significant Impact. This response is appropriate when there is substantial evidence that an effect is significant. If there are one or more "Potentially Significant Impact" entries, upon completion of the Initial Study, an EIR is required.
- Less than Significant With Mitigation Incorporated. This response applies when the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact". The Lead Agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level.
- Less than Significant Impact. A less than significant impact is one which is deemed to have little or no adverse effect on the environment. Mitigation measures are, therefore, not necessary, although they may be recommended to further reduce a minor impact.
- No Impact. These issues were either identified as having no impact on the environment, or they are not relevant to the Project.

ENVIRONMENTAL CHECKLIST

This section of the Initial Study incorporates the most current Appendix "G" Environmental Checklist Form, contained in the CEQA Guidelines. Impact questions and responses are included in both tabular and narrative formats for each of the 18 environmental topic areas.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?			Х	
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?			Х	
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			Х	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?		Х		

I. AESTHETICS -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Less than Significant. The City of Brentwood is located in the eastern valley area of Contra Costa County, immediately east of the Diablo Range, which includes Mount Diablo. The City of Brentwood has recognized views of Mount Diablo as an important visual resource to be preserved (see Policy COS 7-3 of the Conservation and Open Space Element of the Brentwood General Plan).

According to the 2014 Brentwood General Plan Update EIR and the California Scenic Highway Mapping System, administered by Caltrans, the City of Brentwood does not contain officially designated State Scenic Highways¹. However, it should be noted that the segment of State Route 4 (SR 4) located approximately 1.3 miles to the west of the project site is listed as an Eligible State Scenic Highway, but has not yet been officially designated. The project would not damage any scenic resources, such as trees, rock outcroppings, or historic buildings, within a State Scenic Highway, and is not a visible feature from the SR 4 corridor. Additionally, the project site is not designated as a scenic vista. The 2014 Brentwood General Plan Update EIR identifies SR 4 as a local scenic route due to the distant panoramic vistas of the Diablo Range and Mount Diablo in particular. Mount Diablo is located to the west of SR 4 and the proposed

¹ City of Brentwood. 2014 Brentwood General Plan Update EIR [pg. 3.1-5]. July 22, 2014.

project is located to the east of SR 4, and close to the northern edge of the city. As a result, the project structures would not impede views of Mount Diablo currently afforded to travelers along SR 4, or impede views of Mount Diablo from residents residing in the City of Brentwood.

The proposed project would not remove trees, rock outcroppings, and historic buildings within a state scenic highway, and is not designated as a scenic vista. Therefore, this is considered a **less than significant** impact.

Response c): Less than Significant. While the project site is current vacant, it is located within an urbanized area. The development of the site would change the existing visual setting from vacant land, to a suburban-scale residential setting consisting of 11 single family residential units. The proposed development would be considered compatible with other residential and commercial uses designated for the immediate vicinity of the project site, and existing commercial and residential development located near the project site. In addition, the proposed project is consistent with (R-VLD) land uses identified in the City's General Plan and General Plan Land Use Map. Implementation of the proposed project would alter the visual appearance on the project site through the removal of a limited number of trees and subsequent housing development. The proposed project is identified for urban land uses in the Brentwood General Plan. The proposed project is consistent with the overriding considerations that were adopted for the General Plan. As such, implementation of the proposed project would not create new impacts over and above those identified in the General Plan Final EIR nor significantly change previously identified impacts.

The final project design would be approved by the City through its design review process. Through this process the Planning Commission would ensure the design meets the criteria set forth in Municipal Code Section 17.820.007. As a result, development of the project site would result in a **less than significant** impact with respect to substantially degrading the existing visual character or quality of the site and its surroundings.

Response d): Less than Significant with Mitigation. The project site is void of structures and permanent light sources. As a result, no light or glare is currently emitted from the project site other than during active agricultural operations. The change from a vacant property to a residential development including 11 single family residences and associated street lighting would generate new permanent sources of light and glare. The project site is adjacent to single family residences to the north, east and south, and a nursery to the west. The structures located in the immediate vicinity of the site would be considered sensitive receptors, which could be adversely affected by additional sources of light and glare. However, the project would not include reflective building materials, and vehicle headlight glare would not be exacerbated given the existing level of traffic on Lone Tree Way, and landscaping and fencing that would contain project vehicle light sources. However, street and safety lighting located along the project streets may be visible from surrounding locations. Therefore, the increase in light produced by the proposed project would be considered potentially significant.

Implementation of Mitigation Measure AES-1 would reduce the potential impacts related to light and glare to **less than significant**.

Mitigation Measure(s)

Mitigation Measure AES-1: In conjunction with development of the proposed project, the developer shall shield all on-site lighting so that nighttime lighting is directed within the project site and does not illuminate adjacent properties. A detailed lighting plan shall be submitted for the review and approval by the Community Development Department and the Public Works Department in conjunction with the project improvement plans. The lighting plan shall indicate the locations and design of the shielded light fixtures.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?		Х		
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				Х
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), or timberland (as defined in Public Resources Code section 4526), or timberland zoned Timberland Production as defined by Government Code section 51104(g)?				Х
d) Result in the loss of forest land or conversion of forest land to non-forest use?				Х
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?			Х	

II. AGRICULTURE AND FOREST RESOURCES: WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a): Less than Significant with Mitigation. The 4.08-acre development plan area contained past agricultural operations that have since ceased. Figure 3.2-1 of the City of Brentwood General Plan EIR identifies the project site, as mapped by the USDA, as "other land." Other land is defined by the California Department of Conservation Farmland Mapping and Monitoring Program as: "land that is not included in any other mapping category. Common examples include low density rural developments; brush, timber, wetland, and riparian areas not suitable for livestock grazing; confined livestock, poultry or aquaculture facilities; strip mines, borrow pits; and water bodies smaller than forty acres. Vacant and nonagricultural land surrounded on all sides by urban development and greater than 40 acres is mapped as Other Land."

Additionally, the soils within the project site are Capay Clay (0 to 3 percent slopes), and a small amount of Rincon Clay (0 to 2 percent Slopes) located in the far eastern portion of the project site. According to the "Summary by Map Unit" included in the Contra Costa County Soil Survey, and Capay Clay and Rincon Clay soils are both Class II soils and considered prime farmland if irrigated as defined by the United States Department of Agriculture Natural Resource Conservation Service.

Development of the site for urban uses and the subsequent removal of prime farmland soil for agricultural use was taken into consideration in the City of Brentwood General Plan and General Plan EIR. Buildout of the General Plan would result in the conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide Importance to urban uses. The General Plan Draft EIR found this to be a significant and unavoidable impact. In June, 2014 the Brentwood City Council adopted a Statement of Overriding Considerations for the loss of prime agricultural land resulting from adoption of the Plan and EIR, and provided mitigation measures for the agricultural land lost to development in the City of Brentwood's urbanized areas.

Additionally, Section 17.730.020 of the City of Brentwood's Agricultural Preservation Program states that, "agricultural land" requiring mitigation, includes: "those land areas of Contra Costa County specifically designated as agricultural core (AC) or agricultural lands (AL) as defined in the Contra Costa County general plan; those land areas near the city designated as agricultural conservation (AC) as defined in the Brentwood general plan; and/or other lands upon which agricultural activities, uses, operations or facilities exist or could exist that contain Class I, II, III or IV soils as defined by the United States Department of Agriculture Natural Resource Conservation Service."

The proposed project is identified for urban land uses in the Brentwood General Plan. The proposed project is consistent with the overriding considerations that were adopted for the General Plan. As such, implementation of the proposed project would not create new impacts over and above those identified in the General Plan Final EIR, nor significantly change previously identified impacts, therefore, in this regard, there is no impact. However, the site contains Class II and Prime Agricultural soils. The proposed project is therefore subject to compliance with Chapter 17.730, Agricultural Preservation Program, of the Brentwood Municipal Code. Implementation of the following mitigation measure would bring the proposed project in compliance with Chapter 17.730 of the Brentwood Municipal Code. Thus, through implementation of Mitigation Measure AG-1, impacts related to this environmental topic are considered **less than significant**.

Mitigation Measure(s)

Mitigation Measure AG-1: The Project applicant must preserve agricultural lands by paying an in-lieu fee established by City Council resolution. The fee may be adjusted annually but may not be increased by more than ten percent during any twelve-month period.

Response b): No Impact. The project site is not under Williamson Act contract, nor is the site zoned for agricultural use. The current land use designation for the project site is Residential Very Low Density. Therefore, the project would have no impact with respect to conflicting with agricultural zoning or Williamson Act contracts. There is **no impact**.

Responses c) and d): No Impact. The project site is not considered forest land (as defined in Public Resources Code section 12220[g]), timberland (as defined by Public Resources Code 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. Therefore, there is **no impact**.

Responses e): Less than Significant. Individual project impacts to the loss of prime farmland are addressed through the proposed mitigation in item **a)** above. The proposed project would not be anticipated to promote off-site development of existing agricultural land because the proposed infrastructure is sized to serve only the project area. As stated previously, the project site is also surrounded by urban residential development on all sides, with the exception of the nursery to the west. Overall, the proposed project and urban land uses identified for the surrounding area are consistent with the overriding considerations that were adopted for the General Plan. As such, implementation of the proposed project would not create new impacts over and above those identified in the General Plan Final EIR, nor significantly change previously identified impacts related to agricultural resources. In addition, the project site is consistent with the type and intensity of land uses anticipated by the General Plan. Finally, the project site is not considered to be forest land. Therefore, the proposed project would result in a **less than significant** impact to the existing environment that could individually or cumulatively result in loss of farmland to non-agricultural uses or conversion of forest land to non-forest uses.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			Х	
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?			Х	
c) Expose sensitive receptors to substantial pollutant concentrations?		Х		
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			Х	

III. AIR QUALITY -- WOULD THE PROJECT:

EXISTING SETTING

The project site is located within the boundaries of the Bay Area Air Quality Management District (BAAQMD). This agency is responsible for monitoring air pollution levels and ensuring compliance with federal and state air quality regulations within the San Francisco Bay Area Air Basin (SFBAAB) and has jurisdiction over most air quality matters within its borders.

RESPONSES TO CHECKLIST QUESTIONS Response a): Less than Significant.

The SFBAAB is currently designated as a nonattainment area for State and federal ozone, State and federal particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State particulate matter 10 microns in diameter (PM_{10}) standards. The BAAQMD, in cooperation with the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG), prepared the 2005 Ozone Strategy, which is a roadmap depicting how the Bay Area will achieve compliance with the State one-hour air quality standard for ozone as expeditiously as practicable and how the region will reduce transport of ozone and ozone precursors to neighboring air basins. Although the California Clean Air Act does not require the region to submit a plan for achieving the State PM_{10} standard, the 2005 Ozone Strategy is expected to also reduce PM_{10} emissions. In addition, to fulfill federal air quality planning requirements, the BAAQMD adopted a $PM_{2.5}$ emissions inventory for year 2010, which was submitted to the U.S. Environmental Protection Agency (USEPA) on January 14, 2013, for inclusion in the State Implementation Plan (SIP).

The current plan in place to achieve progress toward attainment of the federal ozone standards is the *Revised San Francisco Bay Area Ozone Attainment Plan for the 1-Hour National Ozone Standard*. The USEPA recently revoked the 1-hour federal ozone standard; however, the region

is designated nonattainment for the new 8-hour standard that replaced the older one-hour standard. Until the region either adopts an approved attainment plan or attains the standard and adopts a maintenance plan, the *Revised San Francisco Bay Area Ozone Attainment Plan for the 1-Hour National Ozone Standard* remains the currently applicable federally-approved plan.

The aforementioned applicable air quality plans contain mobile source controls, stationary source controls, and transportation control measures (TCMs) to be implemented in the region to attain the State and federal ozone standards within the SFBAAB. The plans are based on population and employment projections provided by local governments, usually developed as part of the General Plan update process. The proposed project would be considered to conflict with, or obstruct implementation of, an applicable air quality plan if the project would be inconsistent with the Ozone Attainment Plan's growth assumptions, in terms of population, employment, or regional growth in Vehicle Miles Traveled (VMT). The growth assumptions are based on ABAG projections that are, in turn, based on the City's General Plan. The proposed project site was designated for Residential Very Low Density uses in the Brentwood General Plan in effect at the time ABAG projections were forecast. The proposed project is consistent with the growth assumptions of the applicable air quality plans. As a result, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans. This is a **less than significant** impact.

Responses b): Less than Significant. Air pollutant emissions related to the proposed project would include both construction phase emissions and, upon project buildout, operational emissions (such as from vehicle trips generated by the proposed project). Construction phase emissions would originate from mobile and stationary construction equipment exhaust, employee vehicle exhaust, dust from clearing and grading activities, wind-borne dust generated from exposed soils, and off-gassing from asphalt paving and painting. Construction-related emissions can vary substantially depending on the level of activity, length of the construction period, specific construction operations, types of equipment, number of personnel, wind and precipitation conditions, and soil moisture content. Operational air pollutant emissions of the proposed project would be generated by electricity use for the night lighting at the project site, and visitor vehicle exhaust. Both construction and operation of the proposed project would result in the generation of emissions of carbon monoxide (CO), reactive organic gases (ROG), nitrogen oxide (NOx), and particulate matter (PM_{10}). Emissions of ROG and NOx are referred to as "precursors" to ozone formation. These two pollutants, when released into the atmosphere, undergo photochemical reactions in the presence of sunlight to form ozone. These ozoneforming photochemical reactions do not occur as readily in the cooler months of the year, and therefore, emissions of ROG and NOx are of greatest concern during the warmer months of summer.

According to the CEQA Guidelines, an air quality impact may be considered significant if the proposed project's implementation would result in, or potentially result in, conditions, which violate any existing local, State or federal air quality regulations. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants

designated as nonattainment in the area, the BAAQMD has established significance thresholds associated with development projects for emissions of reactive organic gases (ROG), nitrogen oxide (NOx), PM₁₀, and PM_{2.5}. The BAAQMD's significance thresholds, expressed in pounds per day (lbs/day) for project-level and tons per year (tons/yr) for cumulative, listed in Table 1, are recommended for use in the evaluation of air quality impacts associated with proposed development projects.

Pollutant	Construction (lbs/day)	Operational (lbs/day)	Cumulative (tons/year)
ROG	54	54	10
NOx	54	54	10
PM10	82	82	15
PM _{2.5}	54	54	10

Table 1: BAAQMD Thresholds of Significance

Source: BAAQMD, CEQA Guidelines, May 2011.

In addition, the BAAQMD identifies screening criteria for development projects, which provide a conservative indication of whether a development could result in potentially significant air quality impacts. If the screening criteria are exceeded by a project, a detailed air quality assessment of that project's air pollutant emissions would be required. The project is made up of single-family residences. The screening criteria for a single-family residential development are if the development is less than or equal to the following screening level sizes:

- 325 dwelling units for operational criteria pollutants;
- 56 dwelling units for operational greenhouse gas (GHG) (addressed in Section VIII); or
- 114 dwelling units for construction criteria pollutants.

Accordingly, if a single-family development is less than or equal to the screening size for operational or construction criteria pollutants, or for operational GHG, the development would not be expected to result in potentially significant air quality impacts, and a detailed air quality assessment would not be required.

It should be noted that the BAAQMD was challenged in Superior Court, on the basis that the BAAQMD failed to comply with CEQA when it adopted its CEQA guidelines, including thresholds of significance. The BAAQMD was ordered to set aside the thresholds and conduct CEQA review of the proposed thresholds. On August 13, 2013, the First District Court of Appeal reversed the trial court's decision striking down BAAQMD's CEQA thresholds of significance for GHG emissions. The Court of Appeal held that CEQA does not require BAAQMD to prepare an EIR before adopting thresholds of significance to assist in the determination of whether air emissions of proposed projects might be deemed "significant." The Court of Appeal's decision provides the means by which BAAQMD may ultimately reinstate the GHG emissions thresholds, though the court's decision did not become immediately effective. A petition for review was filed in the matter; however, the California Supreme Court limited its review to a separate issue: Under what circumstances, if any, does CEQA require an analysis of how existing environmental conditions will impact future residents or users (receptors) of a proposed project? Ultimately, the thresholds of significance used to evaluate proposed developments are determined by the CEQA lead agency. Per CEQA Guidelines Section 15064.7, the City has elected to use the

BAAQMD's thresholds and methodology for this project, as they are based on substantial evidence and remain the most up-to-date, scientifically-based method available to evaluate air quality impacts. Thus, the BAAQMD's thresholds of significance presented in Table 1, and the screening criteria, are utilized for this analysis.

Implementation of the proposed project would contribute local emissions in the area during both the construction and operation of the proposed project. As the proposed project involves the development of 11 dwelling units, the project does not exceed the screening criteria for operational or construction-related criteria pollutants resulting from a single-family residential development. As such, the proposed project would not be expected to result in potentially significant operational or construction-related air quality impacts.

As discussed previously, the proposed projects falls under the screening criteria for operational and construction criteria air pollutants and precursors. BAAQMD has determined that if the project meets the screening criteria, the project would not result in the generation of operational-related criteria air pollutants and/or precursors that exceed the Thresholds of Significance. Therefore, implementation of the proposed project would result in a **less-than-significant** impact to air quality from criteria air pollutant and precursor emissions.

It should be noted that the project is required to comply with all BAAQMD rules and regulations for construction, including implementation of the BAAQMD's recommended Basic Construction Mitigation Measures. The Basic Construction Mitigation Measures include, but are not limited to, watering exposed surfaces, covering all haul truck loads, removing all visible mud or dirt track-out, limiting vehicle speeds on unpaved roads, and minimizing idling time.

Response c): Less than Significant with Mitigation. Emissions of carbon monoxide (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. CO emissions are particularly related to traffic levels.

In addition to screening criteria for criteria pollutants and GHG, BAAQMD has established screening criteria for localized CO emissions, including the following:

- Consistency with applicable congestion management programs;
- Project traffic increase traffic volumes at intersections to more than 44,000 vehicles per hour; or
- Project traffic increase traffic volumes at intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, underpass, etc.).

As the City has elected to use the BAAQMD's thresholds and methodology for this project, the BAAQMD's screening criteria for localized CO emissions presented above are utilized for this analysis.

A General Plan amendment is not required for the proposed project. The proposed density is consistent with the General Plan designation for the site, provided the Council approves the

request to develop above the mid-range. As such, the project would be considered consistent with the growth assumptions of the General Plan. Subsequently, the project would result in similar mobile source emissions as currently anticipated for the site. In addition, none of the affected intersections currently involve traffic volumes of 44,000 vehicles per hour (or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited), and would not increase traffic volumes greater than 44,000 vehicles per hour as a result of the proposed project. Therefore, according to the BAAQMD screening criteria above, the proposed project would not be expected to result in substantial increase in levels of CO at surrounding intersections, and the project would not generate or be subjected to localized concentrations of CO in excess of applicable standards.

Toxic Air Contaminants (TACs) are also a category of environmental concern. The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommendations for siting new sensitive land uses near sources typically associated with significant levels of TAC emissions, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. It should be noted that the project site is approximately one eighth-mile from the nearest railroad tracks; however, due to the lack of idling trains,² the CARB does not consider tracks to be a significant source of TAC emissions, and the project site is not located in the vicinity of a rail yard. 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. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure. Health-related risks associated with DPM in particular are primarily associated with long-term exposure and associated risk of contracting cancer.

Children, pregnant women, the elderly, and those with existing health problems are considered more sensitive to air pollution than others. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, day care centers, playgrounds, and medical facilities. The proposed project includes the development of single-family residences, the occupants of which would be considered sensitive receptors. Additionally, surrounding single family residences located just north, east and south of the project site would also be considered sensitive receptors within 500 feet of a major roadway or freeway may have the potential to expose those receptors to DPM. Similarly, the BAAQMD recommends placement of overlay zones at least 500 feet from all freeways and high volume roadways. The nearest freeway, SR 4, is located over 6,700 feet to the west of the project site. Therefore, the project site is not located

² The Union Pacific Railroad (UPRR) line bisects the City of Brentwood from the northwest corner of the City to the southeast corner of the City. This portion of the railroad line has not been in use since sometime prior to the year 2000. The line is maintained by UPRR as a standby route with no planned use for freight movement. Train idling does not occur in the vicinity of the project site.

within 500 feet of any freeway or high volume roadway, and would not be subjected to substantial concentrations of DPM associated with roadways.

The project does not involve long-term operation of any stationary diesel engine or other major on-site stationary source of TACs. Relatively few vehicle trips associated with operations of the proposed use would be expected to be composed of diesel-fueled vehicles. Therefore, the project would not generate any substantial concentrations of TACs during operations. Construction activities have the potential to generate DPM emissions related to the number and types of equipment typically associated with construction. Off-road heavy-duty diesel equipment used for site grading, paving, and other construction activities result in the generation of DPM. The residences located north and east of the project site would be considered the nearest existing sensitive receptors to the project site and could become exposed to DPM emissions from the site during construction activities. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. In addition, only portions of the site would be disturbed at a time during buildout of the proposed project, with operation of construction equipment regulated and occurring intermittently throughout the course of a day. Thus, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time would be very low. Because health risks associated with exposure to DPM or any TAC are correlated with high concentrations over a long period of exposure (e.g., over a 70-year lifetime), the temporary, intermittent construction-related DPM emissions would not be expected to cause any health risks to nearby sensitive receptors. Thus, construction of the proposed project would not expose any nearby existing sensitive receptors to any short-term substantial concentrations of TACs.

The City of Brentwood was previously advised of two serious cases of Valley Fever contracted during an archeological excavation near the southern City limit boundary. Valley Fever is an infection caused by inhalation of the spores of the *Coccidioides immitis fungus*, which grows in soils and are released during earthmoving. The fungus is very prevalent in the soils of California's San Joaquin Valley. The ecological factors that appear to be most conducive to survival and replication of the spores are high summer temperature, mild winters, sparse rainfall, and alkaline, sandy soils. Earth moving during development of the project site could put nearby residents at a greater risk of exposure to Valley Fever; however, because fungus spores need to become airborne in order to enter the respiratory tract of humans, and landscaping, building pads, and streets associated with the development would eliminate most fugitive dust, the threat is more serious for construction workers than for nearby residents. Residents living in close proximity to the project site during construction may be at risk of being exposed to the disease due to proximity and a relatively lower immunity. As a result, measures should be taken to reduce the potential for exposure of the disease during construction to both construction workers and nearby receptors. These include measures to control dust through construction site irrigation, soil stabilizers and landscaping. Paving roads, planting grass, and other measures that reduce dust where people live, work, or engage in recreation have been shown to reduce the incidence of infection. Sufficient wetting of the soil prior to grading activities can reduce exposure to airborne spores of the fungus.

Development of the project site could potentially expose construction workers and nearby residents to fungus spores that cause Valley Fever. Grading activities associated with development have the potential to release the fungus into the air, increasing the risk of infection to the surrounding population. Implementation of the project may result in human health impacts due to exposure to fungus spores which cause Valley Fever.

In conclusion, with the implementation of the following mitigations measures the proposed project would not expose sensitive receptors to substantial concentrations of any TACs after mitigation. Therefore, impacts related to exposure of sensitive receptors to substantial pollutant concentrations would be considered **less than significant with mitigation**.

Mitigation Measure(s)

Mitigation Measure AIR-1: Prior to the issuance of a grading permit, the Applicant/Developer shall prepare an Erosion Prevention and Dust Control Plan. The plan shall be followed by the project's grading contractor and submitted to the City of Brentwood's Public Works Department, which will be responsible for field verification of the plan during construction.

The plan shall comply with the City's grading ordinance and shall include the following control measures and other measures as determined by the Public Works Department to be necessary in order to achieve full compliance with the City's grading ordinance:

- Cover all trucks hauling construction and demolition debris from the site;
- Water all exposed or disturbed soil surfaces at least twice daily;
- Use watering to control dust generation during demolition of structures or break-up of pavement;
- Pave, apply water three time daily, or apply (non-toxic) soil stabilizers on all unpaved parking areas and staging areas;
- Sweep daily (with water sweepers) all paved parking areas and staging areas;
- Provide daily clean-up of mud and dirt carried onto paved streets from the site;
- Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.);
- Limit traffic speeds on unpaved roads to 15 mph;
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways;
- Replant vegetation in disturbed areas as quickly as possible;
- Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site;
- Install wind breaks, or plant trees/vegetative wind breaks at windward side(s) or construction areas;
- Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph;
- Limit the area subject to excavation, grading, and other construction activity at any one time;
- Unnecessary idling of construction equipment shall be avoided;

- Equipment engines shall be maintained in proper working condition per manufacturers' specifications;
- During periods of heavier air pollution (May to October), the construction period shall be lengthened to minimize the amount of equipment operating at one time, provided construction occurs within the hours allowed by the City of Brentwood Municipal Code and General Plan;
- Where feasible, the construction equipment shall use cleaner fuels, add-on control devices and conversion to cleaner engines.

Mitigation Measure AIR-2: To the extent feasible, construction employees shall be hired from local populations, since it is more likely that they have been previously exposed to the fungus which causes Valley Fever and are therefore immune.

Mitigation Measure AIR-3: During periods of high dust in the grading phase, crews must use National Institute for Occupational Safety and Health (NIOSH) approved N95 masks or better or other more stringent measures in accordance with the California Division of Occupational Safety and Health regulations.

Mitigation Measure AIR-4: The operator cab of grading and construction equipment must be enclosed and air-conditioned.

Response d): Less than Significant. According to the CARB's Handbook, some of the most common sources of odor complaints received by local air districts are sewage treatment plants, landfills, recycling facilities, waste transfer stations, petroleum refineries, biomass operations, autobody shops, coating operations, fiberglass manufacturing, foundries, rendering plants, and livestock operations. The proposed project site is located around developed areas and is surrounded by residential land uses that are generally not associated with objectionable odors; with the exception of the nursery located west of the project site which may occasionally produce minimal odors. However, these odors are not expected to be substantial objectionable odors or induce significant odor impacts as those mentioned above. Accordingly, the proposed project is not located in the vicinity of any substantial objectionable odor sources such as those mentioned above.

Operation of the proposed project would not generate notable odors. The proposed project is a residential development, which is compatible with the surrounding land uses. Residential land uses are not typically associated with the creation of substantial objectionable odors. Occasional mild odors may be generated during landscaping maintenance (equipment exhaust), but the project would not otherwise generate odors.

The proposed project is not anticipated to produce any objectionable odors (or other emissions) at buildout that would affect a substantial number of people. Construction activities associated with the proposed project, such as paving and painting, are likely to temporarily generate objectionable odors. Since odor-generating construction activities would be temporary, and are only likely to be detected by residents closest to the project site, impacts from temporary project-related odors are expected to be **less than significant** and no mitigation is required.

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

IV. BIOLOGICAL RESOURCES -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less than Significant with Mitigation. A biological field survey to assess site conditions was undertaken by De Novo Planning Group's Principal Biologist, Steve McMurtry, on December 17, 2019. The site was systematically searched by walking throughout the project site.

The property consists primarily of ruderal grasslands. The project site has been previously used for agricultural production. Due to cultivation practices, the site contains no high-quality habitat for covered and no take plant species. In addition, none of the covered or no-take plant species were observed during the site survey on December 17, 2019, and none are expected to occur on the site due to the site's history of heavy disturbance. According to Google Earth imagery, the project site is routinely mowed, which would preclude the establishment of special status plant species.

An Arborist Report and Tree Inventory Summary was completed for the project site by Traverso Tree Service in June 2018 (see Appendix A). According to the Report, there are a total of 13 trees that are on or just outside the property. The tree inventory consists of 3 young valley oaks and 1 mature blue oak in fair to good condition, and 8 mature Siberian elms and 1 mulberry all in poor condition. None of the trees identified on this site are desirable candidates for retention.

Special Status Plant Species

The planning survey revealed that the ruderal vegetation is dominated by non-native species. None of the covered or no-take species were found during the survey, and due to its disturbed state, the site is highly unlikely to contain any of these species. Potentially occurring specialstatus plant species listed in the East Contra Costa County Habitat Conservation Plan (ECCCHCP) for the grassland habitat type are not expected to occur on-site because of the heavy disturbance the site has received being under past intensive agricultural uses. Therefore, the project is not expected to impact any covered or no-take plants.

Special Status Wildlife Species

Based upon the on-site habitats, three covered wildlife species may occur on the project site. Each of these species is discussed below.

San Joaquin Kit Fox: The project site consists of annual grassland that is just within range of the San Joaquin kit fox (Vulpes macrotis mutica). There were no burrows or dens with evidence of kit fox occupancy (i.e. scat, tracks) or burrows or dens that meet the dimensional criteria for kit fox. The California Natural Diversity Database (CNDDB) does not identify any occurrences of the San Joaquin kit fox within one mile of the project site. Comprehensive inspection of potential den habitat was accomplished by walking meandering transects throughout the property. San Joaquin kit fox was not observed and they are presumed to be absent. Mitigation Measure BIO-1 will ensure that any potential impact is reduced to a **less than significant level**.

Western Burrowing Owl: The project site is within the range of western burrowing owl (Athene cunnicularia). The California Department of Fish and Wildlife's (CDFW's) CNDDB contains six occurrences of western burrowing owl within a mile of the site. The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Comprehensive inspection of potential western burrowing owl habitat was accomplished by walking meandering transects throughout the property. No western burrowing owls or potential burrows with evidence of burrowing owl occupancy were observed. Measures BIO-2A and 2B would ensure that any potential impact to western burrowing owls is reduced to a **less than significant level.**

Swainson's Hawk: The project site is along the extreme western edge of the range of Swainson's hawk (Bueto swainsoni). CNDDB contains one occurrence of Swainson's hawk within a mile of the site (located approximately 0.9 miles southeast of the site). The only potential nest trees in the site are some of the large trees at the center or along the project perimeter. There are only a few potential nest trees near and visible from the site. All of the trees in and visible from the site

were inspected for raptor stick nests. No raptor stick nests were observed in the onsite trees or offsite trees visible from the project site. Due to the location of the site along the extreme west edge of the Swainson's hawk nesting range, it is considered unlikely this species will nest in trees in or near the project site in the future. Mitigation Measures BIO-3 would ensure that any potential impact is reduced to a **less than significant level**.

None of the fully protected wildlife species listed in the HCP/NCCP have been observed or are likely to occur within the property. The site does not is not likely to provide adequate nesting habitat for any of the raptors (Swainson's hawk, white-tailed kite, peregrine falcon, or golden eagle); nor does it contain adequate habitat for ringtails.

Conclusion

Due to the disturbed nature of the project site's ruderal annual grassland cover type, suitable habitat does not exist to support special-status plant species known to occur within the annual grassland cover type of East Contra Costa County. While the presence of special- status wildlife species is relatively unlikely, based upon the current land cover types found on-site, in accordance with the ECCCHCP, wildlife species surveys are required to determine whether any special-status wildlife species are occupying the project site prior to initiating on-site ground disturbance and vegetation removal. If the necessary preconstruction surveys are not carried out, the project could result in a potentially significant 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 U.S. Fish and Wildlife Service (USFWS), or the CDFW. The following mitigation measures would reduce the above-stated special-status wildlife impacts to a **less than significant** level.

Mitigation Measure(s) San Joaquin Kit Fox

Mitigation Measure BIO-1: Prior to any ground disturbance, a qualified biologist shall conduct a preconstruction survey for San Joaquin kit fox. Preconstruction surveys will be conducted within 30 days of ground disturbance. Preconstruction survey requirements include but are not limited to mapping of all dens within the project site footprint and within a 250-foot radius of the project site, and the provision of written survey results to the USFWS within five working days after surveying. If San Joaquin kit foxes and/or suitable dens are identified in the survey area, the applicant shall consult with the USFWS and CDFW to establish a mitigation plan that meets the requirements established within the USFWS standardized Recommendations for Protection of the endangered San Joaquin Kit Fox Prior to or During Ground Disturbance. Ground disturbing activities shall not commence until the USFWS and CDFW verify that all required mitigation and avoidance measures have been properly implemented.

Burrowing Owl

Mitigation Measure BIO-2A: Prior to any ground disturbance related to activities covered under the ECCCHCP, a preconstruction survey of the 4.08-acre development plan area shall be completed.

The surveys shall establish the presence or absence of western burrowing owl and/or habitat features, and evaluate use by owls in accordance with CDFW survey guidelines.

An approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995). On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500- foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1—August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1—January 31), surveys will document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted. If burrowing owls and/or burrows are identified in the survey area, Mitigation Measure 3B shall be implemented. If burrowing owls and/or suitable burrows are not discovered, then further mitigation is not necessary.

Mitigation Measure BIO-2B: If burrowing owls are found during the breeding season (February 1 August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 — January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below). During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing, if occupied burrows for burrowing owls are not avoided, passive relocation will be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

Covered Migratory Birds

Mitigation Measure BIO-3: Prior to any ground disturbance a pre-construction survey for covered migratory birds shall be completed. This survey shall be conducted in the morning or evening hours within 30 days prior to any construction activities. The entire site and surrounding vegetation, will be surveyed for birds, nests and nesting behavior. Common nesting behavior by birds includes; collecting nesting materials, bringing food items to a nest and vocalizations from young or from adults to attract a mate and to establish or defend a nesting territory. A construction-free buffer of suitable dimensions must be established around any active migratory bird nests (up to 250 feet, depending on the location and species) for the duration of the project or until it has been determined by a qualified ornithologist that the chicks have fledged and are independent of their parents.

Responses b), c): Less than Significant. Riparian habitats are described as the land and vegetation that is situated along the bank of a stream or river. Wetlands are areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year. Wetlands usually must possess hydrophytic vegetation (i.e., plants adapted to inundated or saturated conditions), wetland hydrology (e.g., topographic low areas, exposed water tables, stream channels), and hydric soils (i.e., soils that are periodically or permanently saturated, inundated or flooded). Vernal pools are seasonal depressional wetlands that are covered by shallow water for variable periods from winter to spring, but may be completely dry for most of the summer and fall. Vernal pools range in size from small puddles to shallow lakes and are usually found in a gently sloping plain of grassland.

There is no aquatic habitat at the site and no jurisdictional waters or wetlands are present onsite, and no Army Corps of Engineers or Regional Water Quality Control Board (RWQCB) permits would be required relating to jurisdictional waters. As a result, the implementation of the proposed project would have a **less than significant** impact to any riparian habitat, seasonal wetlands, or vernal pools as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means.

Responses d): Less than Significant. While the proposed project would result in substantial development of the project site, the site is adjacent to existing developments. The project site provides limited opportunities for native, resident, or migratory wildlife to use as a movement corridor. The CNDDB record search did not reveal any documented wildlife corridors or wildlife nursery sites on or adjacent to the project site. Furthermore, the field survey did not reveal any wildlife nursery sites on or adjacent to the project site.

Given that the project site provides limited habitat due to previous cultivation, impacts related to the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impeding the use of wildlife nursery sites are considered **less than significant**.

Responses e), f): Less than Significant. Vegetation on the project site currently consists of ruderal vegetation. The site is within the boundaries of the ECCC HCP/NCCP. In July 2007 the ECCC HCP/NCCP was adopted by Contra Costa County, the City of Brentwood, other member cities, the USFWS and the CDFW. The ECCC HCP/NCCP provides guidance for the mitigation of

impacts to covered species. Mitigation of impacts is accomplished through the payment of a Development Fee. The Development Fee requires payment based on a cost per acre for all acres converted to non-habitat with the cost per acre based on the quality of the habitat converted. The fees are used to acquire higher value habitats in preserved areas and to fund their restoration and management. Because the City of Brentwood is a signatory to the ECCC HCP/NCCP, anticipated project impacts could be mitigated through the payment of Development Impact fees to the ECCC HCP/NCCP Conservancy. However, at the time that the ECCC HCP/NCCP was adopted, the site was mapped with a land cover designation of Urban, Turf, Landfill, or Aqueduct, and will not be assessed the Development Fee, as the site is not considered suitable for covered species habitat. Therefore, the proposed project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan, resulting in an impact that is **less than significant**.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?			Х	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?		Х		
c) Disturb any human remains, including those interred outside of formal cemeteries?		Х		

V. CULTURAL RESOURCES -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less than Significant with Mitigation. A record search was conducted for the project site and surrounding area through the Northwest Information Center (NWIC) of the California Historical Resources Information System on December 12, 2019 (NWIC file No.:19-0989) (see Appendix B). The record search indicates that the project site does not contain any recorded buildings or structures listed on the State Office of Historic Preservation Historic Property Directory (which includes listings of the California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and the National Register of Historic Places). In addition to these inventories, the NWIC base maps show no recorded buildings or structures within the proposed project area.

The 2014 Brentwood General Plan Update EIR identifies 24 historic properties in the Brentwood Planning Area. None of the 24 properties listed are within the proposed project site³. Since there are no existing buildings on the project site, there is nothing on that site that could be considered a "historical resource" under Section 15064.5 of the CEQA Guidelines.

For the above-stated reasons, development of the proposed project would have a **less than significant** impact on historical resources.

Responses b), c): Less than Significant with Mitigation. As noted above, a record search was conducted for the project area and surrounding area through the NWIC of the California Historical Resources Information System on December 12, 2019 (NWIC file No.:19-0989). There are no known sites in the project area or within a one-eighth mile radius of the project area.

Given that no known archaeological resources are associated with the project site, the subject parcel is considered of low archaeological sensitivity for prehistoric cultural resources. However, ground-disturbing activities may have the potential to uncover buried cultural deposits. As a result, during construction and excavation activities, previously unknown archaeological resources, including human bone, may be uncovered, resulting in a potentially significant impact.

³ City of Brentwood. 2014 Brentwood General Plan Update EIR [pg. 3.5-7]. July 22, 2014.

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

Mitigation Measure(s)

Mitigation Measure CUL-1: Prior to grading permit issuance, the developer shall submit plans to the Community Development Department for review and approval which indicate (via notation on the improvement plans) that if historic and/or cultural resources are encountered during site grading or other site work, all such work shall be halted immediately within the area of discovery and the developer shall immediately notify the Community Development Department of the discovery. In such case, the developer shall be required, at their own expense, to retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist shall be required to submit to the Community Development Department of the findings and method of curation or protection of the resources. Further grading or site work within the area of discovery would not be allowed until the preceding work has occurred.

Mitigation Measure CUL-2: Pursuant to California Health and Safety Code §7050.5(c), if human bone or bone of unknown origin is found during construction, all work shall stop with 100 feet of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, then per California Public Resources Code §5097.98, the coroner shall notify the Native American Heritage Commission, who shall notify the person believed to be the most likely descendant. The most likely descendant shall work with the contractor to develop a program for reinternment of the human remains and any associated artifacts. Additional work is not to take place within 100 feet of the find until the identified appropriate actions have been implemented.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?			Х	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			Х	

VI. ENERGY

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Appendix F of the State CEQA Guidelines requires consideration of the potentially significant energy implications of a project. CEQA requires mitigation measures to reduce "wasteful, inefficient and unnecessary" energy usage (Public Resources Code Section 21100[b][3]). According to Appendix F of the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed project would be considered "wasteful, inefficient, and unnecessary" if it were to violate state and federal energy standards and/or result in significant adverse impacts related to project energy requirements, energy inefficiencies, energy intensiveness of materials, cause significant impacts on local and regional energy standards, otherwise result in significant adverse impacts for additional capacity, fail to comply with existing energy standards, otherwise result in significant adverse impacts plan, policy, or regulation.

The proposed project includes the construction of 11 single-family residential units. The amount of energy used at the project site would directly correlate to the size of the proposed units, the energy consumption of associated unit appliances, and outdoor lighting. Other major sources of proposed project energy consumption include fuel used by vehicle trips generated during project construction and operation, and fuel used by off-road construction vehicles during construction.

The following discussion provides calculated levels of energy use expected for the proposed project, based on commonly used modelling software (i.e. CalEEMod v.2016.3.2 and the California Air Resource Board's EMFAC2014). It should be noted that many of the assumptions provided by CalEEMod are conservative relative to the proposed project. Therefore, this discussion provides a conservative estimate of proposed project emissions.

Electricity and Natural Gas

Electricity and natural gas used by the proposed project would be used primarily to power onsite buildings. Total annual electricity (kWh) and natural gas (kBTU) usage associated with the operation of the proposed project are shown in Table 4, below (as provided by CalEEMod). According to Calico's *Appendix A: Calculation Details for CalEEMod*, CalEEMod uses the California Commercial End Use Survey (CEUS) database to develop energy intensity value for non-residential buildings. The energy use from residential land uses is calculated based on the Residential Appliance Saturation Survey (RASS). Similar to CEUS, this is a comprehensive energy use assessment that includes the end use for various climate zones in California.

Natural Gas (kBTU/year)	Electricity (kWh/year)
319,716	88,996
319,716	88,996
	319,716

Table 4: Project Operational Natural Gas and Electricity Usage

SOURCE: CALEEMOD (V.2016.3.2.)

Energy usage during the operational phases of the proposed project would be typical for a project of this kind, and therefore would not represent a wasteful, inefficient, or unnecessary consumption of energy resources. Additionally, the proposed project would not conflict with or obstruct any state or local plan for renewable energy or energy efficiency.

On-Road Vehicles (Operation)

The proposed project would generate vehicle trips during its operational phase. In order to calculate new daily vehicle trips and operational on-road vehicle energy usage and emissions, default average daily trips and trip lengths generated by CalEEMod were used, which are based on the project land use, location and urbanization level parameters De Novo (the Initial Study consultant) selected within CalEEMod (i.e. "Single Family Housing" Land Use, "Bay Area Air Quality Management District" project location, and "Urban" setting, respectively). These values are provided by the individual districts or use a default average for the state, depending on the location of the proposed project (CAPCOA, 2017). Based on default factors provided by CalEEMod, the project would generate approximately 103 new daily vehicles trips and the average distance per trip was conservatively calculated to be approximately 7.1 miles. Therefore, the proposed project would generate at total of approximately 736 average daily vehicle miles travelled (Average Daily VMT). Using fleet mix data provide by CalEEMod (v2016.3.2), and Year 2021 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2014, De Novo derived weighted MPG factors for operational on-road vehicles of approximately 26.3 MPG for gasoline and 10.2 MPG for diesel vehicles. With this information, De Novo calculated as a conservative estimate that the unmitigated proposed project would generate vehicle trips that would use a total of approximately 26 gallons of gasoline and 5 gallons of diesel fuel per day, on average, or 9,552 gallons of gasoline and 1,651 annual gallons of diesel fuel per year.

On-Road Vehicles (Construction)

The proposed project would also generate on-road vehicle trips during project construction (from construction workers and vendors). Estimates of vehicle fuel consumed were derived based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2020 gasoline MPG factors provided by EMFAC2014. For the purposes of simplicity, it was assumed that all worker vehicles used

gasoline as a fuel source (as opposed to diesel fuel or alternative sources) and all vendor vehicles used diesel fuel as a fuel source (as opposed to gasoline or alternative sources). Table 6, below, describes gasoline and diesel fuel used by on-road mobile sources during each phase of the construction schedule. As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed project would occur during the building construction phase. See Appendix C for a detailed calculation.

Construction Phase	# of Days	Total Daily Worker Trips ^(a)	Total Daily Vendor Trips ^(a)	Gallons of Gasoline Fuel ^(b)	Gallons of Diesel Fuel ^(b)
Site Preparation	5	18	-	38	-
Grading	8	15	-	50	-
Building Construction	230	4	1	387	248
Paving	18	20	-	151	-
Architectural Coating	18	1	-	8	-
Total	N/A	N/A	N/A	634	248

Table 6: On-Road Mobile Fuel Generated by Project Construction Activities – By Phase

NOTE: ^(A) PROVIDED BY CALEEMOD. ^(B)SEE APPENDIX C FOR FURTHER DETAIL SOURCE: CALEEMOD (V.2016.3.2); EMFAC2014.

Off-Road Vehicles (Construction)

Off-road construction vehicles would use diesel fuel during the construction phase of the proposed project. A non-exhaustive list of off-road constructive vehicles expected to be used during the construction phase of the proposed project includes: cranes, forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO₂ emissions expected to be generated by the proposed project (as provided by the CalEEMod output), and a CO₂ to diesel fuel conversion factor (provided by the U.S. Energy Information Administration), the proposed project would use a total of approximately 1,039 gallons of diesel fuel for off-road construction vehicles (during the site preparation and grading phases of the proposed project). Detailed calculations are provided in Appendix C.

Other

Proposed project landscape maintenance activities would generally require the use fossil fuel (i.e. gasoline) energy. For example, lawn mowers require the use of fuel for power. As an approximation, it is estimated that landscape care maintenance would require approximately four individuals one full day per week, or 1,677 hours per year (or 416.8 hours per year per landscaper). Assuming an average of approximately 0.5 gallons of gasoline used per personhour, the proposed project would require the use of approximately 839 gallons of gasoline per year to power landscape maintenance equipment. The energy used to power landscape maintenance equipment would not differ substantially from the energy required for landscape maintenance for similar projects.

The proposed project could also use other sources of energy not identified here. Examples of other energy sources include alternative and/or renewable energy (such as solar PV) and/or

on-site stationary sources (such as on-site diesel generators) for electricity generation. The proposed project would be solar-ready, which could reduce the need for fossil fuel-based energy (for proposed project buildings), including for electricity.

Conclusion

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

The proposed project would be in compliance with all applicable Federal, State, and local regulations regulating energy usage. For example, PG&E is responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the Statewide Renewable Portfolio Standard (RPS) to increase the proportion of renewable energy (e.g. solar and wind) within its energy portfolio. PG&E is expected to achieve at least a 33% mix of renewable energy resources by 2020, and 50% by 2030. Additionally, energy-saving regulations, including the latest State Title 24 building energy efficiency standards ("part 6"), would be applicable to the proposed project. Other Statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavy-duty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time.

As a result, the proposed project would not result in any significant adverse impacts related to project energy requirements, energy use inefficiencies, and/or the energy intensiveness of materials by amount and fuel type for each stage of the project including construction, operations, maintenance, and/or removal. PG&E, the electricity and natural gas provider to the site, maintains sufficient capacity to serve the proposed project. The proposed project would comply with all existing energy standards, including those established by the City of Brentwood, and would not result in significant adverse impacts on energy resources. Furthermore, existing connections exist between the project site and nearby pedestrian and bicycle pathways, and public transit access exists nearby, reducing the need for local motor vehicle travel. Although improvements to the City's pedestrian, bicycle, and public transit systems would provide further opportunities for alternative transit, the proposed project would be linked closely with existing networks that, in large part, are sufficient for most residents of the proposed project and the City of Brentwood as a whole. For these reasons, the proposed project would not be expected cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the threshold as described by Appendix F of the CEQA Guidelines. This is a *less than significant* impact.

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

VII. GEOLOGY AND SOILS -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a.i), a.ii): Less than Significant with Mitigation. The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone, and known surface expression of active faults does not exist within the site. However, the site is located within a seismically active region. According to the USGS Fault and Fold Database, the nearest active fault is the Greenville Fault, located about 8.8 miles southwest. The potentially active Davis Fault and

Midland Fault are located about 2.8 west and 5.5 miles east of the site, respectively. The Greenville Fault is considered to be capable of a moment magnitude earthquake of 6.8 to 7.0.

Geologic Hazards

Potential seismic hazards resulting from a nearby moderate to major earthquake could generally be classified as primary and secondary. The primary seismic hazard is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking and ground lurching.

Ground Rupture

Because the property does not have known active faults crossing the site, and the site is not located within an Earthquake Fault Special Study Zone, ground rupture is unlikely at the subject property.

Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay region could cause considerable ground shaking at the site, similar to that which has occurred in the past. The project would be built using standard engineering and seismic safety design techniques. Building design at the project site would be completed in conformance with the recommendations of the geotechnical investigation required by Mitigation Measure GEO-2 below, as reviewed and approved by the City of Brentwood Building Division. The structures would be required to meet the standards of applicable Building and Fire Codes, including the 2019 California Building Code (CBC), as adopted or updated by the City of Brentwood. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures would be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage.

Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion could cause ground cracks to form in weaker soils. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Bay Area, but based on the site location, the offset is expected to be very minor.

Conclusion

The project site is not within an Alquist-Priolo Special Studies Zone; however, the Brentwood area is located in a seismically active zone. Five active faults are located within an approximate 50-mile radius of the project site. The nearest State of California zoned, active fault is the

Greenville fault, located approximately 8.8 miles southwest of the project site. Development of the proposed project in this seismically active zone could expose people or structures to substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault and/or strong seismic ground shaking. Therefore, a potentially significant impact could result. The City of Brentwood General Plan Action SA 1a requires the submission of geologic and soils reports for all new developments. The geologic risk areas that are determined from these studies shall have standards established and recommendations shall be incorporated into development. Implementation of the following mitigation measures would ensure the potential impacts are **less than significant**.

Mitigation Measure(s)

Mitigation Measure GEO-1: All project buildings shall be designed in conformance with the current edition of the California Building Code (CBC).

Mitigation Measure GEO-2: Prior to grading permit issuance, the applicant shall submit a final geotechnical evaluation of the project site that analyzes soil stability including soil expansion, and the potential for lateral spreading, subsidence, liquefaction or collapse. The report shall identify any on site soil and seismic hazards and provide design recommendations for onsite soil and seismic conditions. The geotechnical evaluation shall be reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.

Mitigation Measure GEO-3: All grading and foundation plans for the development shall be designed by a Civil and Structural Engineer and reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer prior to issuance of grading and building permits to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.

Responses a.iii), c): Less than Significant. Soil liquefaction results from loss of strength during cyclic loading, such as that which is imposed by earthquakes. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded, and fine-grained sands.

According to the City of Brentwood General Plan Draft EIR Figure 3.6-2, the risk of liquefaction is considered moderate throughout the entirety of the project site. As discussed previously, the City of Brentwood General Plan Action SA 1a requires the submission of geologic and soils reports for all new developments. The geologic risk areas that are determined from these studies shall have standards established and recommendations shall be incorporated into development.

Considering the moderate risk of liquefaction at the proposed project site, potentially significant impacts relating to soil stability are present. As stated previously, Mitigation Measure GEO-2 requires the preparation of a geotechnical evaluation of the project site.

Implementation of Mitigation Measure GEO-2 would reduce impacts to **less than significant** levels related to soil stability, and the potential result in, lateral spreading, subsidence, liquefaction or collapse.

Mitigation Measure(s) Implement Mitigation Measure GEO-2

Responses a, iv): Less than Significant. The proposed project site is not susceptible to landslides because the area is essentially flat. This is a **less than significant** impact.

Response b): Less than Significant with Mitigation. The project site currently consists of undeveloped land. According to the project site plans prepared for the proposed project, development of the proposed project would result in the creation of new impervious surface areas throughout the project site. The development of the project site would also cause ground disturbance of top soil. The ground disturbance would be limited to the areas proposed for grading and excavation, including the residential building pads and drainage, sewer, and water infrastructure improvements. After grading and excavation, and prior to overlaying the disturbed ground surfaces with impervious surfaces and structures, the potential exists for wind and water erosion to occur, which could adversely affect downstream storm drainage facilities.

Without implementation of appropriate Best Management Practices (BMPs) related to prevention of soil erosion during construction, development of the project would result in a potentially significant impact with respect to soil erosion.

Implementation of the following mitigation measures would ensure the impact is **less than significant**.

Mitigation Measure(s)

Mitigation Measure GEO-4: Prior to grading permit issuance, the applicant shall submit a final grading plan to the Director of Public Works/City Engineer for review and approval. If the grading plan differs significantly from the proposed grading illustrated on the approved project plans, plans that are consistent with the new revised grading plan shall be provided for review and approval by the Director of Public Works/City Engineer.

Mitigation Measure GEO-5: Any applicant for a grading permit shall submit an erosion control plan to the Director of Public Works/City Engineer for review and approval. The plan shall identify protective measures to be taken during construction, supplemental measures to be taken during the rainy season, the sequenced timing of grading and construction, and subsequent revegetation and landscaping work to ensure water quality in creeks and tributaries in the General Plan Area is not degraded from its present level. All protective measures shall be shown on the grading plans and specify the entity responsible for completing and/or monitoring the measure and include the circumstances and/or timing for implementation.

Mitigation Measure GEO-6: Grading, soil disturbance, or compaction shall not occur during periods of rain or on ground that contains freestanding water. Soil that has been soaked and

wetted by rain or any other cause shall not be compacted until completely drained and until the moisture content is within the limit approved by a Soils Engineer. Approval by a Soils Engineer shall be obtained prior to the continuance of grading operations. Confirmation of this approval shall be provided to the Public Works Department prior to commencement of grading.

Response d): Less than Significant with Mitigation. Expansive soils shrink/swell when subjected to moisture fluctuations, which could cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to moisture changes in expansive soils could be reduced by appropriate grading practices and using posttensioned slab foundations or similarly stiffened foundation systems which are designed to resist the deflections associated with soil expansion. According to the City of Brentwood General Plan Draft EIR Figure 3.6-4, the project site has a high (6%-9%) Linear Extensibility (which directly relates to the soils shrink-swell potential). Therefore, because of the potential presence of expansive soils on the site, a **potentially significant** impact could occur. However, as mentioned previously, Mitigation Measure GEO-2 requires a final geotechnical evaluation of the project site that analyzes soil stability, including soil expansion. Implementation of Mitigation Measure GEO-2 ensures project soils are analyzed and design recommendations are provided by a qualified geotechnical engineer to ensure the safety and welfare of future project residents. Therefore, with implementation of Mitigation Measure GEO-2, this impact is considered **less than significant**.

Mitigation Measure(s) Implementation of Mitigation Measure GEO-2.

Response e): No Impact. The project has been designed to connect to the existing City sewer system and septic systems will not be used. Therefore, **no impact** would occur related to soils incapable of adequately supporting the use of septic tanks.

Responses f): Less than Significant with Mitigation. The project is not expected to contain subsurface paleontological resources; however, it is possible that undiscovered paleontological resources could be encountered during ground-disturbing activities.

Damage to or destruction of a paleontological resource would be considered a potentially significant impact under local, state, or federal criteria. Implementation of the following mitigation measure would ensure steps would be taken to reduce impacts to paleontological resources in the event that they are discovered during construction. This mitigation measure would reduce this impact to a *less than significant* level.

Mitigation Measure GEO-7: If any paleontological resources are found during grading and construction activities, all work shall be halted immediately within a 200-foot radius of the discovery until a qualified paleontologist has evaluated the find.

Work shall not continue at the discovery site until the paleontologist evaluates the find and makes a determination regarding the significance of the resource and identifies recommendations for conservation of the resource, including preserving in place or relocating within the project site, if feasible, or collecting the resource to the extent feasible and documenting the find with the University of California Museum of Paleontology.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			Х	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?			Х	

VIII. GREENHOUSE GAS EMISSIONS - WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Less than Significant. Implementation of the proposed project would cumulatively contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to future 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). Sources of GHG emissions include area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO_2 equivalents (MTCO₂e/yr).

The City of Brentwood has determined that the BAAQMD thresholds of significance are the best available option for evaluation of GHG impacts for this project and, thus, are used in this analysis.

The BAAQMD identifies screening criteria for development projects, which provide a conservative indication of whether a development could result in a potentially significant impact associated with GHG emissions. If the screening criterion for GHG is met by a project, an assessment of that project's GHG emissions would be required. The operational GHG screening criterion for a single-family residential development is if the development is less than or equal to 56 dwelling units. Because the proposed project consists of a total of 11 single-family residential dwelling units, a GHG assessment is not required for the proposed project.

The proposed project site was designated for Residential Very Low Density uses in the Brentwood General Plan in effect at the time ABAG projections were forecast. The proposed project is consistent with the General Plan land use designation. Therefore, the project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and impacts associated with the generation of GHG emissions would be **less than significant**.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?		Х		
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		Х		
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			Х	
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?				Х
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?				X
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			Х	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?				Х

IX. HAZARDS AND HAZARDOUS MATERIALS -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Less than Significant with Mitigation. The following discussion addresses potential hazards associated with existing site conditions of the project site, as well as the potential use of hazardous materials during operation of the project.

Proposed Project Uses

The proposed project has limited potential for the routine transport, use, or disposal of hazardous materials. The proposed residential uses would not involve the routine transport, use, or disposal of hazardous materials, or present a reasonably foreseeable release of hazardous materials. Hazardous materials associated with the residential uses would consist mostly of typical household-type cleaning products and fertilizers, which would be utilized in small quantities and in accordance with label instructions. This is a less than significant impact, and no mitigation is required.

Existing Site Conditions

There are two separate parcels that make up the project site. Both parcels APN: 018-080-025 and 018-080-022 were analyzed for potential soil contamination and other existing hazards, prior to the preparation of this IS/MND. In general, APN 018-080-025 makes up the western half of the project site, and APN 018-080-022 makes up the eastern half (and southern portion) of the project site.

A Phase 1 Environmental Site Assessment Report was prepared for parcel 018-080-025, and as described in greater detail below, there were no significant hazardous substances found on this site.

A Voluntary Cleanup Agreement and Removal Action Workplan was prepared for parcel 018-080-022 where potential lead contamination of the soil was found, as described in greater detail below.

APN 018-080-025 Site Conditions

A Phase I Environmental Site Assessment (Phase I Report), dated August, 2019, was prepared for the project site at APN: 018-08-025 by TRC Solutions Inc. (TRC). TRC conducted a review of federal, state and local regulatory agency databases provided by Environmental Data Resources (EDR) to evaluate the likelihood of contamination incidents at and near the site. The database sources and the search distances are in complete accordance with the requirements of ASTM E 1527-13. The purpose of the records review was to obtain reasonably available information to help identify Recognized Environmental Conditions (RECs). Additionally, TRC conducted a reconnaissance of the project site on April 30, 2019. The site reconnaissance was conducted by walking and driving representative areas of the site. Results of the site reconnaissance and records searches are as follows:

Site Reconnaissance: The site was observed to be vacant and entirely unpaved. No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts that are currently present at the Site; and no unidentified substance containers (when open or damaged, and containing unidentified substances suspected of being hazardous or petroleum products) were observed at the Site. TRC observed no visual evidence, including vent pipes, fill ports or dispensing equipment, of underground storage tanks (USTs) at the Site.

A pump house was observed on the adjoining property to the southeast of the Site. This well is identified as USGS California Water Science Center monitoring location 001N002E02K001M in the EDR Well Report. The EDR report also indicated that 9 additional water wells and 16 oil and gas wells are present on surrounding properties. None of these wells were observed during Site reconnaissance. According to the California Department of Conservation – Division of Oil, Gas, and Geothermal Resources, these oil and gas wells have been plugged, inspected, and approved according to the requirements of the Division.

A small pile of degraded asphalt debris is present between the northern border of the Site and Lone Tree Way. The lot to the west of the Site is currently vacant, but has evidence of a former building. A residence and a vacant lot are present to the south of the Site. A pump house was observed on this vacant lot. This well is identified as USGS California Water Science Center monitoring location 001N002E02K001M in the EDR Well Report. The lot to the east of the Site is undeveloped. To the north, south, and east of the Site, surrounding properties are generally residential. Land to the west is generally mixed residential and commercial, and also includes a plant nursery approximately 400 feet west of the Site. Railroad tracks are present approximately 800 feet west of the site.

Structures: No existing structures were identified at the site.

Hazardous Substances and Soil Sampling: No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts that are currently present at the site; and no unidentified substance containers (when open or damaged, and containing unidentified substances suspected of being hazardous or petroleum products) were observed at the Site.

TRC observed no visual evidence, including vent pipes, fill ports or dispensing equipment, of underground storage tanks (USTs) or aboveground storage tanks (ASTs) at the Site.

To help evaluate the general soil quality, soil samples were collected on May 29, 2019 to June 26, 2019, from 2 feet below ground surface were collected using a hand auger.

A total of 13 surface soil samples and 3 near-surface soil samples were submitted for chemical testing. Laboratory testing included arsenic and lead (EPA Test Method 6020), and organochlorine Pesticides (OCPs) (EPA Test Method 8081).

Results of analyses detected no organchlorine pesticides exceeding respective residential ESLs in any of the three surface soil samples. Detected arsenic concentrations in three surface samples ranged from 7.1 to 9.1 mg/kg, which is consistent with regional background arsenic concentrations. Analyses detected total lead concentrations ranging from 8.7 to 150 mg/kg in sixteen surface and near-surface soil samples with only three surface soil samples exceeding the residential ESL of 80 mg/kg for lead. Using the EPA's ProUCL software, the calculated 95 percent Upper Confidence Level (UCL) for lead in surface soil at the Site 78.76 mg/kg, which is less than the residential ESL of 80 mg/kg. Detailed results of the testing are included in Phase I Environmental Assessment presented in Appendix E.

TRC concluded that the assessment has revealed no evidence of Recognized Environmental Conditions, Controlled Recognized Environmental Conditions or Historical Recognized Environmental Conditions in connection with the Site with the exception of the following:

REC No. 1

File review and discussion with the DTSC indicates that lead concentrations ranging from 37 to 410 mg/kg are present in soil at the adjacent property to the east (aka Skipolini property). To evaluate potential lead impacts, soil samples were collected across the Site. Results of analyses

detected no organchlorine pesticides exceeding respective residential Environmental Screening Levels (ESLs) established by the Regional Water Quality Control Board (RWQCB) in any of the three surface soil samples tested. Detected arsenic concentrations ranged from 7.1 to 9.1 mg/kg in the three samples tested, which is consistent with background values for the Bay Area. Analyses detected total lead concentrations ranging from 8.7 to 150 mg/kg in sixteen (16) surface and near-surface soil samples with only three (3) surface soil samples exceeding the residential ESL of 80 mg/kg for lead. Using the EPA's ProUCL software, the calculated 95 percent Upper Confidence Level (UCL) for lead in the thirteen (13) surface soil at the Site 78.76 mg/kg, which is less than the residential ESL of 80 mg/kg. Accordingly, TRC recommends no additional soil investigation at this time.

APN 018-080-022 Site Conditions

In 2014, ENGEO conducted a Phase I Environmental Site Assessment and subsequent Agrichemical Impact Assessment for the approximately 2.96-acre portion of the project site, identified as APN_018-0080-022. No significant pesticide or arsenic impacts were identified; however, elevated lead concentrations exceeding residential screening levels were identified in one area of the parcel. Lead is the only identified chemical of potential concern (COPC). Based on the findings of the soil sampling and laboratory testing, the soil impacts appear to be limited to an approximately 21,000 sf area in the west-central portion of the parcel. The depth of the impacted soil is likely limited to the upper 12 inches of soil measured from the ground surface, equating to an approximate volume of 800 to 1,000 cubic yards.

The owner of the site (project proponent) located at APN: 018-0080-022 entered into a Voluntary Cleanup Agreement (VCA) with DTSC, which led to the preparation of a Removal Action Workplan (ENGEO, 2019). The purpose of this Agreement is for the project proponent to investigate and/or remediate a release or threatened release of any hazardous substance at or from the site under the oversight of DTSC. Based on the information available to DTSC and project proponent, the site is or may be contaminated with hazardous substances, including Lead. The proponent agreed to soil remediation subject to the review and approval of the DTSC. As noted above, a Removal Action Work plan (RAW) was prepared for the site. The purpose of the RAW is to describe the proposed procedures and protocols for remediation of lead-impacted soil at the site and present the remedial measures to mitigate lead-impacted soil to allow for possible future development.

According to the RAW, soil will be sampled, excavated, and analyzed prior to transporting the excavated soil offsite for disposal in Vasco Road Landfill or Altamont Landfill. Excavation work will be conducted by a licensed grading contractor with current hazardous material certifications. Prior to implementation of the RAW, a grading permit will be obtained from the City of Brentwood. A hauling plan/permit will also be submitted to the City of Brentwood for approval.

Conclusion

Development of the proposed project would include the construction of 11 residential units and associated infrastructure. Projects that involve the routine transport, use, or disposal of hazardous materials are typically industrial in nature. The proposed project would not involve the routine transport, use, or disposal of hazardous materials. No mitigation for this environmental topic is required.

The Phase I prepared for parcel 018-080-025 revealed Recognized Environmental Conditions at the project site associated with contaminated soils. Soil sampling was conducted, and no potential impacts associated with soil contamination were identified. No additional soil investigation requirements were identified in the Phase I ESA. No additional mitigation is required for this portion of the overall project site.

For parcel APN 018-080-022, the project proponent has entered into a VCA and RAW in order analyze, excavate and dispose of contaminated soil onsite. This is a potentially significant impact. However, the implementation of Alternative 3 Soil Excavation/Off-Site Disposal identified in section 4.3.3 of the Removal Action Workplan will mitigate this impact to a Less than Significant level.

Excavation/off site disposal is a well-proven, readily implementable solution that is a common method for cleaning up contaminated sites. The affected area will be divided into approximately 35 grids, 25 by 25 feet. The grids with affected soils will initially be excavated to a depth of 12 inches. The excavated soil will be stockpiled in approximate 100-cubic-yard volume on site, outside of the planned excavation area, prior to being profiled for landfill disposal. As necessary, soil stockpiles will be covered with 10-mil plastic sheeting and secured to prevent dust or runoff during storm events. Stockpiles will be managed in accordance with the Dust Control Plan. Following excavation, each of the excavated grids will be sampled by the collection of one discrete soil sample from the center-base of the grid. The grid samples will be analyzed for total lead using the Disposal/Refuse Criteria identified in table 5.2-1 of the removal Action Work Plan. Soil grids with confirmation sampling concentrations exceeding the soil cleanup levels will be re-excavated an additional 6 inches and re-sampled. Excavation will proceed until soil cleanup levels are achieved. Grids with confirmation samples below the soil cleanup levels will be considered complete with no further excavation conducted. Although implementation of Alternative 3 will result in greater transport truck traffic to and from the site as soil loads will be transported from the site to landfills, it would reduce or eliminate potential exposure to soil contamination, and therefore mitigate potentially significant environmental impacts. Once implemented, Alternative 3 would not require any further management or site controls.

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

Mitigation Measure(s)

Mitigation Measure HAZ-1: The project proponent shall implement soil excavation and disposal in accordance with section 4.3.3 Alternative 3 Soil Excavation/Off-site Disposal and section 5.0 Removal Action Implementation, as detailed in the Removal Work Action Plan included in Appendix H of this IS/MND. Prior to implementation of ground disturbing activities, a grading permit shall be obtained with the City of Brentwood for approval. Excavation work shall be conducted by a licensed grading contractor with current hazardous material certifications. Work activities will be conducted Monday – Friday between 7:00 AM and 6:00 PM.

Mitigation Measure HAZ-2: Prior to the transportation and disposal of contaminated soils, a hauling plan/permit shall be submitted to the City of Brentwood for approval. Transportation and disposal of soils shall be conducted in accordance with the Transportation Plan identified in Appendix B of the Removal Action Work Plan.

Mitigation Measure HAZ-3: Upon completion of soil excavation, disposal, and confirmation sampling, the project proponent shall prepare a Removal Action Completion Report documenting Site activities. The report shall provide all compiled laboratory data and disposal manifests for the project. The report shall be signed by a California Professional Engineer and/or Professional Geologist. The report shall be submitted to DTSC for review and approval. The City of Brentwood shall not permit any additional site grading or earthwork on the subject parcel until the City has received confirmation from DTSC that the remediation efforts have been satisfactorily completed, as required by the conditions established in both the RAW and VCA.

Response c): Less than Significant. Freedom high school is located approximately 0.6 miles to the northeast; Marsh Creek Elementary School is located approximately 1.01 miles to the southwest; and Golden Hills Christian School is located approximately 1.03 miles to the west; however, the proposed project has limited potential for the routine transport, use, or disposal of hazardous materials as discussed above in Responses a) and b). The proposed residential uses would not involve the routine transport, use, or disposal of hazardous materials, or present a reasonably foreseeable release of hazardous materials. Therefore, the project would have a **less than significant** impact with respect to emitting hazardous emissions or handling hazardous or acutely hazardous materials, substances, or waste within ¹/₄ mile of an existing or proposed school.

Response d): No impact. In preparing the Phase 1 Environmental Site Assessment (2019), TRC performed a search of Federal, State, and local hazardous materials/sites databases regarding the project site and nearby properties.

The environmental database report identified 25 listings, including 15 that could be mapped and 10 that could not (i.e., orphan properties) within the ASTM-required radii of the Site. Eight of these orphan properties are listed as stormwater construction sites. Two orphan properties are former spill sites associated with the Brentwood Oil and Gas Field. Both of these properties are located near the intersection of Deer Valley Road and Lone Tree Way, more than two miles away from the target property. One water well for the property is located southeast of the project site. The project site has not been identified in any of the hazardous databases, nor is the site on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. As a result, the proposed project would have **no impact** under this criterion.

Responses e): No impact. The project site is not within an airport land use plan or within two miles of an airport. The nearest airport, Funny Farm Airfield, is a private airfield located approximately 4.1 miles southeast of the project site. Therefore, implementation of the proposed project would result in **no impact** to this environmental topic.

Response f): Less than significant. The Brentwood General Plan currently designates the proposed project site for residential very low density uses, such as those proposed for the project. Implementation of the proposed project would not result in any substantial modifications to the existing roadway system and would not interfere with potential evacuation or response routes used by emergency response teams. Therefore, the impact would be **less than significant**.

Response g): No impact. The site is not located within an area where wildland fires occur. The site is predominately surrounded by existing development which have a low potential for wildland fires. Therefore, **no impact** would occur.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?		Х		
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			Х	
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;		Х		
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;		Х		
(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		Х		
(iv) impede or redirect flood flows?			Х	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			Х	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			Х	

X. HYDROLOGY AND WATER QUALITY - Would the project:

RESPONSES TO CHECKLIST QUESTIONS

Responses a): Less than Significant with Mitigation.

During the early stages of construction activities, topsoil would be exposed due to grading and partial leveling of the site. After grading and leveling and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff.

The State Water Resources Control Board (SWRCB) regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a land disturbance of one or more acres. Performance Standard NDCC-13 of the City's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's

General Construction Permit requires a Storm Water Pollution Prevention Plan (SWPPP) to be prepared for the site. A SWPPP describes BMPs to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts and non-point source pollution impacts of the development project, including post-construction impacts. The City of Brentwood requires all development projects to use BMPs to treat runoff.

In summary, disturbance of the on-site soils during construction activities could result in a potentially significant impact to water quality should adequate BMPs not be incorporated during construction in accordance with SWRCB regulations.

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

Mitigation Measure(s)

Mitigation Measure HYD-1: Prior to issuance of grading permits, the contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP). The Developer shall file the Notice of Intent (NOI) and associated fee to the SWRCB. The SWPPP shall serve as the framework for identification, assignment, and implementation of BMPs. The contractor shall implement BMPs to reduce pollutants in stormwater discharges consistent with the requirements established in 15.52.60(F): Erosion and Sediment Control of the City's Municipal Code. The SWPPP shall be submitted to the Director of Public Works/City Engineer for review and approval and shall remain on the project site during all phases of construction. Following implementation of the SWPPP, the contractor shall subsequently demonstrate the SWPPP's effectiveness and provide for necessary and appropriate revisions, modifications, and improvements to reduce pollutants in stormwater discharges to the maximum extent practicable.

Mitigation Measure HYD-2: Prior to the completion of construction, the applicant shall prepare and submit, for the City's review, an acceptable Stormwater Control Operation and Maintenance Plan. In addition, prior to the sale, transfer, or permanent occupancy of the site the applicant shall be responsible for paying for the long-term maintenance of treatment facilities, and executing a Stormwater Management Facilities Operation and Maintenance Agreement and Right of Entry in the form provided by the City of Brentwood. The applicant shall accept the responsibility for maintenance of stormwater management facilities until such responsibility is transferred to another entity.

The applicant shall submit, with the application of building permits, a draft Stormwater Facilities and Maintenance Plan, including detailed maintenance requirements and a maintenance schedule for the review and approval by the Director of Public Works/City Engineer. Typical routine maintenance consists of the following:

- Limit the use of fertilizers and/or pesticides. Mosquito larvicides shall be applied only when absolutely necessary.
- Replace and amend plants and soils as necessary to insure the planters are effective and attractive. Plants must remain healthy and trimmed if overgrown. Soils must be maintained to efficiently filter the storm water.

- Visually inspect for ponding water to ensure that filtration is occurring.
- After all major storm events, remove bubble-up risers for obstructions and remove if necessary.
- Continue general landscape maintenance, including pruning and cleanup throughout the year.
- Irrigate throughout the dry season. Irrigation shall be provided with sufficient quantity and frequency to allow plants to thrive.
- Excavate, clean and or replace filter media (sand, gravel, topsoil) to insure adequate infiltration rate (annually or as needed).

Mitigation Measure HYD-3: Design of both the on-site drainage facilities shall meet with the approval of both the Director of Public Works/City Engineer and the Contra Costa County Flood Control and Water Conservation District prior to the issuance of grading permits.

Mitigation Measure HYD-4: Contra Costa County Flood Control and Water Conservation District drainage fees for the Drainage Area shall be paid prior to issuance of grading permits to the satisfaction of the Director of Public Works/City Engineer.

Mitigation Measure HYD-5: The Applicant/Developer shall ensure that the project site shall drain into a street, public drain, or approved private drain, in such a manner that un-drained depressions shall not occur. Satisfaction of this measure shall be subject to the approval of the Director of Public Works/City Engineer.

Mitigation Measure HYD-6: The construction plans shall indicate roof drains emptying into a pipe leading to the project bioswale areas for the review and approval of the Director of Public Works/City Engineer prior to the issuance of building permits.

Mitigation Measure HYD-7: The improvement plans shall indicate concentrated drainage flows not crossing sidewalks or driveways for the review and approval of the Director of Public Works/City Engineer prior to the issuance of grading permits.

Response b): Less than Significant. The City provides domestic, potable water to its residents using both surface water and groundwater resources. The City has seven active groundwater wells, which provided approximately 30 percent of the potable water supplied during 2010. Brentwood is located within the Tracy Subbasin of the San Joaquin Valley Groundwater Basin. While the project would create new impervious surface areas on portions of the 4.08 acre project site, the Tracy Subbasin comprises 345,000 acres (539 square miles); therefore, recharge of the groundwater basin within which the project site is located comes from many sources over a broad geographic area. The new impervious surfaces associated with the project would not cause a substantial depletion of recharge within the Tracy Subbasin. Additionally, the proposed landscape areas would provide an area for on-site groundwater recharge. Further, except for seasonal variations resulting from recharge and pumping, water levels in most of the wells of the Tracy Sub-basin have remained stable over at least the last 10 years (as of 2015)⁴.

⁴ Erler & Kalinowski, Inc. City of Tracy 2015 Urban Water Management Plan. July 2016.

It should be noted that the City of Brentwood has adequate water supply to meet the demands of the proposed project, as well as future anticipated development allowed under the Brentwood General Plan, as described in greater detail in Section XIX, Utilities and Service Systems. The project itself does not include installation of any wells, but would include eventual connections to existing City of Brentwood water infrastructure. Non-potable water infrastructure is not currently available at the project site. The City is currently in the process of developing and expanding infrastructure for non-potable water. This infrastructure is not yet complete, therefore, the applicant will be required to construct onsite nonpotable water infrastructure that stubs out on Lone Tree Way. The project will require connection to the City's potable water distribution system.

The proposed project is consistent with the General Plan land use designation for the site. The potential water demand of future site development was accounted for and considered in the General Plan EIR and the most recent Urban Water Management Plan. As demonstrated in these documents, the City has adequate supply availability to meet future buildout water demands. Therefore, the project would result in a **less than significant** impact with respect to substantially depleting groundwater supplies or interfering substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level

Responses c.i), c.ii), c.iii, e): Less than Significant with Mitigation

When land is in a natural or undeveloped condition, soils, mulch, vegetation, and plant roots absorb rainwater. This absorption process is called infiltration or percolation. Much of the rainwater that falls on natural or undeveloped land slowly infiltrates the soil and is stored either temporarily or permanently in underground layers of soil. When the soil becomes completely soaked or saturated with water or the rate of rainfall exceeds the infiltration capacity of the soil, the rainwater begins to flow on the surface of land to low lying areas, ditches, channels, streams, and rivers. Rainwater that flows off a site is defined as storm water runoff. When a site is in a natural condition or is undeveloped, a larger percentage of rainwater infiltrates into the soil and a smaller percentage flows off the site as storm water runoff.

The infiltration and runoff process is altered when a site is developed. Buildings, sidewalks, roads, and parking lots introduce asphalt, concrete, and roofing materials to the landscape. These materials are relatively impervious, which means that they absorb less rainwater. As impervious surfaces are added to the ground conditions, the natural infiltration process is reduced. As a result, the volume and rate of storm water runoff increases. The increased volumes and rates of storm water runoff can result in flooding if adequate storm drainage facilities are not provided.

The project would create approximately 55,665 square feet of new impervious surface on a site that previously contained zero square feet of impervious surface area. The project would be served by existing storm drainage infrastructure. Wastewater, water, and storm drainage lines would be connected via existing lines along the Gann Street right-of-way. The project will include an onsite stormwater treatment area and two drainage management areas to manage

water runoff. Stormwater treatment and drainage management would include a bioretention area and grading infrastructure strategies (a valley gutter, a concrete level spreader, and a dirt berm) that will ensure adequate drainage. Therefore, project development would not result in a substantial increase in the rate of amount of surface runoff in a manner which would result in flooding nor would it create or contribute to runoff water which would exceed the capacity of existing or planned stormwater drainage system.

For the proposed project, three bio-retention areas throughout the project site are proposed that would channel site stormwater to a catch basin near the center of the site. Flows will percolate through the basin before being released into the stormdrain system.

A long-term maintenance plan is needed to ensure that all proposed stormwater treatment BMPs and facilities function properly. Should the proposed water quality treatment facilities not be maintained properly, a potentially significant impact could occur with respect to creating or contributing runoff water that would exceed the capacity of existing or planned stormwater drainage systems or providing substantial additional sources of polluted runoff.

If left uncontrolled, the operation of the proposed project could result in the potential for pollutants to wash down and potentially drain into Marsh Creek. However, all municipalities within Contra Costa County (and the County itself) are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit. Known as the "C.3 Standards," new development and redevelopment projects that create or replace 10,000 or more square feet of impervious surface area must contain and treat stormwater runoff from the site. The proposed project is a C.3 regulated project and is required to include appropriate site design measures, source controls, and hydraulically-sized stormwater runoff before allowing it to proceed into the drainage management area.

The proposed project would not substantially alter the existing drainage pattern of the site or the area. Therefore, with implementation of the following mitigation measure, the proposed project would result in **less than significant** impacts related to the alteration of the existing drainage pattern of the site or area, or 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.

Mitigation Measure(s) Implement Mitigation Measure HYD-2

Responses c.iv): Less than Significant. According to the June 16, 2009 FEMA Flood Insurance Rate Maps (FIRM), the project site is not located within a designated flood zone. Therefore, a **less than significant** impact would result from implementation of the proposed project with respect to placing structures within a 100- year floodplain, which would impede or redirect flood flows.

Response d): Less than Significant. Tsunamis are defined as sea waves created by undersea fault displacement. A tsunami poses little danger away from shorelines; however, when a tsunami reaches the shoreline, a high swell of water breaks and washes inland with great force. Historic records of the Bay Area used by one study indicate that nineteen tsunamis were recorded in San Francisco Bay during the period of 1868-1968. Maximum wave height recorded at the Golden Gate tide gauge (where wave heights peak) was 7.4 feet. The available data indicate a standard decrease of original wave height from the Golden Gate to about half original wave height on the shoreline near Richmond, and to nil at the head of the Carquinez Strait. As Brentwood is several miles inland from the Carquinez Strait, the project site is not exposed to flooding risks from tsunamis and adverse impacts are not expected to result. This is a less than significant impact.

A seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir, whose destructive capacity is not as great as that of tsunamis. Seiches are known to have occurred during earthquakes, but none have been recorded in the Bay Area. In addition, the project is not located near a closed body of water. Therefore, risks from seiches and adverse impacts are not expected to result. This is a **less than significant** impact.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Physically divide an established community?				Х
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?			Х	

XI. LAND USE AND PLANNING - Would the project:

RESPONSES TO CHECKLIST QUESTIONS

Responses a): No Impact. As noted in the General Plan, the City of Brentwood has planned for orderly, logical development that supports compatibility among adjacent uses. The General Plan goals seek to retain the character of existing communities and ensure that future land uses are compatible with existing uses. Currently, there are no existing structures on the site, and the site is surrounded by residential neighborhoods, with the exception of the nursery to the west. The proposed project, which includes residential development, would not physically divide an established community due to the nature of the site, and its location within city limits. Therefore, the project would have **no impact** related to physically dividing an established community.

Responses b): Less than Significant. The Brentwood General Plan identifies the project site for Residential Very Low Density land uses. The Residential Very Low Density land use requires densities between 1.1 and 3 du/ac. The proposed project consists of the development of 11 single-family residential units on 4.08 acres, which results in approximately 2.7 du/ac, which is within the General Plan density requirements, provided the applicant receives approval from the City Council of its request to develop above the mid-range. Therefore, the proposed project is consistent with the existing General Plan land use designation. The project would require a Zoning Amendment to change the Zoning designation from Residential Single Family (R-1-12) to Planned Development (PD). However, the R-1-12 Zoning designation was not adopted for the purpose of avoiding or mitigating an environmental effect, and amendments to the Zoning Code reflect the City's vision identified for the project site under the current General Plan Land Use Map. As a result, the project would have a **less than significant** impact related to conflicting with applicable land use plans, policies, regulations, or surrounding uses.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?			Х	
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?			Х	

XII. MINERAL RESOURCES -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Less than Significant. The 2014 Brentwood General Plan Update EIR does not identify significant mineral resources within the area. In addition, Figure 3.6-6 in the 2014 Brentwood General Plan Update EIR does not show an existing active oil and gas well on the project site. Therefore, the impact regarding the loss of availability of a known mineral resource that would be of value to the region, as well as 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, would be **less than significant**.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?		Х		
b) Generation of excessive groundborne vibration or groundborne noise levels?			Х	
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?				Х

XIII. NOISE -- WOULD THE PROJECT RESULT IN:

BACKGROUND

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz). Noise is a subjective reaction to different types of sounds.

Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment. All noise levels reported in this section are in terms of A-weighted levels, but are expressed as dB, unless otherwise noted. The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound. Community noise is commonly described in terms of the ambient noise level, which is defined as the allencompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (Leq), which corresponds to a steady-state A-weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The Leq is the foundation of the composite noise descriptor, Ldn, and shows very good correlation with community response to noise. The day/night average level (Ldn) is based upon the average noise level over a 24-hour day, with a +10- decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because Ldn represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Effects of Noise on People

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise. Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility

spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

Existing Ambient Noise Level

The existing noise environment in the project area is primarily defined traffic on Lone Tree Way directly north of the project site.

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at two locations on the project site. Noise measurement locations are shown on Figure 5 of this Initial Study. A summary of the noise level measurement survey results is provided in Table 2 below. Appendix F contains the complete results of the noise monitoring. The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted Lmax, represents the highest noise level measured. The average value, denoted Leq, represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L50, represents the sound level exceeded 50 percent of the time during the monitoring period. Larson Davis Laboratories (LDL) model 812 and 820 precision integrating sound level meters were used for the ambient noise level measurement survey.

The meters were calibrated before and after use with a B&K Model 4230 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

		CNEL/		Average M	easured Ho	urly Noise I	Levels, dBA	
Site	Date	Ldn	Dayt	ime (7am-1	0pm)	Nighti	time (10pm	-7am)
		Ldn	Leq	L50	Lmax	Leq	L50	Lmax
Continuous (24-hour) Noise Level Measurements								
LT-1	12/09/19-12/10/19	70	67	65	84	62	52	78
LT-2	12/09/19-12/10/19	58	55	54	70	50	45	62

 Table 2: Summary of Existing Background Noise Measurement Data

Source: Saxelby Acoustics – 2019

Evaluation of Transportation Noise on Project site

Saxelby Acoustics used the SoundPLAN noise model to calculate traffic noise levels at the proposed single-family uses due to traffic on Lone Tree Way. Traffic noise levels were predicted for existing conditions with a +1 dBA adjustment for future conditions. The results of this analysis are shown graphically on Figure 6.

<u>Railroad Noise</u> Union Pacific Railroad Line (UPRR) – Currently Inactive

The Union Pacific Railroad (UPRR) line is bisects the City of Brentwood from the northwest corner of the City to the southeast corner of the City. This portion of the railroad line has not been in use since sometime prior to the year 2000. The line is maintained by UPRR as a standby route with no planned use for freight movement. However, there is the potential that future use of the line could be used for commuter passenger service or future freight service.

Rail operations associated with light rail passenger service is generally quiet in comparison to freight train operations. Although light rail operations may include 50 or more operations per day, the 60 dB CNEL contour will generally not extend more than 100 feet from the railroad track centerline.

To conservatively estimate potential noise impacts associated with railroad line activities, it was assumed that up to 10 freight train operations may occur during a 24-hour period. Assuming that each train generated a sound exposure level (SEL) of 100 dB at a distance of 100 feet from the railroad centerline, the Ldn noise level can be calculated using the following equation.

$$Ldn = SEL + 10 \log N_{eq} - 49.4 dB$$
, where:

SEL is the typical single event sound exposure level of an individual train event (100 dB at a distance of 100 feet), N_{eq} is the sum of the daytime (7 a.m. to 10 p.m.) train events, plus 10 times the number of nighttime (10 p.m. to 7 a.m.) train events (a total of 44), and 49.4 is ten times the logarithm of the number of seconds per day. Assuming an even distribution of trains between daytime, evening and nighttime hours, the Ldn would be 67 dB at 100 feet.

Saxelby Acoustics used the SoundPLAN noise model to calculate potential railroad noise levels across the project site. The results of this analysis are shown graphically on Figure 6.

Significance Criteria

The following criteria were used to evaluate the significance of environmental noise resulting from the project:

A significant noise impact would be identified if the project would expose persons to or generate noise levels that would exceed applicable noise standards presented in the City of Brentwood General Plan. Specifically, based upon Table N-1 of the City of Brentwood General Plan, residential uses are considered normally acceptable in ambient noise environments up to 60 dBA L_{dn} , and conditionally acceptable in noise environments up to 75 dBA L_{dn} . However, policy N-1 limits exterior noise levels to 65 dBA L_{dn} for new residential uses adjacent to State Route 4 corridor, major arterials within Brentwood, and noise from the UPRR. The City of Brentwood also establishes an interior noise level criterion of 45 dBA L_{dn} for residential uses.

RESPONSES TO CHECKLIST QUESTIONS Response a): Less than Significant with Mitigation.

Traffic Noise Increases

The proposed project is consistent with the City's General Plan and no traffic study was required for the project. Therefore, no substantial increases in traffic noise are predicted.

Operational Noise Increases

The proposed project would include typical residential noise which would be compatible with the adjacent existing residential uses.

Traffic and Railroad Noise at New Sensitive Receptors – Exterior Areas

As shown on Figure 6, the project site is predicted to be exposed to exterior noise levels up to approximately 67 dBA L_{dn} . This would exceed the City of Brentwood 65 dB L_{dn} Community Noise Exposure standards for new developments in the vicinity of major arterial roadways. Therefore, exterior noise control measures would be required to ensure that future residents are not exposed to exterior noise levels exceeding City standards. Specifically, 8-foot tall sound walls were analyzed at the location shown on Figure 7. Based upon the noise predictions shown on Figure 7, exterior noise levels would be reduced to 65 dBA L_{dn} , or less with use of these barriers.

Traffic and Railroad Noise at New Sensitive Receptors - Interior Areas

Based upon Figure 7, the proposed project would be exposed to exterior noise levels of up to 62 dBA L_{dn} at the ground floor building facades closest to Lone Tree Way. Second floor locations would not receive substantial shielding from the 8-foot tall sound wall and would be expected to be exposed to exterior noise levels of up to 67 dBA L_{dn} .

Modern building construction typically yields an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 70 dBA L_{dn} , or less, no additional interior noise control measures are typically required. For this project, exterior noise levels are predicted to be up to 67 dBA L_{dn} , resulting in an interior noise level of 42 dBA L_{dn} based on typical building construction. This would meet the City's 45 dBA L_{dn} interior noise level standard. Impacts resulting from exterior noise levels exceeding the threshold of significance due to interior traffic noise would be considered **potentially significant**.

Construction Activities

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. Activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA L_{max} at a distance of 50 feet. Most of the building construction would occur at distances of 50 feet or greater from the nearest residences. Construction noise associated with streets would be similar to noise that would be associated with public works projects, such as a roadway widening or paving projects.

Construction activities would be temporary in nature and would only be permitted to occur during normal daytime working hours.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration, and would occur during daytime hours.

Construction activities are conditionally exempt from the Noise Ordinance during certain hours. Construction activities are exempt from the noise standard from 7 AM to 6 PM Monday through Friday, and from 8 AM to 5 PM on Saturdays with written approval of the city engineer or designee.

Conclusion

Although construction activities are temporary in nature and would likely occur during normal daytime working hours, construction-related noise could result in sleep interference at existing noise-sensitive land uses in the vicinity of the construction if construction activities were to occur outside the normal daytime hours. Therefore, impacts resulting from noise levels temporarily exceeding the threshold of significance due to construction would be considered **potentially significant**.

Implementation of the following mitigation measures would ensure that future residences at the project site would not be subject to exterior and interior noise levels in excess of the City's standards, resulting in a **less than significant** impact.

Mitigation Measure(s)

Mitigation Measure NOI-1: Prior to approval of project improvement plans, the improvement plans for the proposed project shall show that the first-row lots shall be shielded from the Lone Tree Way through the use of eight-foot tall masonry sound walls, constructed of materials that will achieve exterior noise levels of 65 dB L_{dn} , per the approval of the City Engineer. The approximate locations of these barriers are shown on Figure 7. Other types of barrier may be employed but shall be reviewed by an acoustical engineer prior to being constructed.

Mitigation Measure NOI-2: Construction activities shall be limited to the hours set forth below:

Monday-Friday 7:00 AM to 3:30 PM or until 5:30 PM with written approval from the City Engineer Saturday 8:00 AM to 5:00 PM with written approval from the City Engineer

Construction shall be prohibited on Sundays and City holidays. These criteria shall be included in the grading plan submitted by the applicant/developer for review and approval of the Community Development Director prior to issuance of grading permits. Exceptions to allow expanded construction activities shall be reviewed on a case-by-case basis as determined by the Chief Building Official and/or City Engineer, and shall not be allowed on any date or time that would violate the City's applicable noise standards.

Mitigation Measure NOI-3: The project contractor shall ensure that the following construction noise BMPs are met on-site during all phases of construction:

- All equipment driven by internal combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc welders, air compressors) shall be equipped with shrouds and noise- control features that are readily available for that type of equipment.
- All mobile or fixed noise-producing equipment used on the project site that are regulated for noise output by a federal, state, or local agency shall comply with such regulations while in the course of project activity.
- The construction contractor shall utilize "quiet" models of air compressors and other stationary noise sources where technology exists.
- At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from sensitive receptors and placed so that emitted noise is directed away from residences.
- Unnecessary idling of internal combustion engines shall be prohibited.
- Construction staging areas shall be established at locations that would create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.
- Construction site and access road speed limits shall be established and enforced during the construction period.
- The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.
- Project-related public address or music systems shall not be audible at any adjacent receptor.
- Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.
- The construction contractor shall designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.

Construction noise BMPs shall be included in the grading plan submitted by the developer for review and approval by the Community Development Director prior to grading permit issuance.

Response b): Less than Significant. Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by several factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. The threshold for damage to structures ranges from 0.2 to 0.6 peak particle velocity in inches per second (in/sec p.p.v). One-half this minimum threshold or 0.1 in/sec p.p.v. is considered a safe criterion that would protect against architectural or structural damage. The general threshold at which human annoyance could occur is noted as 0.1 in/sec p.p.v.

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and roadway construction occur.

Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 25 to 50 feet or further from the project site. At this distance, construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and parking lot construction occur. Table 3 shows the typical vibration levels produced by construction equipment.

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009

 TABLE 3: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

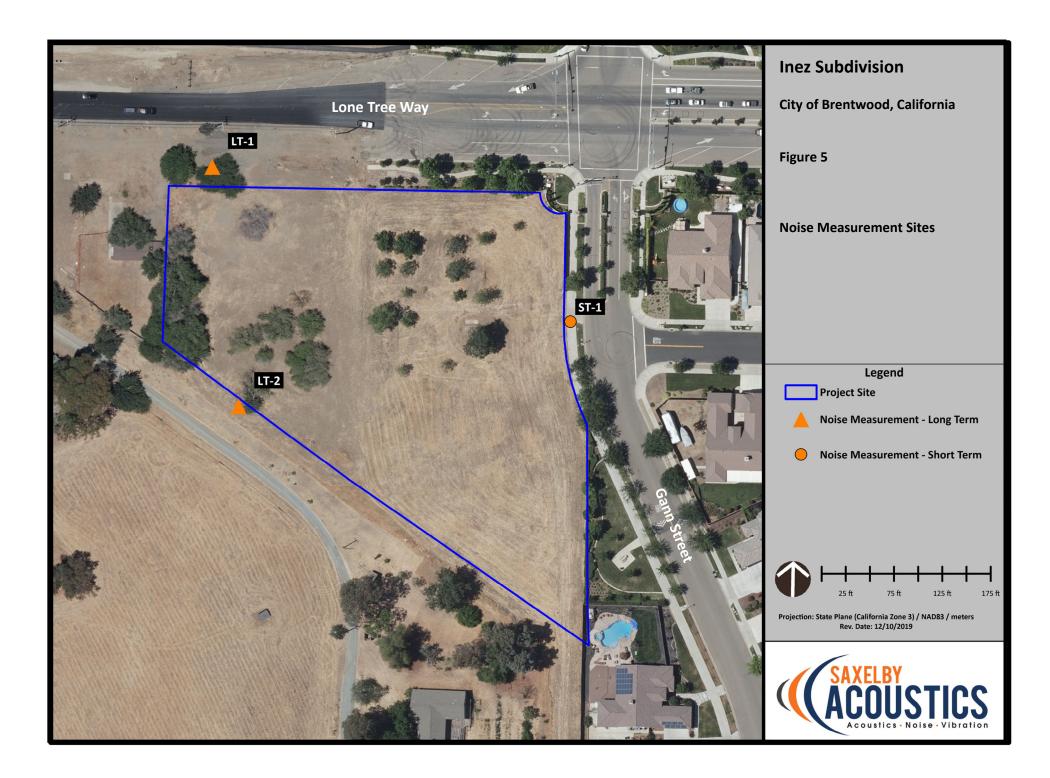
	0.210		
Vibratory Compactor/roller	(Less than 0.20 at 26 feet)	0.074	0.026

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

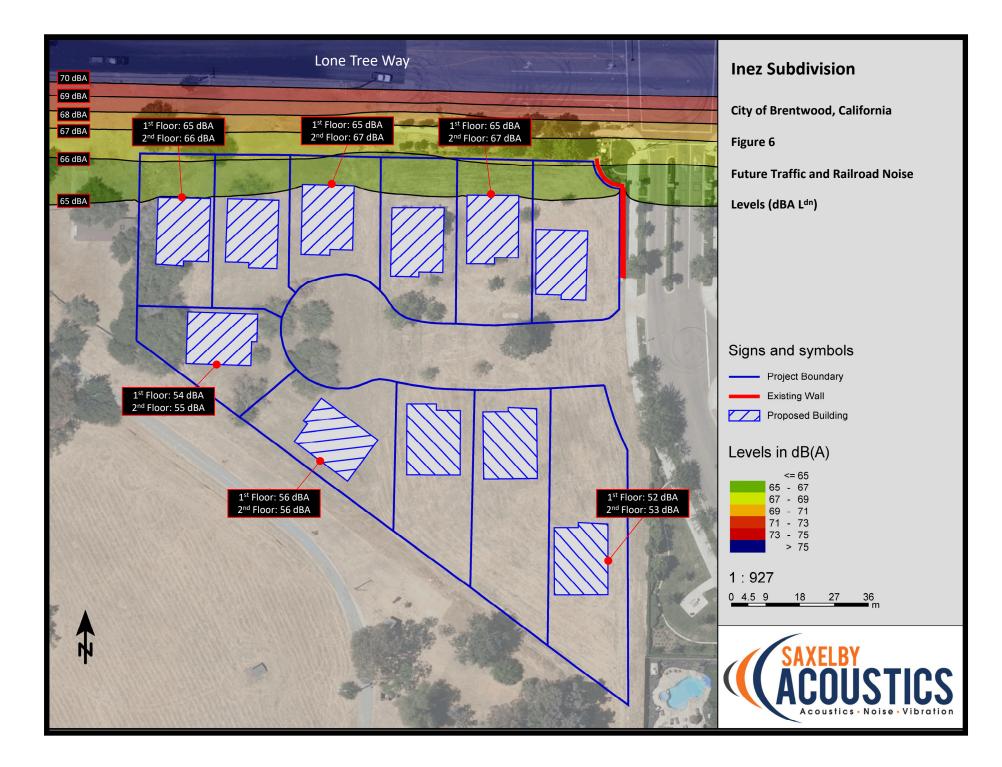
Table 3 data indicates that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours. As a result, short-term groundborne vibration impacts would be considered **less than significant** and no mitigation is required.

Response c): No Impact. The project site is not located near an existing airport and is not within an existing airport land use plan. The nearest airport, Funny Farm Airfield, is a private airfield located approximately 4 miles east of the project site. Although aircraft-related noise could occasionally be audible at the project site, noise would be extremely minimal. Exterior and interior noise levels resulting from aircraft would be compatible with the proposed project. Therefore, there would be **no impact**.

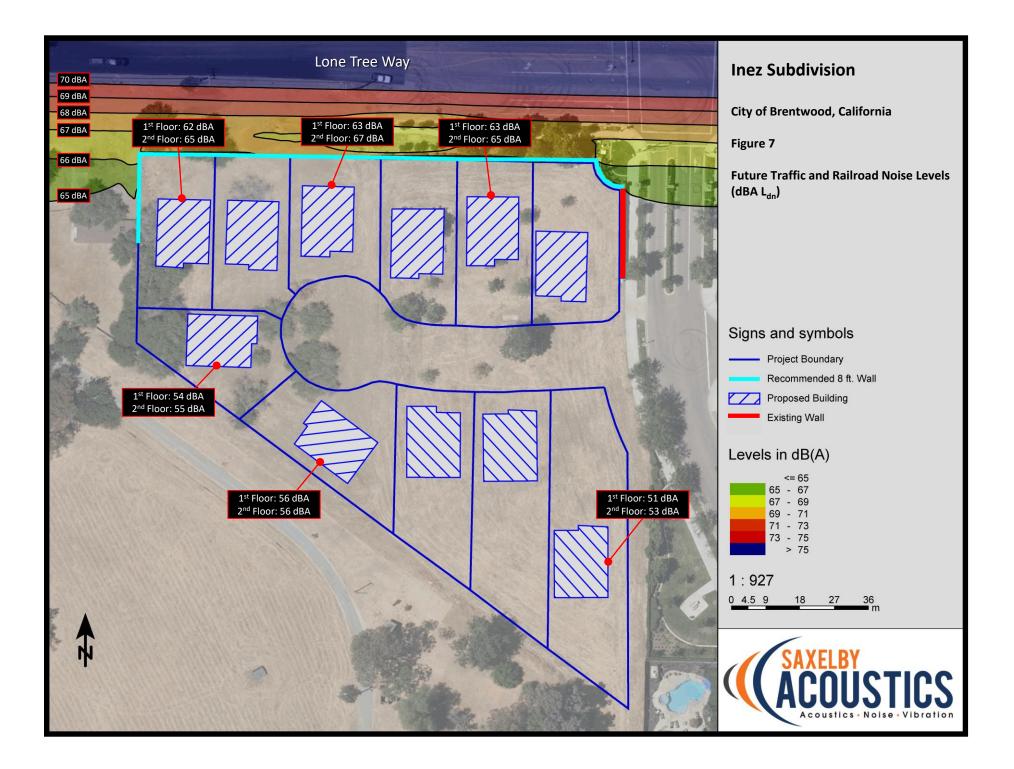
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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses)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

XIV. POPULATION AND HOUSING -- Would the project:

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less than Significant. The proposed project would directly result in population growth in the area through the proposed construction of 11 single family dwelling units, generating approximately 35 additional residents (based on 3.22 persons per household⁵). Resulting growth from the proposed project is consistent with the General Plan Land Use designation for the project site, and would fall within the anticipated population growth levels analyzed in the Brentwood General Plan EIR (2014). As discussed below, the utility systems (e.g., water and sewer) serving the project could accommodate the additional demands created by the project and the project includes infrastructure improvements needed to connect the project to these existing utility systems. In addition, as discussed below in Section XV (Public Services), public service providers such as police and fire, could accommodate the additional demands for service created by the project. As a result, the impact would be **less than significant** with respect to inducing population growth because the demands resulting from said growth could be accommodated by existing utility systems and service providers.

Responses b): No Impact. There are no existing homes or residences located on the project site. There is **no impact**.

⁵ City of Brentwood. 2014 Brentwood General Plan Update EIR [pg. 3.10-32]. July 22, 2014.

XV. PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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:				
a) Fire protection?			Х	
b) Police protection?			Х	
c) Schools?		Х		
d) Parks?		Х		

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less than Significant. The proposed project is located within the jurisdiction of the East Contra Costa Fire Protection District (ECCFPD). In accordance with ECCFPD efforts to reorganize due to budgetary constraints and the failure of the recent parcel tax, the district employs 34 personnel: 3 Battalion Commanders, 10 Captains, 10 Engineers, and 11 Firefighters. The District currently staffs three stations, one station in Oakley, one in Discovery Bay, and one in Brentwood.

- Station 52, at 201 John Muir Parkway, Brentwood
- Station 59, at 1685 Bixler Road, Discovery Bay
- Station 93, at 530 O'Hara Avenue, Oakley

The City of Brentwood is served primarily by Station 52. Station 52 is located roughly 3 miles southwest of the project site.

The Brentwood General Plan includes nine policies and four actions (Policies CSF 1-1 through 1-3, and 4-1 through 4-6, and Actions CSF 1a, and 4a-c) to ensure that fire protection services are provided in a timely fashion, are adequately funded, are coordinated between the City and appropriate service agency, and that new development pays their fair share of services. Among the action items included in the Brentwood General Plan that are applicable to the project are:

• Action CSF 1a: Requiring new development to pay their fair share fees of the cost of on and off-site community services and facilities;

- Action CSF 4a: Continue to enforce the California Building Code and the California Fire Code to ensure that all construction implements fire-safe techniques, including fire resistant materials, where required;
- Action CSF 4b: As part of the City's existing development review process for new projects, the City would continue to refer applications to the ECCFPD for determination of the project's potential impacts on fire protection services. Requirements would be added as conditions of project approval, if appropriate.

The project would comply with these General Plan actions. For example, the City of Brentwood collects development impact fees that support the construction of new fire facilities in the amount of approximately \$905 per new single-family residence. In addition to providing additional revenue for fire facilities, the project would be required to comply with all ECCFPD standard conditions of approval related to provision of fire flow, roadway widths, etc. The project is also subject to the City of Brentwood residential life safety sprinkler requirements set forth in Section 15.64.010 of the Municipal Code.

ECCFPD currently has adequate capacity to provide fire protection services for the proposed project without inducing demand for an additional fire station⁶. Additionally, the 2014 Brentwood General Plan Update EIR concluded implementation of the General Plan would result in a less than significant impact related to the provision of public services throughout the City.⁷ The project is consistent with the General Plan designation for the site; therefore, the additional demand for fire protection services resulting from the proposed project has already been evaluated in the General Plan EIR. Given the project's compliance with the relevant General Plan policies and actions related to fire service, the impact from the proposed project, consistent with the General Plan EIR determination, would be **less than significant** regarding the need for the construction of new fire protection facilities which could cause significant environmental impacts.

Response b): Less than Significant. The City of Brentwood Police Department would provide police protection services to the project site. Currently, the Brentwood Police Department provides law enforcement and police protection services throughout the City. Established in 1948, the Brentwood Police Department is a full service law enforcement agency that is charged with the enforcement of local, State, and Federal laws, and with providing 24-hour protection of the lives and property of the public. The Police Department functions both as an instrument of public service and as a tool for the distribution of information, guidance, and direction.

The Brentwood Police Department services an area of approximately 14 square miles. As of November 2019, the Department had 62 sworn police officers and another 30 civilian support

⁶ Personal Communication with Steve Aubert, City of Brentwood Fire Department Fire Marshal. February 24, 2020.

⁷ City of Brentwood. 2014 Brentwood General Plan Update EIR [pg. 3.12-23]. July 22, 2014

staff. In addition to the permanent staff, the Department had approximately 20 volunteers who are citizens of the community and assist with day to day operations.

The department is located at 9100 Brentwood Boulevard, approximately four miles from the project site.

The Brentwood General Plan includes eight policies and five actions (Policies CSF 1-1 through 1-3, and 3-1 through 3-5; and Actions CSF 1a and 3a-d) to ensure that police protection services are provided in a timely fashion, are adequately funded, are coordinated between the City and appropriate service agency, and that new development pays their fair share of services. Among the policies and actions items included in the Brentwood General Plan that are applicable to the project are:

- Policy CSF 3-4: Emphasize the use of physical site planning as an effective means of preventing crime. Open spaces, landscaping, parking lots, parks, play areas, and other public spaces should be designed with maximum feasible visual and aural exposure to community residents.
- Policy CSF 3-5: Promote coordination between land use planning and urban design through consultation and coordination with the Police Department during the review of new development applications.
- Action CSF 1a: Requiring new development to pay their fair share fees of the cost of on and off-site community services and facilities;
- Action CSF 3c: As part of the development review process, consult with the police department in order to ensure that the project design facilitates adequate police staffing and that the project addresses its impacts on police services.

The project applicant will be required by the City to comply with these policies and actions. In addition, the City also has Community Facilities Districts which generate special tax revenue that can be used for a variety of services, and which are currently being allocated primarily towards public protection and safety provided by the Brentwood Police Department. These funds amount to approximately \$1,595 per year per home and could be used to fund new facilities, and maintain existing facilities and equipment, and pay for salaries and benefits.

Therefore, consistent with the General Plan EIR conclusion related to governmental facility impacts resulting from General Plan build-out, the project would have a **less than significant** impact regarding the need for the construction of new police protection facilities which could cause significant environmental impacts.

Response c): Less than Significant with Mitigation. The project site is located within the Liberty Union High School District and the Brentwood Union School District (BUSD). Liberty Union High School District (LUHSD) includes three comprehensive high schools: Liberty High, Freedom High, and Heritage High. In addition, the District includes one continuation high school, La Paloma, and one alternative high school, Independence High School. According to the LUHSD, all three comprehensive high school sites were built with a 2,200 student capacity; this capacity is currently being exceeded at all three high schools and facility needs are being met

with portables.⁸ The LUHSD student generation factors for grades 9-12 are 0.2074 for single-family detached units. With 11 single-family units, the project is expected to generate approximately 2 new high school students. Available capacity does not exist to accommodate these additional students.

The BUSD consists of eight elementary schools and three middle schools. In 2019 the District had a K-6th grade enrollment of 7,026 with K-6th capacity of 6,391. The District's 2019 7-8th grade enrollment is 2,260 with a 7-8th grade capacity of 2,354⁹. Therefore, the District has excess capacity for another 455 K-6th grade students, but is over capacity for grades 7-8th by approximately 141 students. Utilizing the District's current Student Generation Rates, the 11 units proposed for the proposed project would introduce approximately 4 new K-6th students (11 * 0.32) to the District and 1 new 7-8th grade student (11 * 0.12). Available capacity exists to accommodate 7-8th students anticipated from the project, but not the new K-6th grade students.

The applicant is required to pay school impact fees. 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."

Because the LUHSD is already over capacity; and the BUSD is over capacity for grades 7-8, adding students to the districts may result in further overcrowding and compromising programs. Therefore, the project would have a potentially significant impact regarding the need for the construction of new school facilities which could cause significant environmental impacts.

Consistent with State law, implementation of the following mitigation measure would reduce the impacts to a **less than significant** level.

Mitigation Measure(s)

Mitigation Measure PUB-1: Prior to building permit issuance for any residential development, the developer shall submit to the Community Development Department written proof from the Liberty Union High School District and the Brentwood Union School District that appropriate school mitigation fees have been paid.

Response d): Less than Significant with Mitigation. The proposed project includes the construction of 11 residences. Applying the Brentwood standard of 3.22 residents per dwelling unit, the proposed project would create housing for approximately 35 additional residents. The Brentwood General Plan calls for 5 acres of park per 1,000 residents. The proposed project would thus require approximately 0.18 acres of park space for these additional residents. However, the proposed project does not include active park space as called for in the General Plan. Therefore, the project could result in a **potentially significant** impact.

⁸ As cited in the Bella Fiore IS/MND, dated August 2014 (pg. 86): Debra Fogarty, Chief Business Officer, Liberty Union High School District, email communication, November 12, 2013.

⁹ Cooperative Strategies. School Facility Needs Analysis for Brentwood Union School District. May 9, 2019

Implementation of the following mitigation measure would ensure that the City requirements are satisfied, resulting in a **less than significant** impact.

Mitigation Measure(s)

Mitigation Measure PUB-2: Prior to the recordation of final map(s), the project applicant shall pay the required park in-lieu fees as determined by the Parks and Recreation Department and the Community Development Department.

XVI. RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?		Х		
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?		Х		

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Less than Significant With Mitigation. As explained above in Question 'd' of the Public Services section, the proposed project does not include sufficient park land acreage for the 11 residential units. As a result, in-lieu fee payments would be required to meet the City's park land requirements. Therefore, the proposed project's impact related to the provision of adequate recreational facilities would be **potentially significant**.

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

Mitigation Measure(s) Implementation of Mitigation Measure PUB-2.

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

XVII. TRANSPORTATION -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Response a), b): Less than Significant Access to the site would be via a proposed road off of Gann Street that would terminate in a cul-de-sac. Gann Street is a north-south street in northern Brentwood that currently terminates at Lone Tree Way to the north and Gold Poppy Street to the southeast. This route generally has two lanes in each direction, turn lanes at intersections and sidewalks. The posted speed limit is 25 mph.

The nearest major intersection to the project site, and the one most likely to be affected by project generated traffic, is the intersection of Lone Tree Way and Gann Street, immediately northeast of the project site. As shown in Table 3.13-4 of the General Plan EIR, this intersection currently has an AM peak hour LOS of B and PM peak hour LOS of A.

The General Plan designates the project site for residential uses, consistent with the uses proposed by the project. As such, the traffic generated by the proposed project would fall within the analysis parameters in the General Plan EIR, and would not degrade roadway operations or level of service beyond the levels analyzed in the General Plan EIR.

The project would not have any detrimental effects on the existing and planned bicycle and pedestrian network in Brentwood, nor would it conflict with any plans or planned improvements to these systems. The project is a single family neighborhood surrounded by similar residential uses, and as such, the vast majority of people travelling to and from the site would travel in their vehicles. However, it is possible that residents would travel to and from via bicycle or on foot.

Sidewalks exist on the southbound travel lane on Gann Street, immediately east of the project site. While the proposed access at Gann Street will divide the existing sidewalk, crossing and

street frontage improvements will be provided that will facilitate pedestrian continuity. As such, the project would not substantially degrade pedestrian conditions.

In summary, impacts related to conflicts with a program plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities, would be less than significant and any impacts related to an increase in vehicle miles travelled as addressed in CEQA Guidelines section 15064.3 would be **less than significant**

Response c): Less than Significant. No site circulation or access issues have been identified that would cause a traffic safety problem/hazard or any unusual traffic congestion or delay that could impede emergency vehicles or emergency access. Parking for the project would be provided by garages and driveways for each residence, and additional on street parking options available for emergency vehicles. The site access, on-site circulation, and parking is adequate. Therefore, the project will not increase hazards due to a geometric design feature or incompatible use. In addition, the project will undergo a comprehensive site plan review by the City. This impact would be **less than significant**.

Responses d): Less than Significant. Access to the site would be via a proposed cul-de-sac road off of Gann Street. The proposed site plan is shown in Figure 4. All accesses would be designed to City standards that accommodate turning requirements for fire trucks, facilitating entry by emergency vehicles into the project site. Implementation of the proposed project would have a less than significant impact related to emergency access, and would not interfere with an emergency evacuation plan. Therefore, the impact is less than significant.

XVIII. TRIBAL CULTURAL RESOURCES

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

Background

Assembly Bill 52 (AB 52) requires a lead agency, prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report for a project, to begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project if: (1) the California Native American tribe requested to the lead agency, in writing, to be informed by the lead agency through formal notification of proposed projects in the geographic area that is traditionally and culturally affiliated with the tribe, and (2) the California Native American tribe responds, in writing, within 30 days of receipt of the formal notification, and requests the consultation. The City of Brentwood received requests from two California Native American tribes to be informed through formal notification of proposed projects in the City's geographic area. No requests for consultation were received from either tribe with respect to this project.

RESPONSES TO CHECKLIST QUESTIONS

Responses a.i), **a.ii): Less than Significant with Mitigation.** The City of Brentwood General Plan and EIR do not identify the site as having prehistoric period cultural resources. Additionally, there are no unique cultural resources known to occur on, or within the immediate vicinity of the project site. The site has previously been used for agricultural uses. No instances of cultural resources or human remains have been unearthed on the project site. However, based on the record search conducted by the Northwest Information Center of the California Historical Resources Information System on December 12, 2019 (NWIC file No.:19-0989) (see Appendix B), the project site has the potential for the discovery of prehistoric, ethnohistoric, or historic archaeological sites that may meet the definition of Tribal Cultural Resources have been documented in the project site, the project is located in a region where cultural resources have been recorded and there remains a

potential that undocumented archaeological resources that may meet the Tribal Cultural Resource definition could be unearthed or otherwise discovered during ground-disturbing and construction activities. Examples of significant archaeological discoveries that may meet the Tribal Cultural Resources definition would include villages and cemeteries.

Due to the possible presence of undocumented Tribal Cultural Resources within the project site, construction-related impacts on tribal cultural resources would be potentially significant. Implementation of Mitigation Measures CUL-1 and CUL-2 would require appropriate steps to preserve and/or document any previously undiscovered resources that may be encountered during construction activities, including human remains. Implementation of these measures, in addition to Mitigation Measure TRI-1, would reduce this impact to a **less than significant** level.

Mitigation Measure(s)

Implement Mitigation Measures CUL-1 and CUL-2.

Mitigation Measure TRI-1: If cultural resources are discovered during project-related construction activities, all ground disturbances within a minimum of 50 feet of the find shall be halted until a qualified professional archaeologist can evaluate the discovery. The archaeologist shall examine the resources, assess their significance, and recommend appropriate procedures to the lead agency to either further investigate or mitigate adverse impacts. If the find is determined by the lead agency in consultation with the Native American tribe traditionally and culturally affiliated with the geographic area of the project site to be a tribal cultural resource and the discovered archaeological resource cannot be avoided, then applicable mitigation measures for the resource shall be discussed with the geographically affiliated tribe. Applicable mitigation measures that also take into account the cultural values and meaning of the discovered tribal cultural resource, including confidentiality if requested by the tribe, shall be completed (e.g., preservation in place, data recovery program pursuant to Public Resources Code §21083.2[i]). During evaluation or mitigative treatment, ground disturbance and construction work could continue on other parts of the project site.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, or wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			Х	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			Х	
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 projects projected demand in addition to the providers existing commitments?			Х	
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?			Х	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			Х	

XIX. UTILITIES AND SERVICE SYSTEMS -- WOULD THE PROJECT:

RESPONSES TO CHECKLIST QUESTIONS

Responses a), and c): Less than Significant. The following discussion addresses available wastewater treatment plant (WWTP) capacity and wastewater infrastructure to serve the project site.

Wastewater Treatment Plant Capacity

The existing WWTP is located on approximately 70 acres of land owned by the City on the north side of Sunset Road and east of Brentwood Boulevard. The WWTP is designed to have sufficient capacity to handle all wastewater flows at build-out per the General Plan. The WWTP has a current treatment capacity of 5 million gallons per day (mgd) with an average dry weather flow (ADWF) of 3.6 mgd in 2013.

The current WWTP system is designed to expand to 10 mgd in 2.5 mgd increments and the City collects development impact fees from new development to fund future expansion efforts. Phase I of the WWTP expansion was completed in 1998-2002, to bring the treatment plant to current levels. Preliminary planning of the Phase II expansion of the WWTP has been completed. Final design is currently underway and construction would follow after that. Phase

II would expand capacity to 7.5 or 10.0 mgd by adding oxidation ditches, secondary clarifiers, filters, and related appurtenances.

Buildout of the proposed project would result in the construction of 11 dwelling units generating approximately 35 additional residents (based on 3.22 persons per household). The 2014 Brentwood General Plan Update EIR uses a wastewater generation factor of 85 gallons per day per person of residential development. Therefore, the total wastewater flow from the project site would be about 0.003 MGD. Therefore, the current capacity of the WWTP would be sufficient to handle the wastewater flow from the proposed project. In addition, the proposed project is required to pay sewer impact fees which would contribute towards the cost of future upgrades, when needed. As a result, the proposed project would not have adverse impacts to wastewater treatment capacity.

Wastewater Infrastructure

The wastewater generated by the project would be collected by an internal sewer system, which would connect to the existing sewer conveyance line along Gann Street in the eastern portion of the project site.

Conclusion

Because the project applicant would pay City sewer impact fees, and adequate long-term wastewater treatment capacity is available to serve full build-out of the project, a **less than significant impact** would occur related to requiring or resulting in the construction of new wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects.

Response b): Less than Significant. The following discussion addresses available water supply infrastructure to serve the project site.

Water Supply System

The City of Brentwood has prepared an Urban Water Management Plan (UWMP) that predicts the water supply available to the City of Brentwood in normal, single-dry, and multiple-dry years out to 2035. The total supply available in 2035 during all scenarios (normal, single-dry, and multiple-dry) well exceeds the projected demand. The future demand projections included in the UWMP are based upon General Plan land uses. The proposed project's use is consistent with the General Plan; therefore, the proposed project's future water demand was considered in the UWMP. As a result, with respect to the availability of sufficient water supplies to serve the project, the impact from the proposed project would be **less than significant**.

Water Supply Infrastructure

The project would involve the construction of the necessary water infrastructure to serve the proposed neighborhoods. The project includes installation of 8-inch water lines within the internal street ROWs which would connect to the existing mains along Gann Street.

Conclusion

Because adequate long-term water supply is available to serve full buildout of the proposed project and the project includes the extension of adjacent water line infrastructure, the project's impact to water supply would be **less than significant**.

Responses d) and e): Less than Significant. The City's Solid Waste Division, a division of the Public Works Department, provides municipal solid waste collection and transfer services for residential and commercial use within the City of Brentwood. The solid waste from Brentwood is disposed of at Keller Canyon County landfill. Keller Canyon Landfill covers 2,600 acres of land; 244 acres are permitted for disposal. The site currently handles 2,500 tons of waste per day, although the permit allows up to 3,500 tons of waste per day to be managed at the facility. As of September 2008, the remaining capacity of the landfill's disposal area is estimated at 60-64 million cubic yards, and the estimated closing date for the landfill is 2050¹⁰. Because the 2014 Brentwood General Plan Update EIR determined that solid waste capacity is adequate to serve the demand resulting from General Plan build-out and the proposed project's use is consistent with the General Plan designation for the project site; the project's impact to solid waste would be less than significant. This is a **less than significant** impact.

¹⁰ City of Brentwood. 2014 Brentwood General Plan Update EIR [pg. 3.14-45]. July 22, 2014.

XX. WILDFIRE

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			Х	
d) 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?			Х	
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?			Х	
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?			Х	

EXISTING SETTING

There are no State Responsibility Areas (SRAs) within the vicinity of the Brentwood Planning Area. The City of Brentwood is not categorized as a "Very High" Fire Hazard Severity Zone (FHSZ) by CalFire. Only a few communities within Contra Coasta County have portions categorized as a "Very High" FHSZ by CalFire. Although this CEQA topic only applies to areas within a SRA or Very High FHSZ, out of an abundance of caution, these checklist questions are analyzed below.

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less Than Significant. The project site will connect to an existing network of City streets. The proposed circulation improvements would allow for greater emergency access relative to existing conditions. The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, impacts from project implementation would be considered *less than significant* relative to this topic.

Response b): Less Than Significant. The risk of wildfire is related to a variety of parameters, including fuel loading (vegetation), fire weather (winds, temperatures, humidity levels and fuel moisture contents) and topography (degree of slope). Steep slopes contribute to fire hazard by intensifying the effects of wind and making fire suppression difficult. Fuels such as grass are highly flammable because they have a high surface area to mass ratio and require less heat to reach the ignition point. The project site is located in an area that is predominately urban,

which is not considered at a significant risk of wildlife. Therefore, impacts from project implementation would be considered *less than significant* relative to this topic.

Response c): Less Than Significant. The project includes development of infrastructure (water, sewer, and storm drainage) required to support the proposed single-family use. The project site is surrounded by existing and future urban development. The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The project would not require the installation or maintenance of infrastructure that may exacerbate fire risk. Therefore, impacts from project implementation would be considered *less than significant* relative to this topic.

Response d): Less Than Significant. The proposed project would require the installation of storm drainage infrastructure to ensure that storm waters properly drain from the project site and do not result in downstream flooding or major drainage changes. Storm drainage would be conveyed to on-site bioretention areas, which will discharge to the City's storm drainage system. The project proposes to include 3 bioretention areas in the throughout the site. Various storm drainage supporting structures and inlets will be located throughout the project site directing the direction of flow into the bioretention areas.

Runoff from the project site currently flows to the existing City storm drains located in Gann Street and Lone Tree Way. Upon development of the site, stormwater would flow to the on-site bioretention areas and/or the existing storm drains in the adjacent roadways. Additionally, the project site is not located within a FEMA designated flood hazard zone. Furthermore, because the site is essentially flat and located in an existing urbanized area of the City, downstream landslides would not occur.

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

Overall, impacts from project implementation would be considered *less than significant* relative to this topic.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	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?			Х	
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)?			Х	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			Х	

XXI. MANDATORY FINDINGS OF SIGNIFICANCE --

RESPONSES TO CHECKLIST QUESTIONS

Response a): Less than Significant. Although relatively unlikely, based upon the current land cover types found on-site, special- status wildlife species and/or federally- or state-protected birds not covered under the ECCCHCP could be occupying the site. In addition, although unlikely, the possibility exists for subsurface excavation of the site during grading and other construction activities to unearth deposits of cultural significance. However, this IS/MND includes mitigation measures that would reduce any potential impacts to less than significant levels. Therefore, the proposed project would have **less than significant** impacts related to degradation of the quality of the environment, reduction of habitat, threatened species, and/or California's history or prehistory.

Response b): Less than Significant. The proposed project in conjunction with other development within the City of Brentwood could incrementally contribute to cumulative impacts in the area. However, mitigation measures for all potentially significant project-level impacts identified for the proposed project in this IS/MND have been included that would reduce impacts to less than-significant levels. As such, the project's incremental contribution towards cumulative impacts would not be considered significant. In addition, all future discretionary development projects in the area would be required to undergo the same environmental analysis and mitigate any potential impacts, as necessary. Therefore, the proposed project would not have any impacts that would be cumulatively considerable, and impacts would be **less than significant**.

Response c): Less than Significant. The proposed project site is located within areas of existing and planned development and is consistent with the land use designation for the site. Due to the consistency of the proposed land use, substantial adverse effects on human beings are not anticipated with implementation of the proposed project. It should be noted that during construction activities, the project could result in potential impacts related to soil erosion and surface water quality impacts, and noise. However, this IS/MND includes mitigation measures that would reduce any potential impacts to a less-than-significant level. In addition, the proposed project would be designed in accordance with all applicable building standards and codes to ensure adequate safety is provided for the future residents of the proposed project. Therefore, impacts related to environmental effects that could cause adverse effects on human beings would be **less than significant**.

REFERENCES

- 2005 Ozone Strategy (BAAQMD 2006). January 2006.
- 2014 Brentwood General Plan Update EIR (City of Brentwood, 2014). July 2014.
- 2014 Brentwood General Plan Update (City of Brentwood, 2014). July 2014.
- 2018. City of Brentwood Development Fee Program (City of Brentwood, 2017). November 14, 2017.
- Arborist Report for a Portion of the Inez Estates Subdivision (Giannini property) in Brentwood, (Traverso Tree Service, 2019) June 18, 2019.
- CEQA Guidelines (BAAQMD, 2017). May 2017.
- City of Tracy 2015 Urban Water Management Plan (Erler & Kalinowski, Inc. 2016). July 2016.
- East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (East Contra Costa Habitat Conservation Plan Association, 2006). October 2006.
- Environmental Noise Assessment, Inez Subdivision (Saxelby Acoustics LLC). December 18, 2019.
- Geotechnical Investigation, Lone Tree Way Residential Development (TRC, 2019). May 28, 2019.
- Phase 1 Environmental Site Assessment, Lone Tree Way Project (TRC, 2019). August, 2019.
- Personal Communication with Steve Aubert, City of Brentwood Fire Department Fire Marshal. February 24, 2020.
- Removal Action Work Plan, Skipolini Property (ENGEO, 2019). August 5, 2019.
- Revised San Francisco Bay Area Ozone Attainment Plan for the 1-Hour National Ozone Standard (BAAQMD, 1999). June 1999.
- School Facility Needs Analysis for Brentwood Union School District (Cooperative Strategies, 2019) May 9, 2019
- U.S. Fish and Wildlife Service San Joaquin Kit Fox Survey Protocol for the Northern Range (Sacramento Fish and Wildlife Office, 2011). June 1999.
- Voluntary Cleanup Agreement, Skipolini Property (Cal EPA, DTSC). March 13, 2019.

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Appendix A

Arborist Report



June 18, 2019

Brian S. Kesler Cyrus Land Investments, LLC Jacqueline M. Seeno Construction Co., Inc. 4021 Port Chicago Highway Concord, CA 94520 <u>bkesler@seenohomes.com</u>

Re: Arborist Report for a Portion of the Inez Estates Subdivision (Giannini property), in Brentwood

Dear Brian,

This arborist report addresses the newly acquired Giannini property, APN 018-080-025, to be included with previously inventoried lots for the proposed "Inez Estates" subdivision. This parcel is located half way in a vacant field adjacent to Lone Tree Way and Gann Street. Per the City of Brentwood's Oak Tree Preservation Ordinance Chapter 17.470.006, this report shall include the following:

- Tag, identify and measure all oak trees with a trunk diameter of 4" or larger, measured at 4.5' above grade, and all other trees > 6" in diameter.
- Identify dripline locations and tree numbers on site plan.
- Assess individual tree health and structural condition.
- Assess proposed improvements for potential encroachment.
- Based on proposed encroachment, tree health, structure, and species susceptibility, make recommendations for preservation.

Site Summary

The site is flat and currently undeveloped. There are a total of 13 trees that are on or just outside the property. The tree inventory consists of 3 young valley oaks and 1 mature blue oak in fair to good condition, and 8 mature Siberian elms and 1 mulberry all in poor condition.

It is my opinion that the 9 non-native species are not worthy of retention, even if they are not to be impacted by the development. The 4 oaks, although fairly healthy, have less than desirable forms, leaning, one-sided, co-dominant stems, etc. They could be improved a bit through pruning, but I would not consider them highly desirable specimens. I suspect 2 property line oaks could be retained based on the tentative site plans. A 4" & 14" oak and all the non-native trees will need to be removed.

Assumptions & Limitations

This report is based on my site visit on 6/12/19, and the Tentative Site Plans provided by Apex Engineering dated May 20, 2019. Limited information was available at the time of this report; it's possible that the two property line oaks may also need to be removed, once more details of the lot improvements become available.

The health and structure of the trees were assessed visually from ground level. No drilling, root excavation, or aerial inspections were performed. Internal or non-detectable defects may exist, and could lead to part or whole tree failures. Due to the dynamic nature of trees and their environment, it is not possible for arborists to guarantee that trees will not fail in the future.

Tree Inventory & Assessment Table

#s: Each tree was given a numerical tag from #11-23. Their locations are shown on the attached aerial Google site map and site plan.

DBH: (Diameter at Breast Height): Trunk diameters in inches were calculated from the circumference measured at 4.5' above average grade.

Health & Structural Condition Rating

Dead: Dead or declining past chance of recovery.

Poor (P): Stunted or declining canopy, poor foliar color, possible disease or insect issues. Severe structural defects that may or may not be correctable. Usually not a reliable specimen for preservation.

Fair (F): Fair to moderate vigor. Minor structural defects that can be corrected. More susceptible to construction impacts than a tree in good condition.

Good (G): Good vigor and color, with no obvious problems or defects. Generally more resilient to impacts.

Very Good (VG): Exceptional specimen with excellent vigor and structure. Unusually nice.

<u>Age</u>

Young (Y): Within the first 20% of expected life span. High resiliency to encroachment.

Mature (M): Between 20% - 80% of expected life span. Moderate resiliency to encroachment.

Overmature (OM): In >80% of expected life span. Low resiliency to encroachment.

DE: Dripline Encroachment (X indicates encroachment)

Cl: Anticipated Construction Impact (L = Low, M = Moderate, H = High)

PA: Project Arborist

#	Species	DBH	Health	Structure	N	Drij E	oline S	w	Age	DE	CI	Comments	Action
11	Siberian Elm <i>Ulmus pumila</i>	15", 18", 16", 20"	Poor	Poor	15	14	13	14	ОМ	Х	Η	Poor specimen, broken leaders, dieback, drought stressed.	Remove
12	Siberian Elm <i>Ulmus pumila</i>	9, 11, 10	Poor	Poor	12	12	12	14	ОМ	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove
13	Siberian Elm <i>Ulmus pumila</i>	10, 14, 7	Poor	Poor	14	8	8	14	OM	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove

#	Species	DBH	Health	Structure	N	Drij E	pline S	w	Age	DE	CI	Comments	Action
14	Siberian Elm <i>Ulmus pumila</i>	7, 5, 5, 4	Poor	Poor	7	7	7	7	ОМ	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove
15	Siberian Elm <i>Ulmus pumila</i>	20"	Poor	Poor	25	-	-	-	ОМ	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove
16	Valley Oak Quercus lobata	10, 12	Good	Fair	6	12	22	10	М	?	?	Co-dominant leaders. Leader from adjacent elm broke out and wedged in canopy.	Save if possible.
17	Valley Oak <i>Quercus lobata</i>	4	Good	Fair	3	3	3	3	Y	Х	Н	Small leaning tree in middle of lot. Was hit by fallen dead elm.	Remove
18	Siberian Elm <i>Ulmus pumila</i>	8, 8, 9, 12	Poor	Poor	20	20	15	20	ОМ	?	?	Poor specimen, broken leaders, dieback, drought stressed.	Remove
19	Fruitless Mulberry <i>Morris alba</i>	19	Fair	Poor	15	15	20	15	ОМ	?	?	Decent foliage, butt previously topped and prone to future breakage.	Remove
20	Valley Oak <i>Quercus lobata</i>	9	Good	Fair	5	12	20	5	Y	?	?	5' from existing stucco wall. One-sided due to neighbor's olives. At southwest corner of lot 5. Protection fence at dripline.	Save if possible. Prune
21	Blue Oak Quercus douglasii	14	Good	poor	-	20	-	-	ОМ	Х	Н	One-sided with a heavy 45 degree sweeping lean to the east towards development.	Remove
22	Siberian Elm <i>Ulmus pumila</i>	29	Poor	Poor	10	20	25	20	OM	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove
23	Siberian Elm <i>Ulmus pumila</i>	23, 20	Poor	Poor	10	25	15	15	OM	Х	Н	Poor specimen, broken leaders, dieback, drought stressed.	Remove

Discussion

Assuming all utilities, grading, and construction activities can avoid encroaching upon the driplines of oak trees #16 & #20, it is my opinion that those two trees are worthy of retention. The remaining 11 trees on the property are in poor condition and not worthy of retention.

Recommendations

<u>Pre-grading</u>

- Remove trees #11-15, 17-19, and 21-23 (11 trees).
- Apply a 3" thick layer of chipper mulch from removals under trees #16 & 20 to be saved. Keep mulch at least 12" from trunks.
- Prune to remove deadwood in trees #16 & 20.
- Establish a tree protection zone (TPZ) by encompassing the driplines of trees #16 & 20 with chain-link fencing.

Grading and Construction Phase

- Keep all construction debris, fill soils, equipment, supplies, and toxic materials outside the TPZ's.
- Keep TPZ fencing in place until construction activities are completed and the project arborist approves its removal.
- Any TPZ encroachment deemed necessary shall be discussed and approved by the project arborist.

Site photos and maps attached

Please feel free to contact me if there are any questions or concerns.

Sincerely,

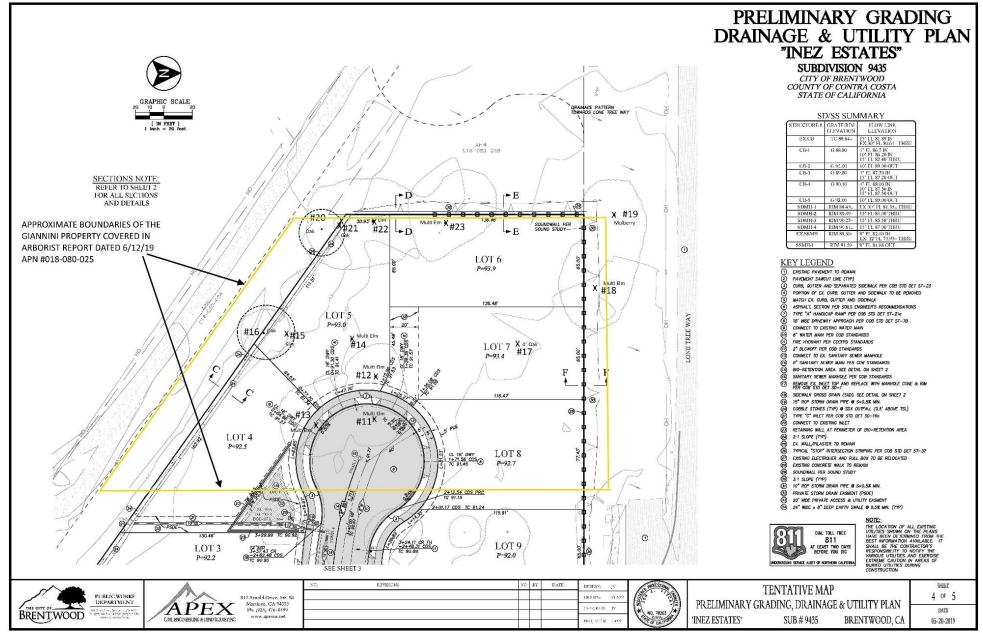
an Chaverso

John C Traverso ISA Board Certified Master Arborist #0206-BT ISA Tree Risk Assessor Qualified



Site Photos

Google Map



Tentative Grading & Drainage









Appendix B

Paleontological and Cultural Resources Assessment (Confidential)

Appendix C

Energy Calculations

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source. Site preparation, and grading energy were used as the basis of this calculation.

Given Factor:	10.55 metric tons	CO2 (provided in CalEEM	od Output File)
Conversion Factor:	2204.62 pounds	per metric ton	
Intermediate Result:	23,256 pounds	CO2	
Conversion Factor:	22.38 pounds	CO2 per 1 gallon of diesel fuel	(Source: U.S. EIA, 2016.
Final Result:	1,039.14 gallons	diesel fuel	Website: http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11)

On-road Mobile (Operational) Energy Usage

Note: For the sake of simplicity, it was assumed that passenger vehicles, light duty trucks, motorcycles, and mobile homes use gasoline, and all medium-duty trucks, heavy-duty trucks, and buses use diesel fuel.

Unmitigated:

Unmitigat	.ed:										
Step 1:	Total Net Daily Trips (provided by Fel	nr & Peers)									
	103										
	<u>Res H-W</u> <u>Res H-S</u> <u>Res H-O</u>										
	Trip Length (miles) (provided by CalE	EMod)									
	10.8 4.8 5.7	7									
	Trip %	_									
	31.00% 15.00% 54.00%	6									
	Average Trip Length (weighted average	ge)									
	7.1										
	Therefore:										
	Average Daily VMT:										
	736										
Step 2:	Given:										
	Fleet Mix (provided by CalEEMod v20	16.3.2)									
	LDA LDT1 LDT2	MDV L	LHD1 I	LHD2	MHD HH	OBUS	UBUS	MCY	SBUS	S MH	
	58.2% 3.9% 18.6%	6 12.3%	1.7%	0.5%	1.1%	2.4%	0.2%	0.1%	0.5%	0.3%	0.1%
	And:										
	Gasoline MPG Factors for each Vehic	e Class (from EMI	FAC2014) - Year	2020							
	LDA LDT1 LDT2		-	MH	OBUS						
	29.93009483 24.879991 22.223868	8 16.02637345	36.90467564	6.572330026	6.572733						
	Diesel MPG Factors for each Vehicle O)20							
	LHD1 LHD2 MHD	HHD L	UBUS S	SBUS							
	17.32849472 15.764626 8.096859	5.528806	4.682830913	7.232482739							
	Therefore:										
	Weighted Average MPG Factors										
	Gasoline: 26.3	C	Diesel:	10.2							
Step 3:	Therefore:										
	26 daily gallons of gasoli	ne	5 (daily gallons of d	iesel						
	or										
	9,552 annual gallons of gase	oline	1,651	annual gallons of	fdiesel						

On-road Mobile (Construction) Energy Usage - Demolition



On-road Mobile (Construction) Energy Usage - Site Preparation

Step 1: Total Daily Worker Trips (provided by CalEEMod) 18 Worker Trip Length (miles) (provided by CalEEMod) 10.8 Therefore: Average Worker Daily VMT: 194 Step 2: Given: Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.2) LDA LDT1 LDT2 0.3333333 0.3333333 0.3333333 And: Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020 LDA LDT1 LDT2 29.930095 24.879991 22.223868 Therefore: Weighted Average Worker MPG Factor 25.7 Step 3: Therefore: 7.6 Worker daily gallons of gasoline 5 # of Days (see CalEEMod) Step 4: Therefore: **38** Total gallons of gasoline **Result:**

On-road Mobile (Construction) Energy Usage - Grading

Step 1: Total Daily Worker Trips (provided by CalEEMod)
15

Worker Trip Length (miles) (provided by CalEEMod)
10.8

Therefore: Average Worker Daily VMT: 162

Step 2: Given: Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.2) LDA LDT1 LDT2 0.3333333 0.3333333 0.3333333

> And: Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020 LDA LDT1 LDT2 29.930095 24.879991 22.223868

Therefore: Weighted Average Worker MPG Factor 25.7

Therefore: 6.3 Worker daily gallons of gasoline

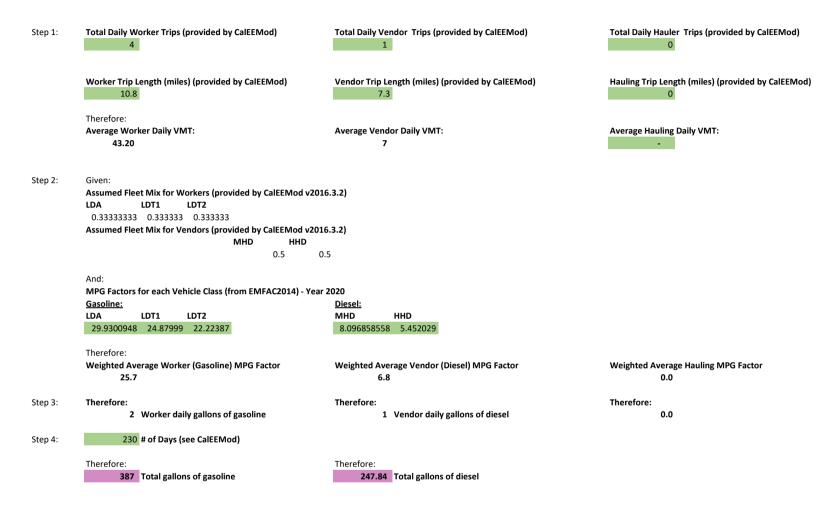
Step 4: 8 # of Days (see CalEEMod)

Therefore:

Step 3:

Result: 50 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Building Construction



On-road Mobile (Construction) Energy Usage - Paving

Step 1: Total Daily Worker Trips (provided by CalEEMod)
20

Worker Trip Length (miles) (provided by CalEEMod)
10.8

Therefore: Average Worker Daily VMT: 216

Step 2: Given: Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.2) LDA LDT1 LDT2 0.3333333 0.3333333 0.3333333

> And: Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020 LDA LDT1 LDT2 29.930095 24.879991 22.223868

Therefore: Weighted Average Worker MPG Factor 25.7

Therefore: 8.4 Worker daily gallons of gasoline

Step 4: 18 # of Days (see CalEEMod)

Therefore:

Step 3:

Result: 151 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1:	Total Daily Worker Trips (provided by CalEEMod)
	Worker Trip Length (miles) (provided by CalEEMod) 10.8
	Therefore: Average Worker Daily VMT: 11
Step 2:	Given: Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.2) LDA LDT1 LDT2 0.3333333 0.3333333 0.3333333
	And: Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020 LDA LDT1 LDT2 29.930095 24.879991 22.223868
	Therefore: Weighted Average Worker MPG Factor 25.7
Step 3:	Therefore: 0.4 Worker daily gallons of gasoline
Step 4:	18 # of Days (see CalEEMod)
Result:	Therefore: 8 Total gallons of gasoline

Appendix D

Air Quality and Greenhouse Gas Modeling

Brentwood Inez Subdivision - Contra Costa County, Annual

Brentwood Inez Subdivision

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	11.00	Dwelling Unit	4.08	19,800.00	35

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Co	mpany			
CO2 Intensity (Ib/MWhr)	641.35	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

CalEEMod Version: CalEEMod.2016.3.2

Page 2 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

Project Characteristics -

Land Use - Size of project site, 3.22 Persons per household

Construction Phase - No demolition phase: No existing structures on site, vacant site

Woodstoves - No fireplaces are proposed, only natural gas hearths

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	NumberGas	2.75	0.00
tblFireplaces	NumberNoFireplace	0.88	11.00
tblFireplaces	NumberWood	4.73	0.00
tblLandUse	LotAcreage	3.57	4.08
tblLandUse	Population	31.00	35.00

2.0 Emissions Summary

Page 3 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr											MT/yr				
2019	6.6000e- 003	0.0684	0.0339	6.0000e- 005	0.0273	3.5900e- 003	0.0309	0.0150	3.3000e- 003	0.0183	0.0000	5.3193	5.3193	1.6300e- 003	0.0000	5.3600
2020	0.3026	2.4789	2.1590	3.5100e- 003	0.0507	0.1419	0.1927	0.0251	0.1332	0.1584	0.0000	303.3730	303.3730	0.0744	0.0000	305.2323
2021	0.1100	0.0107	0.0129	2.0000e- 005	6.0000e- 005	6.6000e- 004	7.1000e- 004	1.0000e- 005	6.6000e- 004	6.7000e- 004	0.0000	1.8343	1.8343	1.2000e- 004	0.0000	1.8374
Maximum	0.3026	2.4789	2.1590	3.5100e- 003	0.0507	0.1419	0.1927	0.0251	0.1332	0.1584	0.0000	303.3730	303.3730	0.0744	0.0000	305.2323

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year		tons/yr										MT/yr				
2019	6.6000e- 003	0.0684	0.0339	6.0000e- 005	0.0124	3.5900e- 003	0.0160	6.7600e- 003	3.3000e- 003	0.0101	0.0000	5.3193	5.3193	1.6300e- 003	0.0000	5.3600
2020	0.3026	2.4789	2.1590	3.5100e- 003	0.0264	0.1419	0.1683	0.0123	0.1332	0.1455	0.0000	303.3727	303.3727	0.0744	0.0000	305.2320
2021	0.1100	0.0107	0.0129	2.0000e- 005	6.0000e- 005	6.6000e- 004	7.1000e- 004	1.0000e- 005	6.6000e- 004	6.7000e- 004	0.0000	1.8343	1.8343	1.2000e- 004	0.0000	1.8374
Maximum	0.3026	2.4789	2.1590	3.5100e- 003	0.0264	0.1419	0.1683	0.0123	0.1332	0.1455	0.0000	303.3727	303.3727	0.0744	0.0000	305.2320

Brentwood Inez Subdivision - Contra Costa County, Annual

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	50.25	0.00	17.50	52.52	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-27-2019	3-26-2020	0.7981	0.7981
2	3-27-2020	6-26-2020	0.7047	0.7047
3	6-27-2020	9-26-2020	0.7047	0.7047
4	9-27-2020	12-26-2020	0.6242	0.6242
5	12-27-2020	3-26-2021	0.1542	0.1542
		Highest	0.7981	0.7981

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton				МТ	ī/yr						
Area	0.0966	1.3700e- 003	0.1077	9.0000e- 005		4.6600e- 003	4.6600e- 003		4.6600e- 003	4.6600e- 003	0.5637	0.1334	0.6971	2.7600e- 003	0.0000	0.7662
Energy	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	42.9513	42.9513	1.5000e- 003	5.5000e- 004	43.1541
Mobile	0.0278	0.1261	0.3158	1.0500e- 003	0.0896	9.1000e- 004	0.0906	0.0241	8.5000e- 004	0.0249	0.0000	95.9828	95.9828	3.5800e- 003	0.0000	96.0723
Waste						0.0000	0.0000		0.0000	0.0000	2.9840	0.0000	2.9840	0.1764	0.0000	7.3927
Water						0.0000	0.0000		0.0000	0.0000	0.2274	1.5882	1.8156	0.0234	5.7000e- 004	2.5700
Total	0.1261	0.1422	0.4297	1.2300e- 003	0.0896	6.7600e- 003	0.0964	0.0241	6.7000e- 003	0.0308	3.7751	140.6557	144.4308	0.2076	1.1200e- 003	149.9552

Page 5 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

2.2 Overall Operational

Mitigated Operational

Percent Reduction	ROG 4.83		-		I	РМ10 Р	M10 T	otal P	M2.5 PI	naust PM2 M2.5 Tot 6.57 41.7	tal		-CO2 Total 19 22.		14 N2 93 10.	
Total	0.1200	0.1178	0.3243	8.0000e- 004	0.0585	2.2800e- 003	0.0607	0.0157	2.2400e- 003	0.0179	3.1659	109.4466	112.6125	0.1995	1.0000e- 003	117.8996
Water	,					0.0000	0.0000		0.0000	0.0000	0.1819	1.3345	1.5164	0.0187	4.5000e- 004	2.1202
Waste	n					0.0000	0.0000		0.0000	0.0000	2.9840	0.0000	2.9840	0.1764	0.0000	7.3927
Mobile	0.0246	0.1021	0.2362	7.1000e- 004	0.0585	6.4000e- 004	0.0591	0.0157	6.0000e- 004	0.0163	0.0000	65.0274	65.0274	2.7500e- 003	0.0000	65.0960
0,	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003	, , , , ,	1.1900e- 003	1.1900e- 003	0.0000	42.9513	42.9513	1.5000e- 003	5.5000e- 004	43.1541
Area	0.0938	9.4000e- 004	0.0819	0.0000		4.5000e- 004	4.5000e- 004		4.5000e- 004	4.5000e- 004	0.0000	0.1334	0.1334	1.3000e- 004	0.0000	0.1367
Category					ti	ons/yr							M	T/yr		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

3.0 Construction Detail

Construction Phase

Brentwood Inez Subdivision - Contra Costa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/27/2019	1/2/2020	5	5	
2	Grading	Grading	1/3/2020	1/14/2020	5	8	
3	Building Construction	Building Construction	1/15/2020	12/1/2020	5	230	
4	Paving	Paving	12/2/2020	12/25/2020	5	18	
5	Architectural Coating	Architectural Coating	12/26/2020	1/20/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 40,095; Residential Outdoor: 13,365; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Page 7 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Page 8 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												МТ	'/yr		
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e- 003	0.0684	0.0331	6.0000e- 005		3.5900e- 003	3.5900e- 003		3.3000e- 003	3.3000e- 003	0.0000	5.1253	5.1253	1.6200e- 003	0.0000	5.1658
Total	6.5000e- 003	0.0684	0.0331	6.0000e- 005	0.0271	3.5900e- 003	0.0307	0.0149	3.3000e- 003	0.0182	0.0000	5.1253	5.1253	1.6200e- 003	0.0000	5.1658

Page 9 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton			МТ	'/yr							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	7.0000e- 005	7.6000e- 004	0.0000	2.1000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1940	0.1940	1.0000e- 005	0.0000	0.1942
Total	1.0000e- 004	7.0000e- 005	7.6000e- 004	0.0000	2.1000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1940	0.1940	1.0000e- 005	0.0000	0.1942

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0122	0.0000	0.0122	6.7000e- 003	0.0000	6.7000e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e- 003	0.0684	0.0331	6.0000e- 005		3.5900e- 003	3.5900e- 003		3.3000e- 003	3.3000e- 003	0.0000	5.1253	5.1253	1.6200e- 003	0.0000	5.1658
Total	6.5000e- 003	0.0684	0.0331	6.0000e- 005	0.0122	3.5900e- 003	0.0158	6.7000e- 003	3.3000e- 003	0.0100	0.0000	5.1253	5.1253	1.6200e- 003	0.0000	5.1658

Page 10 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	7.0000e- 005	7.6000e- 004	0.0000	2.1000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1940	0.1940	1.0000e- 005	0.0000	0.1942
Total	1.0000e- 004	7.0000e- 005	7.6000e- 004	0.0000	2.1000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1940	0.1940	1.0000e- 005	0.0000	0.1942

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT	/yr		
r ugitivo Euot					0.0181	0.0000	0.0181	9.9300e- 003	0.0000	9.9300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	4.0800e- 003	0.0424	0.0215	4.0000e- 005		2.2000e- 003	2.2000e- 003		2.0200e- 003	2.0200e- 003	0.0000	3.3431	3.3431	1.0800e- 003	0.0000	3.3701
Total	4.0800e- 003	0.0424	0.0215	4.0000e- 005	0.0181	2.2000e- 003	0.0203	9.9300e- 003	2.0200e- 003	0.0120	0.0000	3.3431	3.3431	1.0800e- 003	0.0000	3.3701

Page 11 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e- 005	4.0000e- 005	4.5000e- 004	0.0000	1.4000e- 004	0.0000	1.4000e- 004	4.0000e- 005	0.0000	4.0000e- 005	0.0000	0.1252	0.1252	0.0000	0.0000	0.1253
Total	6.0000e- 005	4.0000e- 005	4.5000e- 004	0.0000	1.4000e- 004	0.0000	1.4000e- 004	4.0000e- 005	0.0000	4.0000e- 005	0.0000	0.1252	0.1252	0.0000	0.0000	0.1253

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					8.1300e- 003	0.0000	8.1300e- 003	4.4700e- 003	0.0000	4.4700e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0800e- 003	0.0424	0.0215	4.0000e- 005		2.2000e- 003	2.2000e- 003		2.0200e- 003	2.0200e- 003	0.0000	3.3431	3.3431	1.0800e- 003	0.0000	3.3701
Total	4.0800e- 003	0.0424	0.0215	4.0000e- 005	8.1300e- 003	2.2000e- 003	0.0103	4.4700e- 003	2.0200e- 003	6.4900e- 003	0.0000	3.3431	3.3431	1.0800e- 003	0.0000	3.3701

Page 12 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e- 005	4.0000e- 005	4.5000e- 004	0.0000	1.4000e- 004	0.0000	1.4000e- 004	4.0000e- 005	0.0000	4.0000e- 005	0.0000	0.1252	0.1252	0.0000	0.0000	0.1253
Total	6.0000e- 005	4.0000e- 005	4.5000e- 004	0.0000	1.4000e- 004	0.0000	1.4000e- 004	4.0000e- 005	0.0000	4.0000e- 005	0.0000	0.1252	0.1252	0.0000	0.0000	0.1253

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e- 003	0.1055	0.0642	1.2000e- 004		5.0900e- 003	5.0900e- 003		4.6900e- 003	4.6900e- 003	0.0000	10.4235	10.4235	3.3700e- 003	0.0000	10.5078
Total	9.7200e- 003	0.1055	0.0642	1.2000e- 004	0.0262	5.0900e- 003	0.0313	0.0135	4.6900e- 003	0.0182	0.0000	10.4235	10.4235	3.3700e- 003	0.0000	10.5078

Page 13 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e- 004	1.5000e- 004	1.5100e- 003	0.0000	4.8000e- 004	0.0000	4.8000e- 004	1.3000e- 004	0.0000	1.3000e- 004	0.0000	0.4175	0.4175	1.0000e- 005	0.0000	0.4177
Total	2.0000e- 004	1.5000e- 004	1.5100e- 003	0.0000	4.8000e- 004	0.0000	4.8000e- 004	1.3000e- 004	0.0000	1.3000e- 004	0.0000	0.4175	0.4175	1.0000e- 005	0.0000	0.4177

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0118	0.0000	0.0118	6.0600e- 003	0.0000	6.0600e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e- 003	0.1055	0.0642	1.2000e- 004		5.0900e- 003	5.0900e- 003		4.6900e- 003	4.6900e- 003	0.0000	10.4235	10.4235	3.3700e- 003	0.0000	10.5078
Total	9.7200e- 003	0.1055	0.0642	1.2000e- 004	0.0118	5.0900e- 003	0.0169	6.0600e- 003	4.6900e- 003	0.0108	0.0000	10.4235	10.4235	3.3700e- 003	0.0000	10.5078

Page 14 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e- 004	1.5000e- 004	1.5100e- 003	0.0000	4.8000e- 004	0.0000	4.8000e- 004	1.3000e- 004	0.0000	1.3000e- 004	0.0000	0.4175	0.4175	1.0000e- 005	0.0000	0.4177
Total	2.0000e- 004	1.5000e- 004	1.5100e- 003	0.0000	4.8000e- 004	0.0000	4.8000e- 004	1.3000e- 004	0.0000	1.3000e- 004	0.0000	0.4175	0.4175	1.0000e- 005	0.0000	0.4177

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
	0.2438	2.2064	1.9376	3.1000e- 003		0.1285	0.1285		0.1208	0.1208	0.0000	266.3515	266.3515	0.0650	0.0000	267.9760
Total	0.2438	2.2064	1.9376	3.1000e- 003		0.1285	0.1285		0.1208	0.1208	0.0000	266.3515	266.3515	0.0650	0.0000	267.9760

Page 15 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr						MT	/yr			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e- 004	0.0132	3.3900e- 003	3.0000e- 005	7.6000e- 004	7.0000e- 005	8.2000e- 004	2.2000e- 004	6.0000e- 005	2.8000e- 004	0.0000	2.9998	2.9998	1.5000e- 004	0.0000	3.0035
Worker	1.5400e- 003	1.1200e- 003	0.0116	4.0000e- 005	3.6500e- 003	2.0000e- 005	3.6700e- 003	9.7000e- 004	2.0000e- 005	9.9000e- 004	0.0000	3.2006	3.2006	8.0000e- 005	0.0000	3.2026
Total	2.0000e- 003	0.0143	0.0150	7.0000e- 005	4.4100e- 003	9.0000e- 005	4.4900e- 003	1.1900e- 003	8.0000e- 005	1.2700e- 003	0.0000	6.2004	6.2004	2.3000e- 004	0.0000	6.2061

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Off-Road	0.2438	2.2064	1.9376	3.1000e- 003		0.1285	0.1285	1 1 1	0.1208	0.1208	0.0000	266.3512	266.3512	0.0650	0.0000	267.9757
Total	0.2438	2.2064	1.9376	3.1000e- 003		0.1285	0.1285		0.1208	0.1208	0.0000	266.3512	266.3512	0.0650	0.0000	267.9757

Page 16 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e- 004	0.0132	3.3900e- 003	3.0000e- 005	7.6000e- 004	7.0000e- 005	8.2000e- 004	2.2000e- 004	6.0000e- 005	2.8000e- 004	0.0000	2.9998	2.9998	1.5000e- 004	0.0000	3.0035
Worker	1.5400e- 003	1.1200e- 003	0.0116	4.0000e- 005	3.6500e- 003	2.0000e- 005	3.6700e- 003	9.7000e- 004	2.0000e- 005	9.9000e- 004	0.0000	3.2006	3.2006	8.0000e- 005	0.0000	3.2026
Total	2.0000e- 003	0.0143	0.0150	7.0000e- 005	4.4100e- 003	9.0000e- 005	4.4900e- 003	1.1900e- 003	8.0000e- 005	1.2700e- 003	0.0000	6.2004	6.2004	2.3000e- 004	0.0000	6.2061

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.0107	0.1062	0.1105	1.7000e- 004		5.8600e- 003	5.8600e- 003		5.4000e- 003	5.4000e- 003	0.0000	14.7348	14.7348	4.6300e- 003	0.0000	14.8506
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0107	0.1062	0.1105	1.7000e- 004		5.8600e- 003	5.8600e- 003		5.4000e- 003	5.4000e- 003	0.0000	14.7348	14.7348	4.6300e- 003	0.0000	14.8506

Page 17 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e- 004	4.4000e- 004	4.5200e- 003	1.0000e- 005	1.4300e- 003	1.0000e- 005	1.4400e- 003	3.8000e- 004	1.0000e- 005	3.9000e- 004	0.0000	1.2524	1.2524	3.0000e- 005	0.0000	1.2532
Total	6.0000e- 004	4.4000e- 004	4.5200e- 003	1.0000e- 005	1.4300e- 003	1.0000e- 005	1.4400e- 003	3.8000e- 004	1.0000e- 005	3.9000e- 004	0.0000	1.2524	1.2524	3.0000e- 005	0.0000	1.2532

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	ſ/yr		
Off-Road	0.0107	0.1062	0.1105	1.7000e- 004		5.8600e- 003	5.8600e- 003		5.4000e- 003	5.4000e- 003	0.0000	14.7348	14.7348	4.6300e- 003	0.0000	14.8506
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0107	0.1062	0.1105	1.7000e- 004		5.8600e- 003	5.8600e- 003		5.4000e- 003	5.4000e- 003	0.0000	14.7348	14.7348	4.6300e- 003	0.0000	14.8506

Page 18 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e- 004	4.4000e- 004	4.5200e- 003	1.0000e- 005	1.4300e- 003	1.0000e- 005	1.4400e- 003	3.8000e- 004	1.0000e- 005	3.9000e- 004	0.0000	1.2524	1.2524	3.0000e- 005	0.0000	1.2532
Total	6.0000e- 004	4.4000e- 004	4.5200e- 003	1.0000e- 005	1.4300e- 003	1.0000e- 005	1.4400e- 003	3.8000e- 004	1.0000e- 005	3.9000e- 004	0.0000	1.2524	1.2524	3.0000e- 005	0.0000	1.2532

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.0310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e- 004	3.3700e- 003	3.6600e- 003	1.0000e- 005		2.2000e- 004	2.2000e- 004		2.2000e- 004	2.2000e- 004	0.0000	0.5107	0.5107	4.0000e- 005	0.0000	0.5116
Total	0.0315	3.3700e- 003	3.6600e- 003	1.0000e- 005		2.2000e- 004	2.2000e- 004		2.2000e- 004	2.2000e- 004	0.0000	0.5107	0.5107	4.0000e- 005	0.0000	0.5116

Page 19 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1 .	1.0000e- 005	0.0000	5.0000e- 005	0.0000	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0139	0.0139	0.0000	0.0000	0.0139
Total	1.0000e- 005	0.0000	5.0000e- 005	0.0000	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0139	0.0139	0.0000	0.0000	0.0139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.0310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e- 004	3.3700e- 003	3.6600e- 003	1.0000e- 005		2.2000e- 004	2.2000e- 004		2.2000e- 004	2.2000e- 004	0.0000	0.5107	0.5107	4.0000e- 005	0.0000	0.5116
Total	0.0315	3.3700e- 003	3.6600e- 003	1.0000e- 005		2.2000e- 004	2.2000e- 004		2.2000e- 004	2.2000e- 004	0.0000	0.5107	0.5107	4.0000e- 005	0.0000	0.5116

Page 20 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 005	0.0000	5.0000e- 005	0.0000	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0139	0.0139	0.0000	0.0000	0.0139
Total	1.0000e- 005	0.0000	5.0000e- 005	0.0000	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0139	0.0139	0.0000	0.0000	0.0139

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
U U	0.1084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	1.5300e- 003	0.0107	0.0127	2.0000e- 005		6.6000e- 004	6.6000e- 004		6.6000e- 004	6.6000e- 004	0.0000	1.7873	1.7873	1.2000e- 004	0.0000	1.7903
Total	0.1099	0.0107	0.0127	2.0000e- 005		6.6000e- 004	6.6000e- 004		6.6000e- 004	6.6000e- 004	0.0000	1.7873	1.7873	1.2000e- 004	0.0000	1.7903

Page 21 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e- 005	2.0000e- 005	1.6000e- 004	0.0000	6.0000e- 005	0.0000	6.0000e- 005	1.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0470	0.0470	0.0000	0.0000	0.0470
Total	2.0000e- 005	2.0000e- 005	1.6000e- 004	0.0000	6.0000e- 005	0.0000	6.0000e- 005	1.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0470	0.0470	0.0000	0.0000	0.0470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	∵/yr		
Archit. Coating	0.1084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e- 003	0.0107	0.0127	2.0000e- 005		6.6000e- 004	6.6000e- 004		6.6000e- 004	6.6000e- 004	0.0000	1.7873	1.7873	1.2000e- 004	0.0000	1.7903
Total	0.1099	0.0107	0.0127	2.0000e- 005		6.6000e- 004	6.6000e- 004		6.6000e- 004	6.6000e- 004	0.0000	1.7873	1.7873	1.2000e- 004	0.0000	1.7903

Page 22 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e- 005	2.0000e- 005	1.6000e- 004	0.0000	6.0000e- 005	0.0000	6.0000e- 005	1.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0470	0.0470	0.0000	0.0000	0.0470
Total	2.0000e- 005	2.0000e- 005	1.6000e- 004	0.0000	6.0000e- 005	0.0000	6.0000e- 005	1.0000e- 005	0.0000	2.0000e- 005	0.0000	0.0470	0.0470	0.0000	0.0000	0.0470

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Page 23 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.0246	0.1021	0.2362	7.1000e- 004	0.0585	6.4000e- 004	0.0591	0.0157	6.0000e- 004	0.0163	0.0000	65.0274	65.0274	2.7500e- 003	0.0000	65.0960
Unmitigated	0.0278	0.1261	0.3158	1.0500e- 003	0.0896	9.1000e- 004	0.0906	0.0241	8.5000e- 004	0.0249	0.0000	95.9828	95.9828	3.5800e- 003	0.0000	96.0723

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	104.72	109.01	94.82	240,011	156,542
Total	104.72	109.01	94.82	240,011	156,542

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

Page 24 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category											МТ	/yr				
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25.8900	25.8900	1.1700e- 003	2.4000e- 004	25.9915
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25.8900	25.8900	1.1700e- 003	2.4000e- 004	25.9915
NaturalGas Mitigated	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627
NaturalGas Unmitigated	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Single Family Housing	319716	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627
Total		1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627

Page 25 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Single Family Housing	319716	1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627
Total		1.7200e- 003	0.0147	6.2700e- 003	9.0000e- 005		1.1900e- 003	1.1900e- 003		1.1900e- 003	1.1900e- 003	0.0000	17.0613	17.0613	3.3000e- 004	3.1000e- 004	17.1627

5.3 Energy by Land Use - Electricity

<u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		ΜT	/yr	
Single Family Housing	88996.3	25.8900	1.1700e- 003	2.4000e- 004	25.9915
Total		25.8900	1.1700e- 003	2.4000e- 004	25.9915

CalEEMod Version: CalEEMod.2016.3.2

Page 26 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	/yr	
Single Family Housing	88996.3	25.8900	1.1700e- 003	2.4000e- 004	25.9915
Total		25.8900	1.1700e- 003	2.4000e- 004	25.9915

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Page 27 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.0938	9.4000e- 004	0.0819	0.0000		4.5000e- 004	4.5000e- 004		4.5000e- 004	4.5000e- 004	0.0000	0.1334	0.1334	1.3000e- 004	0.0000	0.1367
Unmitigated	0.0966	1.3700e- 003	0.1077	9.0000e- 005		4.6600e- 003	4.6600e- 003		4.6600e- 003	4.6600e- 003	0.5637	0.1334	0.6971	2.7600e- 003	0.0000	0.7662

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	/yr		
Architectural Coating	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.8400e- 003	4.2000e- 004	0.0258	8.0000e- 005		4.2100e- 003	4.2100e- 003		4.2100e- 003	4.2100e- 003	0.5637	0.0000	0.5637	2.6400e- 003	0.0000	0.6296
Landscaping	2.4800e- 003	9.4000e- 004	0.0819	0.0000		4.5000e- 004	4.5000e- 004		4.5000e- 004	4.5000e- 004	0.0000	0.1334	0.1334	1.3000e- 004	0.0000	0.1367
Total	0.0966	1.3600e- 003	0.1077	8.0000e- 005		4.6600e- 003	4.6600e- 003		4.6600e- 003	4.6600e- 003	0.5637	0.1334	0.6971	2.7700e- 003	0.0000	0.7662

Page 28 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory												МТ	/yr			
Architectural Coating	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	1 1 1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4800e- 003	9.4000e- 004	0.0819	0.0000		4.5000e- 004	4.5000e- 004		4.5000e- 004	4.5000e- 004	0.0000	0.1334	0.1334	1.3000e- 004	0.0000	0.1367
Total	0.0938	9.4000e- 004	0.0819	0.0000		4.5000e- 004	4.5000e- 004		4.5000e- 004	4.5000e- 004	0.0000	0.1334	0.1334	1.3000e- 004	0.0000	0.1367

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Page 29 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category		MT	Г/yr	
initigated	1.5164	0.0187	4.5000e- 004	2.1202
Grinnigatou	1.8156	0.0234	5.7000e- 004	2.5700

7.2 Water by Land Use

<u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	√yr	
Single Family Housing	0.716694 / 0.451829		0.0234	5.7000e- 004	2.5700
Total		1.8156	0.0234	5.7000e- 004	2.5700

CalEEMod Version: CalEEMod.2016.3.2

Page 30 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	/yr	
Single Family Housing	0.573355 / 0.424267	1.5164	0.0187	4.5000e- 004	2.1202
Total		1.5164	0.0187	4.5000e- 004	2.1202

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
		МТ	/yr	
initigated	2.9840	0.1764	0.0000	7.3927
Unmitigated	2.9840	0.1764	0.0000	7.3927

CalEEMod Version: CalEEMod.2016.3.2

Page 31 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

8.2 Waste by Land Use

<u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
Single Family Housing	14.7	2.9840	0.1764	0.0000	7.3927
Total		2.9840	0.1764	0.0000	7.3927

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	7/yr	
Single Family Housing	14.7	2.9840	0.1764	0.0000	7.3927
Total		2.9840	0.1764	0.0000	7.3927

9.0 Operational Offroad

Page 32 of 32

Brentwood Inez Subdivision - Contra Costa County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix E

Phase 1 Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Lone Tree Way Project Gann St. & Lone Tree Way Brentwood, California



August 2019

TRC Project No: 338571.1000.0000

Prepared For: Cyrus Land Investments, LLC 4021 Port Chicago Highway Concord, CA, 94520 Phone (925)688-2479

Glenn S. Young, PG, LEED AP Senior Project Manager TRC Environmental Professional



Prepared By: TRC 2300 Clayton Road, Suite 610 Concord, CA, 94520 Phone: (925) 688-1200

Emery Anderson-Merritt Staff Geologist



TABLE OF CONTENTS

Ροσο	No
Page	INO.

EXEC	UTIV	E SUMMARY1
1.0	INTR	ODUCTION
	1.1 1.2 1.3	PURPOSE AND SCOPE OF SERVICES
2.0	SITE	DESCRIPTION
	2.12.22.32.4	SITE LOCATION AND LEGAL DESCRIPTION.4SITE IMPROVEMENTS4CURRENT AND HISTORICAL SITE USE52.3.1Current Site Use(s)552.3.2Previous Owner and Operator Information55PHYSICAL SETTING5
3.0	USER	R PROVIDED INFORMATION
	 3.1 3.2 3.3 3.4 3.5 	TITLE & JUDICIAL RECORDS FOR ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS
4.0	RECO	DRDS REVIEW
	4.1 4.2	HISTORICAL USE INFORMATION74.1.1 Site History74.1.2 Adjoining Property History84.1.3 Surrounding Property History8DATABASE REPORT & ENVIRONMENTAL RECORD REVIEW94.2.1 Subject Site94.2.2 Adjoining & Surrounding Property Record Review104.2.2.1 Adjoining Properties10
	4.3 4.4	4.2.2.2Surrounding Properties11PREVIOUS REPORTS17OTHER ENVIRONMENTAL RECORD SOURCES174.4.1Contra Costa County Hazardous Materials Department174.4.2Contra Costa County Environmental Health Department174.4.3Contra Costa County Department of Conservation and Development184.4.4Regional Water Quality Control Board (RWQCB)184.4.5Department of Toxic Substances Control (DTSC)184.4.6California Department of Conservation – Division of Oil, Gas, and
5.0	SITE	Geothermal Resources (DOGGR)
5.0	5.1	METHODOLOGY AND LIMITING CONDITIONS



	5.2	INTERIOR AN	D EXTERIOR SITE OBSERVATIONS	19
		5.2.1 Haza	urdous Substances	
		5.2.2 Unde	erground Storage Tanks	
		5.2.3 Abov	peground Storage Tanks	
	5.3	ADJOINING A	AND SURROUNDING PROPERTIES RECONNAISSANCE	20
		5.3.1 Adjo	ining Properties	
		5.3.2 Surre	ounding Properties	20
	5.4	SOIL INVEST	IGATION	20
		5.4.1 Samp	oling Activities	20
		5.4.2 Chem	nical Testing Program	21
		5.4.3 Find	ings	21
6.0	INTE	RVIEWS		
7.0			IONS AND CONCLUSIONS	
		INGS, OPIN	IONS AND CONCLUSIONS	22
	FIND	INGS, OPIN RECs and C	IONS AND CONCLUSIONS	22
	FIND 7.1	INGS, OPIN RECs and C HRECs	IONS AND CONCLUSIONS	22 22 23
	FIND 7.1 7.2	INGS, OPIN RECS AND C HRECS De Minimis	IONS AND CONCLUSIONS	
	FIND 7.1 7.2 7.3	INGS, OPIN RECs and C HRECs <i>De Minimis</i> Data Gaps.	IONS AND CONCLUSIONS CRECs Conditions	
	FIND 7.1 7.2 7.3 7.4	INGS, OPIN RECS AND C HRECS DE MINIMIS DATA GAPS. LIMITING CC	IONS AND CONCLUSIONS CRECS Conditions DNDITIONS AND DEVIATIONS	
	FIND 7.1 7.2 7.3 7.4	INGS, OPIN RECS AND C HRECS DE MINIMIS DATA GAPS. LIMITING CC 7.5.1 Accu	IONS AND CONCLUSIONS CRECS CONDITIONS DNDITIONS AND DEVIATIONS racy and Completeness	22 23 23 23 23 23 23 23 23
	FIND 7.1 7.2 7.3 7.4	INGS, OPIN RECS AND C HRECS DE MINIMIS DATA GAPS. LIMITING CC 7.5.1 Accu 7.5.2 Warr	IONS AND CONCLUSIONS CRECS CONDITIONS DNDITIONS AND DEVIATIONS racy and Completeness ranties and Representations	22 23 23 23 23 23 23 23 23 24
	FIND 7.1 7.2 7.3 7.4	INGS, OPIN RECS AND C HRECS DE MINIMIS DATA GAPS. LIMITING CC 7.5.1 Accu 7.5.2 Warr 7.5.3 Cont	IONS AND CONCLUSIONS CRECS CONDITIONS DNDITIONS AND DEVIATIONS racy and Completeness	22 23 23 23 23 23 23 23 23 24 24 25

Tables

Table 2.1 - Site Improvements	5
Table 2.2 - Previous Owner and Operator Information	
Table 4.1 - Site History	
Table 4.2 - Historical Hazardous Substance Use	8
Table 4.3 - Adjoining Property History	8
Table 4.4 - Surrounding Property History	8
Table 5.1 - Interior and Exterior Site Observations	
Table 8.1 - References Information	25

Figures

Figure 1:	Vicinity Map
D ' O	0'4 DI

- Figure 2: Site Plan
- Figure 3: Locations of Soil Samples

Appendices

- Appendix A: Database Radius Report
- Appendix B: User Questionnaire(s)
- Appendix C: Historical Research Documentation
- Appendix D: Photograph Log
- Appendix E: Other Reference Information



- Appendix F: Laboratory Analytical Reports
- Appendix G: UCL Statistics for Lead Results
- Appendix H: TRC Staff and Environmental Professional Qualifications/Resumes
- Appendix I: Environmental Professional Statement



EXECUTIVE SUMMARY

Subject to the qualifications and limitations stated in Section 1 of this report, TRC Solutions Inc. (TRC) was retained by Cyrus Land Investments, LLC (also known as "Client" or "User") to perform a Phase I Environmental Site Assessment (ESA) of the Lone Tree Way Project located at Gann St. and Lone Tree Way in Brentwood, Contra Costa County, California (herein referred to as the "Site"). TRC's assessment was conducted in support of Client's due diligence associated with the potential purchase of the Site. The Phase I ESA described in this report was performed in accordance with the scope and limitations of the American Society of Testing and Materials Practice E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). TRC also included limited soil sampling as part of this assessment. Limiting conditions and/or deviations from the ASTM E 1527-13 standard are described in Sections 1.3 and 7.5 of this report.

The Site comprises approximately 1.1 acres of undeveloped land located along Lone Tree Way near Gann Street in Brentwood, California. The Site is described by the Contra Costa County tax assessor as Assessor's Parcel Number (APN) 018-080-025.

As a result of the Phase I ESA, including but not limited to our visual observation of the Site; review of historical information, environmental databases, and information provided by the User; interviews with current Site representative(s); limited soil sampling; and TRC's professional judgment, no evidence of *recognized environmental conditions* (RECs) or *controlled recognized environmental conditions* (RECs) associated with the Site, as defined by the ASTM E 1527-13 standard were identified, with the exception of the following:

<u>REC No. 1</u>

File review and discussion with the DTSC indicates that lead concentrations ranging from 37 to 410 mg/kg are present in soil at the adjacent property to the east (aka Skipolini property).

To evaluate potential lead impacts, soil samples were collected across the Site. Results of analyses detected no organchlorine pesticides exceeding respective residential Environmental Screening Levels (ESLs) established by the Regional Water Quality Control Board (RWQCB) in any of the three surface soil samples tested. Detected arsenic concentrations ranged form 7.1 to 9.1 mg/kg in the three samples tested, which is consistent with background values for the Bay Area. Analyses detected total lead concentrations ranging from 8.7 to 150 mg/kg in sixteen (16) surface and near-surface soil samples with only three (3) surface soil samples exceeding the residential ESL of 80 mg/kg for lead. Using the EPA's ProUCL software, the calculated 95 percent Upper Confidence Level (UCL) for lead in the thirteen (13) surface soil at the Site 78.76 mg/kg, which is less than the residential ESL of 80 mg/kg. Accordingly, TRC recommends no additional soil investigation at this time.

This Executive Summary is part of this complete report; any findings, opinions or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for all supporting information related to findings, opinions and conclusions.



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1.0 INTRODUCTION

TRC Solutions Inc. (TRC) has prepared this Phase I Environmental Site Assessment (ESA) for Cyrus Land Investments, LLC (hereinafter "Client" or "User").

This report was prepared for and may be relied upon by Client for the purposes set forth herein; it may not be relied on by any party other than the Client and reliance may not be assigned without the express approval of TRC. Authorization for third party reliance on this report will be considered by TRC if requested by the Client. TRC reserves the right to deny reliance on this report by third parties.

1.1 Purpose and Scope of Services

The following Phase I ESA was performed for the property located along Lone Tree Way near Gann Street in Brentwood, Contra Costa County, California (hereinafter the "Site"). A Site location map is included as **Figure 1**. This Phase I ESA has been prepared by TRC in accordance with the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) and is intended for the sole use of Cyrus Land Investments, LLC.

The purpose of this assessment is to identify *Recognized Environmental Conditions* (RECs) at the Site, as defined by the ASTM E 1527-13 standard. Additionally, TRC completed surface and near-surface soil sampling to evaluate soil conditions as part of due diligence activities. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the User to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting *all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice* as defined by 42 U.S.C. §9601(35)(B) of CERCLA.

TRC understands that this assessment is not funded with a federal grant awarded under the United States Environmental Protection Agency (U.S. EPA) Brownfields Assessment and Characterization program.

The Scope of Services for this Phase I ESA included the following tasks:

- Site and vicinity reconnaissance;
- Site and vicinity description and physical setting;
- Historical source review and description of historical Site conditions;
- Interviews with owners, operators, and/or occupants of the Site, and/or local officials;
- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if provided or authorized to obtain by the User;
- Soil sampling in areas of potential environmental concern; and



• Preparation of a report summarizing findings, soil analytical results, opinions and conclusions.

Pursuant to the ASTM E 1527-13 standard, recommendations to conduct Phase II sampling or other assessment activities are not required to be included in this report. TRC can provide such recommendations upon request.

1.2 Additional Services

Items outside the scope of the ASTM E 1527-13 standard include, but are not limited to, the following:

- Asbestos-containing building materials
- Radon
- Lead-based paint
- Lead in drinking water
- Wetlands
- Regulatory compliance
- Cultural and historic resources
- 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
- Mold

TRC's assessment of soil conditions was performed in areas of potential environmental concern. This service was performed in addition to the scope of the ASTM E 1527-13 standard.

1.3 Deviations to ASTM E 1527-13 Standard

Notwithstanding additions to the ASTM E 1527-13 standard, as listed in Sections 1.2 and 9, if applicable, no significant deviations or deletions to the ASTM standard were made during this Phase I ESA.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The Site comprises approximately 1.1 acres of land located along Lone Tree Way, west of Gann Street in a mixed uses area that includes residential neighborhoods, fallow agricultural land, and a retail plant nursery. The Site is described by the Contra Costa County tax assessor as Assessor's Parcel Number (APN) 018-080-025 and is currently owned by Cyrus Land Investments, LLC. A Vicinity Map is included as **Figure 1**.

2.2 Site Improvements

Current on-site improvements are listed in the following table. A Site Plan is included as **Figure 2**.



Site Feature	Description
Buildings (stories)	There are no buildings currently located on the site.
Construction date(s)	N/A
Exterior areas	Undeveloped land.
On-site roads/rail lines	N/A
Other large equipment	N/A
Potable water supply	N/A
Sewage disposal system(s)	N/A
Heating/Cooling system fuel source(s)	N/A
Back-up fuel source(s)	N/A
Electricity supplier(s)	N/A
Storm water system	Municipal storm water sewer system

Table 2.1	- Site	Improvements
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2.3 Current and Historical Site Use

2.3.1 Current Site Use(s)

The Site is currently undeveloped land.

2.3.2 Previous Owner and Operator Information

Based on information provided by the User (Section 3), the historical record review (Section 4), and/or interviews conducted during this Phase I (Section 6), historical Site ownership and operator information is provided in the tables below.

Site Owner	From	То
Rita M. Giannini	Unknown	May 5, 2019
Cyrus Land Investments, LLC	May 6, 2019	Present

2.4 Physical Setting

According to the United States Geological Survey (USGS) topographic map, Brentwood, California quadrangle dated 2012 (**Appendix A**), the Site is relatively flat, at an elevation of approximately 90 feet above mean sea level (MSL), and local topography slopes gently to the northeast. A subsurface investigation would be required to determine actual ground water flow direction.

The database radius report supplied by Environmental Data Resources, Inc. (EDR) was reviewed to obtain information regarding the dominant soil composition in the Site vicinity. The major soil unit is Capay clay. Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in **Appendix A** for further information regarding the soil composition in



the Site vicinity. According to EDR, the Site is not located in a Federal Emergency Management Agency (FEMA) flood zone.

3.0 USER PROVIDED INFORMATION

According to the ASTM E 1527-13 standard, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User. These tasks include: providing, or authorizing the *environmental professional* to obtain, recorded land title records for environmental liens or activity and land use limitations (AULs); providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); providing commonly known or *reasonably ascertainable* information within the local community about the *property* that is material to RECs in connection with the *property*; and informing the *environmental professional* if, as believed by the User, the purchase price of the *property* is lower than the fair market value due to contamination. Information provided by the User pursuant to that request is listed in Section 8.0. A copy of the User questionnaire is included in **Appendix B**.

3.1 Title & Judicial Records for Environmental Liens or Activity and Use Limitations

In addition to reviewing the EDR report (discussed in Section 4.2), state and local municipal records (Section 4.4) and Regional Water Quality Control Board's (RWQCB) GeoTracker and Department of Toxic Substances Control's (DTSC) EnviroStor online websites (Section 4.4) were also reviewed. No evidence of environmental liens or activity use limitations (AULs) associated with the site was identified.

3.2 Specialized Knowledge

The User was not aware of specialized knowledge related to RECs at the Site.

3.3 Property Value Reduction Issues

The User was not aware of property valuation reduction issues regarding the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

TRC was supplied with commonly known and/or reasonably ascertainable information regarding a property adjacent to the Site by the User. This information was used during this Phase I ESA and has been incorporated in this report as applicable; documents related to this information can be found in **Appendix E**.

3.5 Reason for Conducting Phase I

It is TRC's understanding that the User requires a Phase I for due diligence purposes.



4.0 RECORDS REVIEW

4.1 Historical Use Information

Information regarding Site and vicinity historical uses was obtained from various publicly available and practically reviewable sources including:

- Aerial photographs (scale: 1" = 500') dated 1939, 1949, 1959, 1963, 1966, 1972, 1979, 1982, 1984, 1993, 1998, 2006, 2009, 2012, and 2016;
- Topographic maps dated 1914, 1916, 1940, 1943, 1954, 1968, 1978, and 2012.
- City directories dated 1992, 1995, 2000, 2005, 2010, and 2014;
- Local municipal records;
- An environmental database report; and
- Interviews with Site representative(s) and regulatory agency official(s), as necessary.

Historical research documentation is included in **Appendix C**.

Historical Sanborn® Fire Insurance Maps (Sanborn Maps) were originally produced for assessing fire insurance liability in urban areas in the United States. The maps provide detailed information (i.e., building construction, facility occupants, storage tank locations, and hazardous material storage areas), which can be used as a resource to document land use and structural change over time. Research concerning the availability of Sanborn Maps in the vicinity of the Site was conducted by EDR; however, EDR stated that Sanborn Map coverage does not exist for the Site or nearby surrounding area. The absence of maps for a specific area may signify the area was not significantly developed at the time at which the maps were published.

4.1.1 Site History

Operational History

Table 4.1 - Site History

Year	Site History
1914-present	The Site has been undeveloped since at least 1914.

It does not appear that topographic contours in the Site area have significantly changed during the time period reviewed.

Hazardous Substances

No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts were historically present at the Site. Current hazardous substances and petroleum products observed during the Site reconnaissance - including unidentified substance containers (when open or



damaged, and containing unidentified substances suspected of being hazardous or petroleum products) - are discussed in Section 5.2.

Table 4.2 - Historical Hazardous Substance Use

Μ	faterial Name	Approximate Former Quantity (gallons/lbs.)	Former Storage Containers
	N/A	N/A	N/A

4.1.2 Adjoining Property History

Table 4.3 - Adjoining Property History

Year	Adjoining Property History
North	Lone Tree Way has been present to the north of the Site since at least 1914, and appears as paved by 1966 but may have been paved prior to this date. Land to the north of the Site was used primarily for agricultural purposes from 1914-1998; a residence and several sheds are also visible north of Lone Tree Way in aerial photographs taken between 1949 and 1998. Between 1998 and 2006, the area to the north is developed as a residential neighborhood.
East	Land to the east of the Site has been used primarily for agricultural and residential purposes since 1939. A house is visible in aerial photographs from 1939-1998. Several small buildings (barns or cottages) are also visible in the 1949 aerial photograph, but were removed by 1959. A small orchard is present starting in 1966. By 2006, the lot to the east of the Site is largely vacant with a few remaining orchard trees.
South	Land to the south was used primarily for agriculture from 1939-1993. It is unknown what was grown on this land. Several barns and sheds are present in aerial photography from 1939-1959, but were removed by 1963. From 1939-1982, an irrigation ditch is present immediately to the south of the Site along the course of present-day Double K Road, but by 1984 is no longer present. A residence is also present to the southeast of the Site from 1972-2016.
West	Land to the west was undeveloped between 1914 and 1939. By 1949, a residence had been constructed to the west of the Site. This residence last appears in the 1998 aerial photograph. By 2006, the lot to the west is vacant.

4.1.3 Surrounding Property History

Table 4.4 - Surrounding Property History

Year	Surrounding Property History
North	The area to the north of the Site was used primarily for agriculture from 1939-1998, and had been developed as a residential neighborhood by 2006.
East	The area to the east of the Site was used primarily for agriculture from 1939-1998, and had been developed as a residential neighborhood by 2006.



Year	Surrounding Property History
West	From at least 1939-1998, the land to the west was used primarily for agricultural purposes. Railway tracks have been present to the west of the site since at least 1914. A plant nursery is visible to the west of the Site in aerial photography beginning in 1993. By 2006, a residential neighborhood and public storage warehouses are present, and development of several commercial properties is underway. By 2009, construction of these commercial facilites had been completed.
South	The area to the south of the Site was used primarily for agriculture from 1939-1998, and had been developed as a residential neighborhood by 2006.

Table 4.4 - Surrounding Property History

4.2 Database Report & Environmental Record Review

A database search report that identifies properties listed on state and federal databases within the ASTM-required radii of the Site was obtained from EDR and is included in **Appendix A**. The environmental database report identified 25 listings, including 15 that could be mapped and ten that could not (i.e., orphan properties). Eight of these orphan properties are listed as stormwater construction sites. Two orphan properties are former spill sites associated with the Brentwood Oil and Gas Field. Both of these properties are located near the intersection of Deer Valley Road and Lone Tree Way, more than two miles away from the target property. We also note that the Physical Setting Source Map in the EDR report listed one water well for the property located southeast of the Site.

The environmental database report identified no properties/listings for the Site, including unmapped sites.

4.2.1 Subject Site

Site information included in the database search report is summarized in the following table:

Site Facility Name(s) and/or Listed Address(es)	None listed
EDR Map No(s).	None listed
Database(s)	None listed
Description/ID No(s).	N/A
Database Review Summary	N/A



4.2.2 Adjoining & Surrounding Property Record Review

TRC evaluated the following factors to determine whether additional environmental records should be reviewed with respect to the potential for contaminant migration from the adjoining and surrounding properties:

- (1) Whether the property is up-gradient or down-gradient of the Site with regard to **groundwater migration**, based on the local topography, and the assumed groundwater depth and shallow groundwater flow direction;
- (2) Whether the property is up-gradient or down-gradient of the Site with regard to **vapor migration**, based on readily available information pursuant to the ASTM E 1527-13 standard, including soil and geological characteristics; contaminant characteristics; contaminated plume migration data; and significant conduits that might provide preferential pathways for vapor migration such as major utility corridors, sanitary sewers, and storm sewers vapor migration may also be influenced by the age and design of infrastructure features associated with these conduits);
- (3) Property case status (i.e., whether a spill, release, or violation has been reported by an environmental agency or applicable regulatory authority) or similar documentation;
- (4) Type of database and whether the presence of contamination is known; and
- (5) The distance between the listed property and the Site.

4.2.2.1 Adjoining Properties

Adjoining property information included in the database search report is summarized in the following table(s):

Facility Name(s) and/or Listed Address(es)	Skipolini Property 7281 Lone Tree Way, Brentwood, CA 94513
EDR Map No(s).	1
Database(s)	EnviroStor, VCP, HAZNET



Description/ID No(s)	EnviroStor: The Department of Toxic Substances Control's (DTSC's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Volunatry 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 inapproptriate land uses, and risk characterization information that is used to assess potential impacts to public health and the envirionment at contaminated sites. VCP: The VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs. HAZNET: The HAZNET database contains data extracted from the copies of hazardous waste manifests received each year by the DTSC. This database begins in the year 1993. This property is listed for disposal of asbestos waste, likely the result of asbestos abatement at onsite building(s).
Database Review Summary	The Skipolini Property is listed as a voluntary cleanup site for lead-contaminated soil.

4.2.2.2 <u>Surrounding Properties</u>

Surrounding property information included in the database search report is summarized in the following table(s):

Facility Name(s) and/or Address(es)	Tri City Auto Plaza Inc. 6935 Lone Tree Way, Brentwood, CA 94513
Approximate Location Relative to Site	0.247 miles west
EDR Map No(s).	A3, A6, A8, A9
Database(s)	CERS Haz Waste, CERS Tanks, CERS, UST, AST, EMI, Contra Costa County Site List, RCRA NonGen/NLR



Description/ID No(s).	 CERS Haz Waste: This database lists sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal that fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs. CERS tanks: This database contains a list of sites in the CalEPA Regulated Site Portal that fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. CERS: The CalEPA Regulate 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. UST: The UST database contains information about active underground storage tank (UST) facilities gathered from the local regulatory agencies. AST: The Aboveground Petroleum Storage Tank Facilities (AST) database lists aboveground petroleum storage tank locations. EMI: The Emissions Inventory Data (EMI) database contains toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies. Contra Costa County Site List: This list includes sites from the underground tank, hazardous waste generator, and business plan/2185 programs. RCRA NonGen/NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat, and/or dispose of hazardous waste.
Elevation relative to Site	Higher
Database Review Summary	Tri City Auto Plaza was found in violation of the California Health and Safety Code 6.7 25290.1(e) on May 4, 2017 by the Contra Costa Health Services Department for failing to maintain properly the interstitial space of a UST such that a breach in containment would be detected before the hazardous substance stored in the UST would be released into the environment. Tri City Auto Plaza returned to compliance on May 26, 2017. Several other previous violations were found related to business plans and documentation, but the facility has since returned to compliance.

Facility Name(s) and/or Address(es)	Proposed Fourth Middle School Site, 2340 Smith Rd, Brentwood, CA 94513
Approximate Location Relative to Site	0.459 miles east-southeast
EDR Map No(s).	B10, B11
Database(s)	EnviroStor, SCH, SWEEPS UST, CA FID UST, Contra Costa County Site List, CERS, US Brownfields, FINDS





Elevation relative to Site	Lower
Database Review Summary	This is a school cleanup site under investigation for soil potentially contaminated with arsenic, benzene, chlordate, DDD, DDE, DDT, lead, toxaphene, TPH-diesel, and TPH-gas. No other pertinent information was available. The presence of impacted soil at this Site may be related to historical agricultural activities at this property. This property is not considered to a REC with respect to the Target Property.

Facility Name(s) and/or Address(es)	La Paloma 6651 Lone Tree Way, Brentwood, CA 94513
Approximate Location Relative to Site	0.531 miles west
EDR Map No(s).	12
Database(s)	EnviroStor, SCH, CERS
Description/ID No(s).	EnviroStor: The Department of Toxic Substances Control's (DTSC's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Volunatry 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 inapproptriate land uses, and risk characterization information that is used to assess potential impacts to public health and the envirionment at contaminated sites. SCH: The School Property Evaluation Program lists 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. CERS: The CalEPA Regulate 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.
Elevation relative to Site	Higher
Database Review Summary	This site was investigated in 2004 due to suspected toxaphene-contaminated soil. No contaminants were found.

Facility Name(s) and/or Address(es)	Empire Acres LLC 2700 Empire Avenue, Brentwood, CA 94513
Approximate Location Relative to Site	0.694 miles west-northwest



EDR Map No(s).	13
Database(s)	EnviroStor, VCP, HAZNET, NPDES, CIWQS
Description/ID No(s).	EnviroStor: The Department of Toxic Substances Control's (DTSC's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Volunatry 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 inapproptriate land uses, and risk characterization information that is used to assess potential impacts to public health and the envirionment at contaminated sites. VCP: The VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs. HAZNET: The HAZNET database contains data extracted from the copies of hazardous waste manifests received each yeaer by the DTSC. This database begins in the year 1993. NPDES: NPDES (National Pollutant Discharge Elimination System) is a listing of NPDES permits, including groundwater. CIWQS: 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.
Elevation relative to Site	Higher
Database Review Summary	Soil sampling results showed that chlordane, hexachlor epoxide, toxaphene, and DDT exceeded unrestricted use screening levels. The contaminated soil was excavated and the site deemed suitable for unrestricted use, with no further action required as of 7/18/2018. Because the site contains no paved surfaces, drainage ditches, or surface water features, contamination is unlikely to have spread beyond the site.
Facility Name(s) and/or Address(es)	Empire Elementary School, Empire Avenue/Amber Lane, Brentwood, CA 94513
Approximate Location Relative to Site	0.821 miles west-southwest
EDR Map No(s).	14
Database(s)	EnviroStor, SCH



Description/ID No(s).	EnviroStor: The Department of Toxic Substances Control's (DTSC's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Volunatry 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 inapproptriate land uses, and risk characterization information that is used to assess potential impacts to public health and the envirionment at contaminated sites. SCH: The School Property Evaluation Program lists 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.
Elevation relative to Site	Higher
Database Review Summary	The site contained soil contaminated with toxaphene, DDT, and DDE. The contaminated soil was removed and all cleanup activities completed as of 6/21/2003.

Facility Name(s) and/or Address(es)	Miles-Fenell Property, 2200 Shady Willow Ln, 2301 & 2251 Empire Avenue, Brentwood, CA 94513
Approximate Location Relative to Site	0.887 miles west-southwest
EDR Map No(s).	15
Database(s)	EnviroStor, VCP
Description/ID No(s).	EnviroStor: The Department of Toxic Substances Control's (DTSC's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Volunatry 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 envirionment at contaminated sites. VCP: The VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.
Elevation relative to Site	Higher
Database Review Summary	Soil arsenic concentrations were evaluated at the site and found to be consistent with background concentrations for this area.



4.3 **Previous Reports**

The following geotechnical reports regarding a property adjacent to the Site on the eastern side were provided for TRC's review by Brian S. Kesler of Cyrus Land Investments, LLC:

- October 7, 2005, Geotechnical Investigation Ipsen Restaurant/Retail Center, Prepared by Romig Engineers, Inc.
- May 19, 2014, Geotechnical Report Update, Prepared by ENGEO Incorporated

The October 7, 2005 geotechnical investigation involved review of geotechnical and geologic literature related to the site, three exploratory borings, and laboratory testing of physical properties of soil samples to provide recommendations for construction of a restauraunt and retail space. The May 19, 2014 update revised the reccommendations to be suitable for a residential development according to more recent building codes. No chemical testing was completed as part of these investigations and no recognized environmental conditions were identified in either report.

4.4 Other Environmental Record Sources

Per the ASTM standard, local or additional state records were reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed earlier in this report. These additional records include:

- Contra Costa County Hazardous Materials Department
- Contra Costa County Environmental Health Department
- Contra Costa County Department of Conservation and Development
- Regional Water Quality Control Board
- Department of Toxic Substances Control
- California Department of Conservation Division of Oil, Gas, and Geothermal Resources

Relevant files from the records review are included in **Appendix E**.

4.4.1 Contra Costa County Hazardous Materials Department

The Contra Costa County Hazardous Materials Department was contacted by email and a records request form submitted on May 8, 2019 for files regarding the Site. The Department responded stating that they have no records pertaining to the Site.

4.4.2 Contra Costa County Environmental Health Department

The Contra Costa County Environmental Health Department was contacted by email and a records request form submitted on May 8, 2019 for files regarding the Site. The Department responded on May 15, 2019, and provided records of a soil boring application and permit. These documents are included in **Appendix E**.

4.4.3 Contra Costa County Department of Conservation and Development

The Contra Costa County Department of Conservation and Development's ePermit online Database was accessed on May 8, 2019 to review any files pertaining to the Site. No records were listed for the Site.

4.4.4 Regional Water Quality Control Board (RWQCB)

The RWQCB's GeoTracker online database was accessed on May 8, 2019 to review any files pertaining to the site and/or adjoining and surrounding properties. No cases were listed for the Site or for the adjoining and surrounding properties.

4.4.5 Department of Toxic Substances Control (DTSC)

The DTSC's EnviroStor online database was accessed on May 10, 2019 to review any files pertaining to the Site and/or adjacent and surrounding properties. No cases were listed for the Site, however the following case was listed for an adjacent property:

•Skipolini Property (Site no. 60002296): Located immediately east of the Site. In 2015, soil testing at the Skipolini property by Lafferty Communities revealed lead in soil, and Lafferty Communities entered a voluntary cleanup agreement with DTSC. Ownership of the Skipolini Property has since been transferred to Cyrus Land Investments, LLC, which has entered into a new voluntary cleanup agreement dated March 13, 2019. This site is considered active by the DTSC. Based on TRC's telephone interview of the DTSC's caseworker on May 15, 2019, we understand the detected lead concentrations range from 37 to 410 mg/kg and that the DTSC is working with the owner to prepare a Removal Action Workplan to remove elevated lead in soil.

4.4.6 California Department of Conservation – Division of Oil, Gas, and Geothermal Resources (DOGGR)

DOGGR's Well Search site was accessed on May 10, 2019 to review any files pertaining to the Site and/or adjoining and surrounding properties. No oil or gas wells were listed for the Site. Sixteen records were found for wells on surrounding properties; these records are retained in TRC's files.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Mr. Glenn Young, TRC Senior Project Manager, conducted a Site reconnaissance of accessible areas on and around the Site on April 30, 2019 for the purpose of identifying potential RECs. Photographs taken during the reconnaissance are provided in **Appendix D**. A Site Plan is included as **Figure 2**.



5.2 Interior and Exterior Site Observations

Unless otherwise noted, the items listed in the table below appeared in good condition with no visual evidence of staining, deterioration or a discharge of hazardous materials; and there are no records of a release in these areas. Items where further description is warranted are discussed in the section(s) following the table.

Item	Present (Current/ Historic/ No)	Description
Hazardous material storage or handling areas	No	(see Section 5.2.1)
Aboveground storage tanks (ASTs) and associated piping	No	
Underground storage tanks (USTs) and associated piping	No	
Drums & containers (≥5 gallons)	No	
Odors	No	
Pools of liquid, including surface water bodies and sumps (handling hazardous substances or substances likely to be hazardous only)	No	
Polychlorinated Biphenyls (PCBs) / Transformers	No	
Stains or corrosion	No	
Drains & sumps	No	
Pits, ponds & lagoons	No	
Stressed vegetation	No	
Historic fill or any other fill material	No	
Wastewater (including storm water or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the Site)	No	
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	No	A pump house was observed on the adjoining property to the southeast of the Site. This well is identified as USGS California Water Science Center monitoring location 001N002E02K001M in the EDR Well Report. The EDR report also indicated that 9 additional water wells and 16 oil and gas wells are present on surrounding properties. None of these wells were observed during Site reconnaissance. According to the California Department of Conservation – Division of Oil, Gas, and Geothermal Resources, these oil and gas wells have been plugged, inspected, and approved according to the requirements of the Division.
Septic systems or cesspools	No	



5.2.1 Hazardous Substances

No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts that are currently present at the Site; and no unidentified substance containers (when open or damaged, and containing unidentified substances suspected of being hazardous or petroleum products) were observed at the Site.

5.2.2 Underground Storage Tanks

TRC observed no visual evidence, including vent pipes, fill ports or dispensing equipment, of underground storage tanks (USTs) at the Site.

5.2.3 Aboveground Storage Tanks

TRC observed no aboveground storage tanks (ASTs) at the Site.

5.3 Adjoining and Surrounding Properties Reconnaissance

5.3.1 Adjoining Properties

During the Site reconnaissance, TRC viewed the adjoining properties from the Site and publicly accessible areas (e.g., public roadways, etc.). Lone Tree Way and a residential neighborhood are present to the north of the Site. A small pile of degraded asphalt debris is present between the northern border of the Site and Lone Tree Way. The lot to the west of the Site is currently vacant, but has evidence of a former building. A residence and a vacant lot are present to the south of the Site. A pump house was observed on this vacant lot. This well is identified as USGS California Water Science Center monitoring location 001N002E02K001M in the EDR Well Report. The lot to the east of the Site is undeveloped.

5.3.2 Surrounding Properties

To the north, south, and east of the Site, surrounding properties are generally residential. Land to the west is generally mixed residential and commercial, and also includes a plant nursery approximately 400 feet west of the Site. Railroad tracks are present approximately 800 feet west of the Site.

5.4 Soil Investigation

To evaluate the potential possible presence of lead, arsenic, and organochlorine pesticides at the Site, TRC completed a limited soil investigation at the Site. Soil sampling was conducted on May 29 and June 26, 2019. Sample locations are shown on **Figure 3**.

5.4.1 Sampling Activities

Sampling activities were conducted using standard industry practices regarding worker health and safety, sample collection and handling, and chain-of-custody documentation. Surface



samples were collected using a shovel, and samples from 2 feet below ground surface were collected using a hand auger. Upon completion, all holes were backfilled with excavated material to match existing grade. All samples were stored in an ice-chilled cooler pending delivery under chain-of-custody documentation to a State-certified chemical testing laboratory.

5.4.2 Chemical Testing Program

A total of 13 surface soil samples and 3 near-surface soil samples were submitted for chemical testing. Samples tested by McCampbell Analytical, a State of California-certified testing laboratory. Chemical testing included some or all of the following:

- Organochlorine Pesticides (8081) on three (3) surface samples;
- Arsenic (6020) on three (3) surface samples; and
- Lead (6020) on thirteen (13) surface and three (3) near-surface soil samples .

5.4.3 Findings

Results of analyses on soil samples collected during this investigation are summarized in **Table 1**. Copies of the laboratory reports with chain-of-custody documentation are presented in **Appendix F**. For the purposes of this report, results of analyses were compared to the Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential, commercial/industrial, and construction worker scenarios.

Results of analyses detected no organchlorine pesticides exceeding respective residential ESLs in any of the three surface soil samples. Detected arsenic concentrations in three surface samples ranged from 7.1 to 9.1 mg/kg, which is consistent with regional background arsenic concentrations. Analyses detected total lead concentrations ranging from 8.7 to 150 mg/kg in sixteen surface and near-surface soil samples with only three surface soil samples exceeding the residential ESL of 80 mg/kg for lead. Using the EPA's ProUCL software, the calculated 95 percent Upper Confidence Level (UCL) for lead in surface soil at the Site 78.76 mg/kg, which is less than the residential ESL of 80 mg/kg. The ProUCL output summary is presented in Appendix G).

6.0 INTERVIEWS

The following persons were interviewed to obtain historically and/or environmentally-pertinent information regarding RECs associated with the Site. Interview documentation is included in **Appendix B.**

• Brian S. Kesler, Cyrus Land Investments, LLC

The information provided by each is discussed and referenced in the text or provided below. Other references and sources of information are included in **Appendix E**.



7.0 FINDINGS, OPINIONS AND CONCLUSIONS

Potential findings can include RECs, historical RECs (HRECs), controlled RECs (CRECs) and *de minimis* conditions, pursuant to the ASTM E 1527-13 standard.

RECs are defined as the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*.

CRECs are defined 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*).

HRECs are defined 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*).

De minimis conditions are defined as a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not RECs nor CRECs.

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 at the property located at APN 018-080-025 on Lone Tree Way, Brentwood, Contra Costa County, California (Site), see **Appendices F and G**. Deviations from this standard are described in Sections 1.3 and 7.6 of this report.

7.1 **RECs and CRECs**

This assessment has revealed no evidence of RECs (including CRECs) in connection with the Site with the exception of the following:

<u>REC No. 1</u>

File review and discussion with the DTSC indicates that lead concentrations ranging from 37 to 410 mg/kg are present in soil at the adjacent property to the east (aka Skipolini property).

To evaluate potential lead impacts, soil samples were collected across the Site. Results of analyses detected no organchlorine pesticides exceeding respective residential Environmental



Screening Levels (ESLs) established by the Regional Water Quality Control Board (RWQCB) in any of the three surface soil samples tested. Detected arsenic concentrations ranged form 7.1 to 9.1 mg/kg in the three samples tested, which is consistent with background values for the Bay Area. Analyses detected total lead concentrations ranging from 8.7 to 150 mg/kg in sixteen (16) surface and near-surface soil samples with only three (3) surface soil samples exceeding the residential ESL of 80 mg/kg for lead. Using the EPA's ProUCL software, the calculated 95 percent Upper Confidence Level (UCL) for lead in the thirteen (13) surface soil at the Site 78.76 mg/kg, which is less than the residential ESL of 80 mg/kg. Accordingly, TRC recommends no additional soil investigation at this time.

7.2 HRECs

This assessment has revealed no evidence of HRECs in connection with the Site.

7.3 *De Minimis* Conditions

This assessment has revealed no evidence of *de minimis* conditions in connection with the Site.

7.4 Data Gaps

TRC has made an appropriate inquiry into the commonly known and reasonably ascertainable resources concerning the historical ownership and use of the Site back to the first development per 40 CFR Part 312.24 (*Reviews of Historical Sources of Information*). TRC identified no data gaps during this assessment.

7.5 Limiting Conditions and Deviations

7.5.1 Accuracy and Completeness

The ASTM E 1527-13 standard recognizes inherent limitations for Phase I ESAs that apply to this report, including:

- Uncertainty Not Eliminated No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Data gaps identified during this Phase I ESA are listed in Section 7.5.
- Not Exhaustive A Phase I ESA is not an exhaustive investigation.
- Past Uses of the Property A review of standard historical sources at intervals less than five years is not required.

The Client is advised that the Phase I ESA conducted at the Site is a <u>limited inquiry</u> into a property's environmental status, cannot wholly eliminate uncertainty, and is not an exhaustive assessment to discover every potential source of environmental liability at the Site. Therefore, TRC does not make a statement i) of warranty or guarantee, express or implied for any specific use; ii) that the Site is free of RECs or environmental impairment; iii) that the Site is "clean"; or



iv) that impairments, if any, are limited to those that were discovered while TRC was performing the Phase I ESA. This limiting statement is not meant to compromise the findings of this report; rather, it is meant as a statement of limitations within the ASTM standard and intended scope of this assessment. Specific limiting conditions identified during the Site reconnaissance are described in Section 5.1. Subsurface conditions may differ from the conditions implied by surface observations, and can be evaluated more thoroughly through intrusive techniques that are beyond the scope of this assessment. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes.

This report presents TRC's site reconnaissance observations, findings, and conclusions as they existed at the time of the Site reconnaissance. TRC makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. TRC makes no guarantees as to the accuracy or completeness of information obtained from others during the course of this Phase I ESA report. It is possible that information exists beyond the scope of this assessment, or that information was not provided to TRC. Additional information subsequently provided, discovered, or produced may alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon reasonably ascertainable information and observed Site conditions at the time of the assessment.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not assessed. Regardless of the findings stated in this report, TRC is not responsible for consequences or conditions arising from facts that were not fully disclosed to TRC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information regarding surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by TRC's observations or other credible referenced sources reviewed during the assessment.

TRC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

7.5.2 Warranties and Representations

This report does not warrant against: (1) operations or conditions which were not evident from visual observations or historical information provided; (2) conditions which could only be determined by additional physical sampling or other intrusive investigation techniques; (3) locations other than the client-provided addresses and/or legal parcel description; or (4) information regarding off-site location(s) (with possible impact to the Site) not published in publicly available records.



7.5.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with, and subject to, the limitations specified in the ASTM E 1527-13 standard, for a period of 180 days from completion, or until the Client obtains specific information that may materially alter a finding, opinion, or conclusion in this report, or until the Client is notified by TRC that it has obtained specific information that may materially alter a finding, opinion, or conclusion in this report. Additionally, pursuant to the ASTM E 1527-13 standard, this report is presumed valid if completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction.

7.5.4 Significant Assumptions

During this Phase I ESA, TRC relied on database information; interviews with Site representatives, regulatory officials, and other individuals having knowledge of Site operations; and information provided by the User as requested in our authorized Scope of Work. TRC has assumed that the information provided is true and accurate. Reliance on electronic database search reports is subject to the limitations set forth in those reports. TRC did not independently verify the information provided. TRC found no reason to question the validity of the information received unless explicitly noted elsewhere in this report. If other information is discovered and/or if previous reports exist that were not provided to TRC, our conclusions may not be valid.

8.0 REFERENCES

Description/Title of Document(s) Received or Agency Contacted	Date Information Request Filled/Date of Agency Contact	Reference Source
The EDR City Directory Report	April 25, 2019	Environmental Data Resources, Inc.
The EDR Aerial Photo Decade Package	April 25, 2019	Environmental Data Resources, Inc.
The EDR Radius Map TM Report with GeoCheck®	April 25, 2019	Environmental Data Resources, Inc.
Certified Sanborn® Map Report	April 25, 2019	Environmental Data Resources, Inc.
EDR Historical Topographic Map Report	April 25, 2019	Environmental Data Resources, Inc.
Contra Costa County Hazardous Materials Department	May 8, 2019	Records request response via email
Contra Costa County Environmental Health Department	May 8, 2019	Records request response via email
Contra Costa County Department of Conservation	May 8, 2019	Records request response via email

 Table 8.1 - References Information



Description/Title of Document(s) Received or Agency Contacted	Date Information Request Filled/Date of Agency Contact	Reference Source
and Development		
Regional Water Quality Control Board GeoTracker Database	May 8, 2019	Accessed via website at www.geotracker.waterboards.ca.gov
Department of Toxic Substances Control EnviroStor Database	May 10, 2019	Accessed via website at www.envirostor.dtsc.ca.gov
California Department of Conservation – Division of Oil, Gas, and Geothermal Resources	May 10, 2019	Accessed via website at www.conservation.ca.gov/dog/
Geotechnical Investigation – Ipsen Restaurant/Retail Center (Romig Engineers, Inc., October 7, 2005)	April 25, 2019	Provided by User
Geotechnical Report Update (ENGEO, May 19, 2014)	April 25, 2019	Provided by User
Preliminary Title Report (Old Republic Title Company, March 20, 2019)	April 25, 2019	Provided by User
User Questionnaire	April 25, 2019	Brian S. Kesler

Table 8.1 - References Information



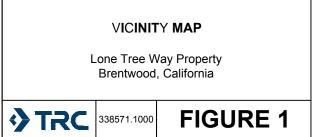


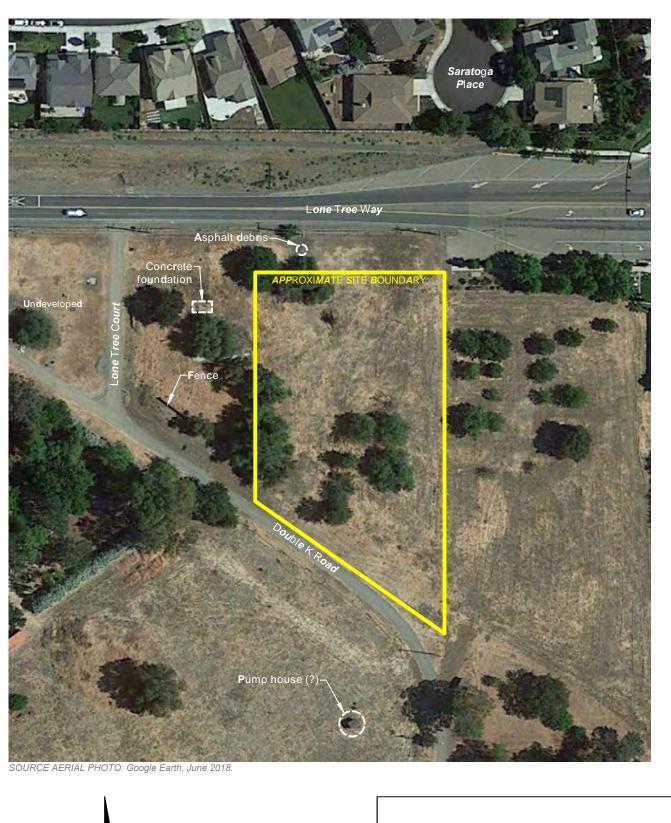
SOURCE AERIAL PHOTO: Google Earth, June 2018.

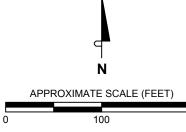
LEGEND

- (1) Valley Oak Nursery 7021 Lone Tree Way
- 2 Skipolini Property 7281 Lone Tree Way
- 3 Tri-City Auto Plaza 6935 Lone Tree Way
- (4) Acorn Self Storage 6900 Lone Tree Way

N APPROXIMATE SCALE (FEET) 0 600







200





♦ TRC

338571.1000

100

Approximate sample depth

0

FIGURE 3

Table 1 - Summary of Soil Data

Lone Tree Way Property

Lone Tree Way and Gann Street Brentwood, California

								Sample	Location									Screen	ing Levels	
Analyte	S1-0	S1-2	S2-0	S2-2	S3-0	S3-2	S4-0	S5-0	S6-0	S7-0	S8-0	S9-0	S10-0	S11-0	S12-0	S13-0	Background ^b	Residential ^a	Commercial/I	Construction Worker ^a
Organochlorine Pe	Organochlorine Pesticides																			
All Pesticides	*		*		*												NA	NA	NA	NA
g-Chlordane	0.00022 P		< 0.00010		0.00041 P										-		NE	NE	NE	NE
Dieldrin	0.00037		0.00025		0.00023										-		NE	0.037	0.16	1.1
Endosulfan I	0.00012		0.00015 P		0.00022												NE	NE	NE	NE
Endosulfan II	< 0.00010		0.00017		< 0.00010												NE	NE	NE	NE
DDD	0.00033	-	< 0.00010		< 0.00010											-	NE	2.7	12	81
DDE	0.061		0.042		0.094												NE	1.8	8.3	57
DDT	0.0078	-	0.0056		0.010												NE	1.9	8.5	57
Metals																				
Arsenic	7.2		7.1		9.1												11	0.067	0.31	0.98
Lead	89	14	150	8.7	110	8.9	39	20	18	18	13	24	34	18	17	12	48	80	320	160

Abbreviations

Notes:

* = Not detected except for analytes listed below -- = Not analyzed **Bold** values indicate detections Yellow highlight indicates concentration exceeding screening level (corresponding screening level also highlighted)

< = Not detected above reporting limit

NA = Not applicable

NE = Not estabished

P = Agreement between quantitative confirmation results exceeds method recommended limits

Footnotes:

^a Values from San Francisco Bay Regional Water Quality Control Board January 2019 Interim Final Environmental Screening Levels table Summary of Soil ESLs for direct exposure in a residential, commercial, and construction worker scenario

(http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml).

^b Background values from the following sources:

Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, Master of Science in Geosciences, December 2011.

Lawrence Berkeley National Laboratory Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory,

D. Diamond, D. Baskin, D. Brown, L. Lund, J. Najita, and I Javandel, June 2002 Revised April 2009

Bradford: Bradford, G.R., A.C. Chang, A.L. Page, D. Bakhtark, J.A. Frampton, and H. Wright 1996. Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation Special Report, Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, Riverside, 52 p.

S&B: Shacklette, H.T., and J.G. Boerngen 1984. Element Concentrations in Soils and Other Surficial Materials, Conterminous United States, U.S. Geological Survey Professional Paper 1270.

APPENDIX A: DATABASE RADIUS REPORT

Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513

Inquiry Number: 5631677.2s April 24, 2019

The EDR Radius Map[™] Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

FORM-LBC-CHM

TABLE OF CONTENTS

SECTION

PAGE

Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	100
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	PSGR-1

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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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

LONE TREE WAY BRENTWOOD, CA 94513

COORDINATES

Latitude (North):	37.9610340 - 37° 57' 39.72''
Longitude (West):	121.7198920 - 121° 43' 11.61"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	612454.6
UTM Y (Meters):	4202059.0
Elevation:	91 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date: 5640376 BRENTWOOD, CA 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: Source:

20140606 USDA

Target Property Address: LONE TREE WAY BRENTWOOD, CA 94513

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS		RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	SKIPOLINI PROPERTY	7281 LONE TREE WAY	ENVIROSTOR, VCP, HAZNET	Higher	230, 0.044, SSE
2	ACORN SELF STORAGE	6990 LONE TREE WY	CONTRA COSTA CO. SITE LIST	Higher	776, 0.147, WNW
A3	TRI CITY AUTO PLAZA	6935 LONE TREE WAY	CERS HAZ WASTE, CERS TANKS, CERS	Higher	1306, 0.247, West
A4	TRI CITY EXPRESS LUB	6935 LONE TREE WAY	RCRA NonGen / NLR	Higher	1306, 0.247, West
A5	VIZ CLEANERS INC	6935 LONE TREE WAY S	DRYCLEANERS	Higher	1306, 0.247, West
A6	TRI CITY AUTO PLAZA	6935 LONE TREE WY	EMI, CONTRA COSTA CO. SITE LIST	Higher	1306, 0.247, West
A7	VIZ CLEANERS	6935 LONE TREE WAY S	CERS HAZ WASTE, CERS	Higher	1306, 0.247, West
A8	TRI CITY AUTO PLAZA	6935 LONE TREE WAY	UST	Higher	1306, 0.247, West
A9	TRI CITY AUTO PLAZA	6935 LONE TREE WAY	AST	Higher	1306, 0.247, West
B10	DUTRA, LEROY	SMITH LN	ENVIROSTOR, SCH, SWEEPS UST, CA FID UST, CONTR	RA Lower	2425, 0.459, ESE
B11	PROPOSED FOURTH MIDD	2340 SMITH ROAD	US BROWNFIELDS, FINDS	Lower	2425, 0.459, ESE
12	LA PALOMA	6651 LONE TREE WAY	ENVIROSTOR, SCH, CERS	Higher	2707, 0.513, West
13	EMPIRE ACRES LLC	2700 EMPIRE AVENUE	ENVIROSTOR, VCP, HAZNET, NPDES, CIWQS	Higher	3665, 0.694, WNW
14	EMPIRE ELEMENTARY SC	EMPIRE AVENUE/AMBER	ENVIROSTOR, SCH	Higher	4335, 0.821, WSW
15	MILES-FENELL PROPERT	2200 SHADY WILLOW LA	ENVIROSTOR, VCP	Higher	4685, 0.887, WSW

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-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF_____ Solid Waste Information System

State and tribal leaking storage tank lists

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

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
Toxic Pits	
	National Clandestine Laboratory Register
	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

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	
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

DOD. SCRD DRYCLEANERS US FIN ASSUR. EPA WATCH LIST. 2020 COR ACTION. TSCA. TRIS. SSTS. ROD. RMP. RAATS. PRP. PADS. ICIS.	2020 Corrective Action Program List Toxic Substances Control Act Toxic Chemical Release Inventory System Section 7 Tracking Systems Records Of Decision
MLTS. COAL ASH DOE. COAL ASH EPA. PCB TRANSFORMER. RADINFO. HIST FTTS. DOT OPS. CONSENT. INDIAN RESERV. FUSRAP. UMTRA. LEAD SMELTERS.	Act)/TSCA (Toxic Substances Control Act) Material Licensing Tracking System Steam-Electric Plant Operation Data Coal Combustion Residues Surface Impoundments List PCB Transformer Registration Database Radiation Information Database FIFRA/TSCA Tracking System Administrative Case Listing Incident and Accident Data Superfund (CERCLA) Consent Decrees Indian Reservations Formerly Utilized Sites Remedial Action Program Uranium Mill Tailings Sites Lead Smelter Sites Aerometric Information Retrieval System Facility Subsystem Mines Master Index File

UXO. DOCKET HWC. ECHO. FUELS PROGRAM. CA BOND EXP. PLAN. Cortese. CUPA Listings. EMI. ENF. Financial Assurance. HAZNET.	"Cortese [®] Hazardous Waste & Substances Sites List CUPA Resources List Emissions Inventory Data Enforcement Action Listing Financial Assurance Information Listing Facility and Manifest Data
ICE. HIST CORTESE. HWP. HWT. MINES. MWMP. NPDES. PEST LIC. PROC. Notify 65. UIC. UIC GEO. WASTEWATER PITS. WDS. MILITARY PRIV SITES. PROJECT. WDR. CIWQS. CERS. WIP. NON-CASE INFO.	 ICE Hazardous Waste & Substance Site List EnviroStor Permitted Facilities Listing Registered Hazardous Waste Transporter Database Mines Site Location Listing Medical Waste Management Program Listing NPDES Permits Listing Pesticide Regulation Licenses Listing Certified Processors Database Proposition 65 Records UIC Listing UIC GEO (GEOTRACKER) Oil Wastewater Pits Listing Waste Discharge System MILITARY PRIV SITES (GEOTRACKER) PROJECT (GEOTRACKER) Waste Discharge Requirements Listing California Integrated Water Quality System CERS Well Investigation Program Case List NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS PROD WATER PONDS SAMPLING POINT	OTHER OIL & GAS (GEOTRACKER) PROD WATER PONDS (GEOTRACKER) SAMPLING POINT (GEOTRACKER) Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
	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

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 - 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 are 6 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SKIPOLINI PROPERTY Facility Id: 60002296 Status: Active	7281 LONE TREE WAY	SSE 0 - 1/8 (0.044 mi.)	1	8
<i>LA PALOMA</i> Facility Id: 7010008 Status: No Further Action	6651 LONE TREE WAY	W 1/2 - 1 (0.513 mi.)	12	88
EMPIRE ACRES LLC Facility Id: 60002665 Status: No Further Action	2700 EMPIRE AVENUE	WNW 1/2 - 1 (0.694 mi.)	13	90
EMPIRE ELEMENTARY SC Facility Id: 1010005 Status: Certified	EMPIRE AVENUE/AMBER	WSW 1/2 - 1 (0.821 mi.)	14	94
<i>MILES-FENELL PROPERT</i> Facility Id: 60001996 Status: No Further Action	2200 SHADY WILLOW LA	WSW 1/2 - 1 (0.887 mi.)	15	96
Lower Elevation	Address	Direction / Distance	Map ID	Page
DUTRA, LEROY Facility Id: 60000916 Status: Inactive - Action Required	SMITH LN	ESE 1/4 - 1/2 (0.459 mi.)	B10	79

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
TRI CITY AUTO PLAZA	6935 LONE TREE WAY	W 1/8 - 1/4 (0.247 mi.)	A8	78
Database: UST, Date of Government	: Version: 12/10/2018			
Facility Id: 07-000-773602				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI CITY AUTO PLAZA	6935 LONE TREE WAY	W 1/8 - 1/4 (0.247 mi.)	A9	78
Database: AST, Date of Government Version: 07/06/2016				

State and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SKIPOLINI PROPERTY Status: Active	7281 LONE TREE WAY	SSE 0 - 1/8 (0.044 mi.)	1	8
Facility Id: 60002296				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/17/2018 has revealed that there

is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PROPOSED FOURTH MIDD ACRES property ID: 133703	2340 SMITH ROAD	ESE 1/4 - 1/2 (0.459 mi.)	B11	85

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 10/22/2018 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
TRI CITY AUTO PLAZA	6935 LONE TREE WAY	W 1/8 - 1/4 (0.247 mi.)	A3	12
VIZ CLEANERS	6935 LONE TREE WAY S	W 1/8 - 1/4 (0.247 mi.)	A7	72

Local Lists of Registered Storage Tanks

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 10/22/2018 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
TRI CITY AUTO PLAZA	6935 LONE TREE WAY	W 1/8 - 1/4 (0.247 mi.)	A3	12

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI CITY EXPRESS LUB	6935 LONE TREE WAY	W 1/8 - 1/4 (0.247 mi.)	A4	69
EPA ID:: CAL000329240				

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VIZ CLEANERS INC	6935 LONE TREE WAY S	W 1/8 - 1/4 (0.247 mi.)	A5	70
Database: DRYCLEANERS, Date of G	overnment Version: 12/13/2018			
EPA Id: CAL000340540				

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

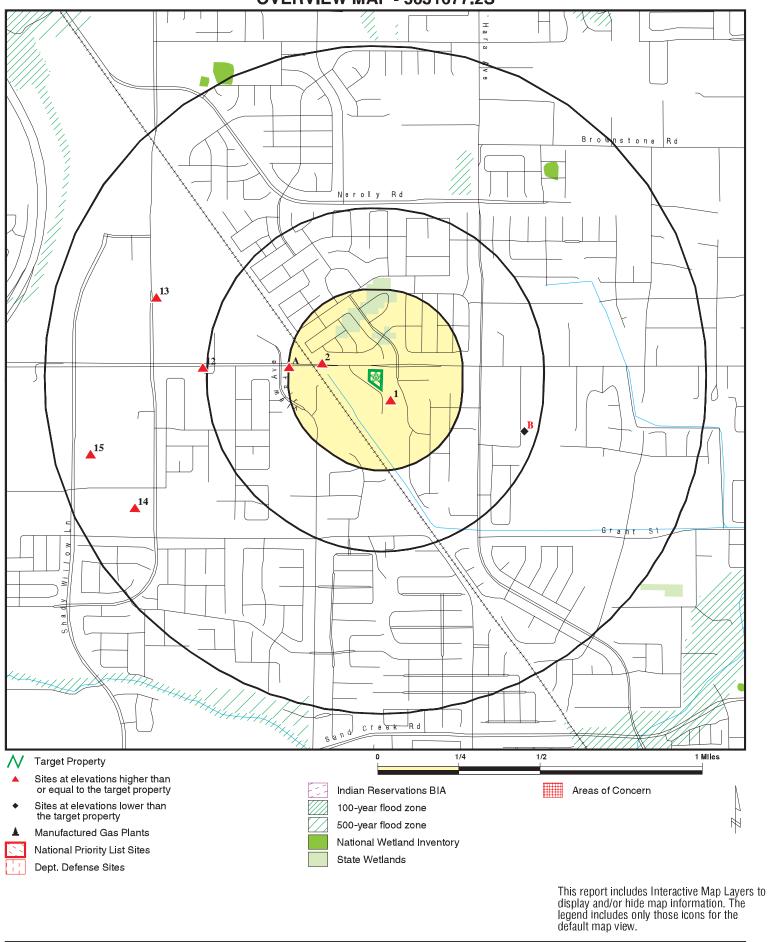
A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 02/14/2019 has revealed that there are 2 CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ACORN SELF STORAGE Facility Id: FA0029616	6990 LONE TREE WY	WNW 1/8 - 1/4 (0.147 mi.)	2	12
<i>TRI CITY AUTO PLAZA</i> Facility Id: FA0030271 Facility Id: FA0030602	6935 LONE TREE WY	W 1/8 - 1/4 (0.247 mi.)	A6	71

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

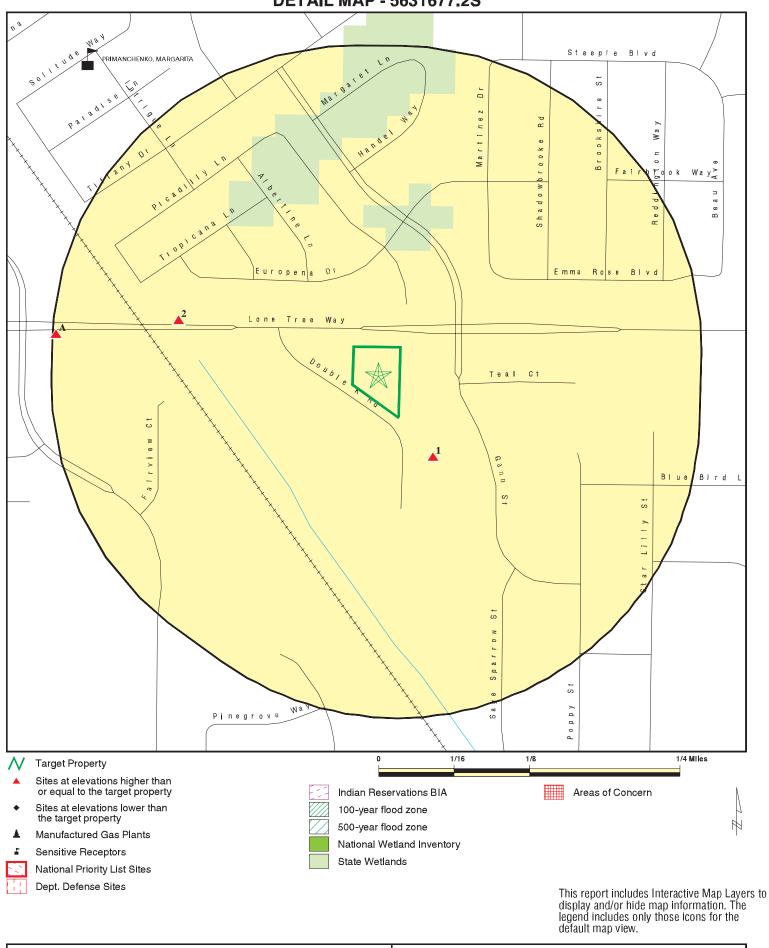
Site Name	Database(s)
LONE TREE LANDING	CIWQS
LONE TREE WAY & HILLCREST WIDENING	CIWQS
LONE TREE WAY	CIWQS
LONE TREE TOWNE PLAZA	CIWQS
LONE TREE PLAZA	CIWQS
GOLDEN EAGLE AT LONE TREE	CIWQS
LONE TREE PLAZA	CIWQS
LONE TREE WAY INTERSECTION IMPROVE	NPDES
VENTURINI LEASE SITE (BRENTWOOD OI	CPS-SLIC
OXY USA INC. (BRENTWOOD OIL & GAS	CPS-SLIC

OVERVIEW MAP - 5631677.2S



	CLIENT: TRC CONTACT: Glenn Young
BRENTWOOD CA 94513	INQUIRY #: 5631677.2s
LAT/LONG: 37.961034 / 121.719892	DATE: April 24, 2019 6:46 pm

DETAIL MAP - 5631677.2S



ADDRESS: LONE TREE WAY CONTACT: 0 BRENTWOOD CA 94513 INQUIRY #: 5	
--	--

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 0.001		0 0 0	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional controls / engineering controls registries								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list	0.000		Ū	Ũ	Ũ			0
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equiva			Ū					Ū
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva		5	Ū	Ũ	Ū.	Ũ		Ū
ENVIROSTOR	1.000	-	1	0	1	4	NR	6
State and tribal landfill a solid waste disposal site	and/or		·	÷	·	·		-
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking		ists						
LUST	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST CPS-SLIC	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	ed storage tar	nk lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 1 1 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 1 1 0
State and tribal voluntar	y cleanup site	es						
INDIAN VCP VCP	0.500 0.500		0 1	0 0	0 0	NR NR	NR NR	0 1
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN		8						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / S Waste Disposal Sites	Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.001 0.500 0.500 0.500 0.500		0 0 0 0 0 0	0 0 NR 0 0 0 0	0 0 NR 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	s waste /							
US HIST CDL HIST Cal-Sites SCH CDL CERS HAZ WASTE Toxic Pits US CDL PFAS	0.001 1.000 0.250 0.001 0.250 1.000 0.001 0.001		0 0 0 0 0 0 0 0	NR 0 NR 2 0 NR NR	NR 0 NR NR 0 NR NR	NR 0 NR NR 0 NR NR	NR NR NR NR NR NR	0 0 0 2 0 0 0
Local Lists of Registere	d Storage Tar	nks						
SWEEPS UST HIST UST CERS TANKS CA FID UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 1 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 1 0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2 DEED	0.001 0.500		0 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency F	Release Repo	orts						
HMIRS CHMIRS LDS MCS SPILLS 90	0.001 0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Other Ascertainable Rec								
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES	0.250 1.000 1.000 0.500 0.001 0.001 0.250 0.001 0			1 0 0 0 RR 0 RR R 0 RR RR RR RR NR 0 RR NR 0 RR 0 RR NR NR NR NR NR NR NR NR 0 N 0 0 NR 0 N	NR 0 0 0 NR R R R NR 0 NR	NR 0 0 RR RR RR N 0 RR RR RR RR RR RR N 0 N N N N	NR R R R R R R R R R R R R R R R R R R	$ \begin{array}{c} 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
FINDS UXO DOCKET HWC ECHO FUELS PROGRAM CA BOND EXP. PLAN Cortese CUPA Listings	0.001 1.000 0.001 0.250 1.000 0.500 0.250		0 0 0 0 0 0 0	NR 0 NR 0 0 0 0	NR 0 NR NR 0 0 NR	NR 0 NR NR 0 NR NR	NR NR NR NR NR NR NR	0 0 0 0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
	(Miles)	Toperty	< 1/0	1/0 - 1/4	1/7 - 1/2	1/2 - 1		Tiotteu
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
EMI	0.001		Ő	NR	NR	NR	NR	Ö
ENF	0.001		Õ	NR	NR	NR	NR	Õ
Financial Assurance	0.001		0	NR	NR	NR	NR	Ō
HAZNET	0.001		Ō	NR	NR	NR	NR	Ō
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
CONTRA COSTA CO. SITI			0	2	NR	NR	NR	2
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 HISTORICA	L 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 GOVERN	MENT ARCHIV	'ES						
Exclusive Recovered Gov	rt. Archives							
RGA LF	0.001		0	NR	NR	NR	NR	0
RGALUST	0.001		Õ	NR	NR	NR	NR	Õ
			-					-
- Totals		0	2	9	2	4	0	17

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Database(s)

EDR ID Number EPA ID Number

1 SSE < 1/8 0.044 mi. 230 ft.	SKIPOLINI PROPERTY 7281 LONE TREE WAY BRENTWOOD, CA 94513		ENVIROSTOR VCP HAZNET	S112931201 N/A
Relative: Higher Actual: 92 ft.	ENVIROSTOR: Facility ID: Status: Status Date: Site Code: Site Type: Site Type Detailed: Acres: NPL: Regulatory Agencies: Lead Agency: Program Manager: Supervisor: Division Branch: Assembly: Senate: Special Program: Restricted Use: Site Mgmt Req: Funding: Latitude: Longitude: APN: Past Use: Potential COC: Confirmed COC: Potential Description: Alias Name: Alias Type: Alias Name: Alias Type: Completed Info: Completed Info: Completed Date: Completed Date: Completed Date: Completed Date:			
	Completed Area Name: Completed Sub Area Na	PROJECT WIDE me: Not reported		
	Completed Document Ty			
	Completed Date:	01/27/2016		
	Comments:	DTSC is the lead Agency. This project was assigned in	Jan 2016	
	Completed Area Name:	PROJECT WIDE		

Database(s)

EDR ID Number EPA ID Number

SKIPOLINI PROPERTY (Continued) S112931201 Completed Sub Area Name: Not reported Voluntary Cleanup Agreement Termination Notification Completed Document Type: Completed Date: 03/21/2018 Comments: Date added to complete activity. Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Annual Oversight Cost Estimate Completed Date: 09/21/2017 Comments: FY 2017/2018 COST ESTIMATE FOR OVERSIGHT OF RESPONSE WORK COMPLETED. Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Voluntary Cleanup Agreement Completed Date: 07/08/2016 Not reported Comments: PROJECT WIDE Future Area Name: Future Sub Area Name: Not reported Future Document Type: Certification Future Due Date: 2020 Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported Future Document Type: **Public Notice** Future Due Date: 2019 Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported Future Document Type: Removal Action Completion Report Future Due Date: 2019 PROJECT WIDE Future Area Name: Future Sub Area Name: Not reported Future Document Type: **CEQA - Notice of Exemption** Future Due Date: 2019 Schedule Area Name: PROJECT WIDE Schedule Sub Area Name: Not reported Schedule Document Type: Removal Action Workplan Schedule Due Date: 01/04/2019 Schedule Revised Date: 04/07/2019 PROJECT WIDE Schedule Area Name: Schedule Sub Area Name: Not reported Fact Sheets Schedule Document Type: Schedule Due Date: 11/07/2018 Schedule Revised Date: Not reported Schedule Area Name: PROJECT WIDE Schedule Sub Area Name: Not reported Schedule Document Type: **Community Profile** Schedule Due Date: 10/17/2018 Schedule Revised Date: Not reported VCP: Facility ID: 60002296 Site Type: Voluntary Cleanup Site Type Detail: Voluntary Cleanup Site Mgmt. Req.: NONE SPECIFIED Acres: 1.72 National Priorities List: NO Cleanup Oversight Agencies: SMBRP

Database(s)

EDR ID Number EPA ID Number

S112931201

SKIPOLINI PROPERTY (Continued)

Lead Agency: SMBRP Lead Agency Description: DTSC - Site Cleanup Program Project Manager: Hongbo Zhu Supervisor: **Daniel Murphy Division Branch: Cleanup Berkeley** 202227 Site Code: Assembly: , 11 , 07 Senate: Special Programs Code: Not reported Status: Active 01/01/2016 Status Date: NO Restricted Use: **Responsible Party** Funding: Lat/Long: 37.96159 / -121.7193 APN: 018-080-022, 018080022 Past Use: AGRICULTURAL - ORCHARD, RESIDENTIAL AREA Potential COC: 30013 Confirmed COC: 30013 Potential Description: SOIL 018-080-022 Alias Name: Alias Type: APN Alias Name: 018080022 APN Alias Type: Alias Name: 202078 Alias Type: Project Code (Site Code) 202078 Alias Name: Alias Type: Project Code (Site Code) Alias Name: 202227 Alias Type: Project Code (Site Code) Alias Name: 60002296 Envirostor ID Number Alias Type: Completed Info: Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Annual Oversight Cost Estimate Completed Document Type: Completed Date: 10/13/2016 Comments: Not reported PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Application Completed Date: 01/27/2016 Comments: DTSC is the lead Agency. This project was assigned in Jan 2016 Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Voluntary Cleanup Agreement Termination Notification Completed Date: 03/21/2018 Comments: Date added to complete activity. Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Annual Oversight Cost Estimate

FY 2017/2018 COST ESTIMATE FOR OVERSIGHT OF RESPONSE WORK COMPLETED.

Completed Area Name: PROJECT WIDE

09/21/2017

Completed Date:

Comments:

Database(s)

EDR ID Number **EPA ID Number**

SKIPC

POLINI PROPERTY (Continue	ed)
Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	Not reported Voluntary Cleanup Agreement 07/08/2016 Not reported
Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Future Area Name: Future Sub Area Name: Future Due Date: Future Due Date: Future Area Name: Future Sub Area Name: Future Due Date: Future Due Date: Future Area Name: Future Due Date: Future Area Name: Future Due Date: Schedule Area Name: Schedule Sub Area Name: Schedule Document Type: Schedule Date: Schedule Revised Date: Schedule Sub Area Name: Schedule Sub Area Name: Schedule Sub Area Name: Schedule Sub Area Name: Schedule Area Name: Schedule Area Name: Schedule Area Name: Schedule Area Name: Schedule Area Name: Schedule Sub Area Name:	PROJECT WIDE Not reported Certification 2020 PROJECT WIDE Not reported Public Notice 2019 PROJECT WIDE Not reported Removal Action Completion Report 2019 PROJECT WIDE Not reported CEQA - Notice of Exemption 2019 PROJECT WIDE Not reported Removal Action Workplan 01/04/2019 04/07/2019 PROJECT WIDE Not reported Removal Action Workplan 01/04/2019 04/07/2019 PROJECT WIDE Not reported Fact Sheets 11/07/2018 Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported DROJECT WIDE Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported PROJECT WIDE Not reported Not reported

HAZNET:

MERITAGE HOMES OF NORTHERN CALIFORNIA INC Facility Name: envid: S112931201 Year: 2003 GEPAID: CAC002567472 Contact: JOAN SYLVIA/MGR Telephone: 9252883033 Mailing Name: Not reported Mailing Address: 1800 SUTTER ST #500 Mailing City, St, Zip: CONCORD, CA 94520 Not reported Gen County: TSD EPA ID: CAD982042475 TSD County: Not reported Asbestos containing waste Waste Category: Disposal Method: Disposal, Land Fill Tons: 5.05 Not reported Cat Decode: Method Decode: Not reported Contra Costa Facility County:

2 WNW 1/8-1/4 0.147 mi. 776 ft.	ACORN SELF STORAGE 6990 LONE TREE WY BRENTWOOD, CA 94513	CONTRA COSTA CO. SITE LIST S104532785 N/A
Relative: Higher Actual: 98 ft.	CONTRA COSTA CO. SIT Facility ID: Billing Status: Program Status: Program/Elements: Region: Cupa Number:	E LIST: FA0029616 INACTIVE, NON-BILLABLE CONTRA COSTA CO. SITE LIST HMBP GENERAL CONTRA COSTA 772943
	Facility ID: Billing Status: Program Status: Program/Elements: Region: Cupa Number:	FA0029616 INACTIVE, NON-BILLABLE CONTRA COSTA CO. SITE LIST HWG GENERAL CONTRA COSTA 772943
A3 West 1/8-1/4 0.247 mi. 1306 ft.	TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY BRENTWOOD, CA 94513 Site 1 of 7 in cluster A	CERS HAZ WASTE S121748583 CERS TANKS N/A CERS
Relative: Higher Actual: 99 ft.	CERS HAZ WASTE: Site ID: CERS ID: CERS Description:	163317 10018531 Hazardous Waste Generator
	Violations: Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes: Violation Division: Violation Program: Violation Source:	163317 TRI CITY AUTO PLAZA INC 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Hazardous Waste Generator Program - Operations/Maintenance - General Returned to compliance on 05/26/2017. Contra Costa County Health Services Department HW CERS
	Site ID: Site Name: Violation Date: Citation: Violation Description:	163317 TRI CITY AUTO PLAZA INC 05-04-2018 HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e) Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic
	Violation Notes:	(VPH) monitoring. OBSERVATION: Owner/Operator did not maintain the interstitial space under constant vacuum, pressure, or hydrostatic monitoring such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment. The facility has active L10 (diesel STP - brine) and S9 (diesel-91 vac annular) alarms. Diesel STP

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITT AUTO PLAZA INC	(Continued) 512174
Violation Division: Violation Program: Violation Source:	sump was reported to be empty of brine by UST technician who performed monitoring certification on 4/19/18. CORRECTIVE ACTION: Maintain the interstitial space so that constant vacuum, pressure, or hydrostatic monitoring occurs. Obtain a permit and perform required repairs. Submit verification. Contra Costa County Health Services Department UST CERS
Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes: Violation Division: Violation Program:	163317 TRI CITY AUTO PLAZA INC 04-20-2015 HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple Business Plan Program - Administration/Documentation - General Returned to compliance on 04/20/2015. Contra Costa County Health Services Department HMRRP
Violation Source: Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes:	CERS 163317 TRI CITY AUTO PLAZA INC 04-20-2017 HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple Business Plan Program - Training - General Returned to compliance on 05/26/2017. OBSERVATION: Gas station employees have not received training on carbon dioxide and propane. Express Lube employees have not received annual documented training on hazardous materials/emergency response. CORRECTIVE ACTION: Train
Violation Division: Violation Program: Violation Source:	employees and submit documentation to CCHS HMP. Contra Costa County Health Services Department HMRRP CERS
Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes: Violation Division: Violation Program: Violation Source:	163317 TRI CITY AUTO PLAZA INC 07-19-2018 HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284 Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees. Not reported Contra Costa County Health Services Department UST CERS
Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes: Violation Division: Violation Program: Violation Source:	163317 TRI CITY AUTO PLAZA INC 04-16-2014 HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections UST Program - Operations/Maintenance - General Returned to compliance on 06/06/2014. Contra Costa County Health Services Department UST CERS

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

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EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued	1)	S12
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Violation Source.	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:		
	04-19-2016	
Citation:	Un-Specified	
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinan only.	се
Violation Notes:	Returned to compliance on 05/05/2016.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
violation Source.	CERG	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2017	
Citation:		
Citation.	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple	
Violation Description:	UST Program - Administration/Documentation - General - Must inclu	ahu
Violation Description.	violation description, proper statute and regulation citation in the	Juc
	"comment" section.	
Violation Notes:	Returned to compliance on 10/12/2017.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:		
	TRI CITY AUTO PLAZA INC	
Violation Date:	09-01-2017	
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapt	er
Malatian Description	16, Section(s) 2712(i)	
Violation Description:	Failure to retain a copy of the permit to operate at the facility.	
Violation Notes:	Returned to compliance on 10/12/2017.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
0.1	1000.17	
Site ID:		
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	06-25-2015	
Citation:	Un-Specified	
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinan	се
Violation Notes:	only. Returned to compliance on 08/13/2015.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	05-01-2015	
Citation:	Un-Specified	
Violation Description:	UST Program - Administration/Documentation - For use of Local	
Violation Notae	Ordinance only	
Violation Notes:	Returned to compliance on 05/19/2015.	

EDR ID Number Database(s)

EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: 04-20-2017 Violation Date: Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General Violation Notes: Returned to compliance on 04/28/2017. Violation Division: Contra Costa County Health Services Department Violation Program: HW Violation Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-20-2017 Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General Violation Notes: Returned to compliance on 09/21/2018. Contra Costa County Health Services Department Violation Division: Violation Program: HW Violation Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-19-2016 **Un-Specified** Citation: UST Program - Administration/Documentation - For use of Local Violation Description: Ordinance only Violation Notes: Returned to compliance on 04/19/2016. Violation Division: Contra Costa County Health Services Department UST Violation Program: Violation Source: CERS Evaluation: Eval General Type: **Compliance Evaluation Inspection** 04-20-2015 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-20-2017 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: HMRRP **Eval Source:** CERS Eval General Type: **Compliance Evaluation Inspection**

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continue	d)
Eval Date:	04-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-04-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency

Database(s) EPA

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)		
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	APSA	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-24-2013	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
	OEKO	
Eval General Type:	Other/Unknown	
Eval Date:	05-01-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval Source.	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	
Eval Source.	CER3	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	07-19-2018	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	09-01-2017	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Eval Source: CERS Eval General Type: Other/Unknown Eval Date: 01-25-2018 Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-16-2014 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency Not reported Eval Notes: Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-20-2015 Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: HMRRP Eval Source: CERS Eval General Type: Other/Unknown Eval Date: 05-06-2016 Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: UST Eval Source: CERS Eval General Type: Other/Unknown 05-30-2017 Eval Date: Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: HMRRP Eval Source: CERS Eval General Type: Other/Unknown Eval Date: 06-25-2015 Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: APSA **Eval Source:** CERS Eval General Type: Other/Unknown

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

RI CITY AUTO PLAZA INC (Continued)	
Eval Date:	09-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Fuel Os and Fuel	O service and Easter the state of the
Eval General Type:	Compliance Evaluation Inspection 04-16-2014
Eval Date: Violations Found:	04-16-2014 No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Enforcement Action:	162217
Site ID: Site Name:	
	TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY
Site Address:	0900 LOINE TREE WAY

EDR ID Number **EPA ID Number** Database(s)

TRI CITY AUTO PLAZA INC (Continued) Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-16-2014 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-19-2016 Notice of Violation (Unified Program) Enf Action Type: Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Contra Costa County Health Services Department Enf Action Division: UST Enf Action Program: Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 Notice of Violation (Unified Program) Enf Action Type: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Description: Enf Action Notes: Not reported Enf Action Division: Contra Costa County Health Services Department Enf Action Program: APSA CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-20-2015 Enf Action Type: Notice of Violation (Unified Program) Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Not reported Enf Action Notes:

Contra Costa County Health Services Department HMRRP CERS

163317

Enf Action Division:

Enf Action Program:

Enf Action Source:

Site ID:

Site City:

Site Zip: Enf Action Date:

Site Name:

Site Address:

Enf Action Type: Enf Action Description: TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY BRENTWOOD 94513 04-20-2015 Notice of Violation (Unified Program) Notice of Violation Issued by the Inspector at the Time of Inspection

Database(s) EPA

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Notes: Not reported Contra Costa County Health Services Department Enf Action Division: Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HW Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department UST Enf Action Program: Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-24-2013 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source:

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY Site Address: Site City: BRENTWOOD Site Zip: 94513 05-01-2015 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 05-04-2018 Notice of Violation (Unified Program) Enf Action Type: Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Enf Action Division: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 06-25-2015 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: Contra Costa County Health Services Department UST Enf Action Program: Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 07-19-2018 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

RI CITY AUTO PLAZA INC	Continued)	S
Enf Action Date:	09-01-2017	
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:	Contra Costa County Health Services Department	
Enf Action Program:	UST	
Enf Action Source:	CERS	
Coordinates:		
Site ID:	163317	
Facility Name:	TRI CITY AUTO PLAZA INC	
Env Int Type Code:	HWG	
Program ID:	10018531	
Coord Name:	Not reported	
Ref Point Type Desc:	Unknown	
Latitude:	37.961565	
Longitude:	-121.724755	
0		
Affiliation:		
Affiliation Type Desc:	CUPA District	
Entity Name:	Contra Costa County Health Services Department	
Entity Title:	Not reported	
Affiliation Address:	4585 Pacheco BlvdSuite 100	
Affiliation City:	Martinez	
,		
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	94553	
Affiliation Phone:	(925) 335-3200	
Affiliation Type Desc:	Facility Mailing Address	
Entity Name:	Mailing Address	
	5	
Entity Title:	Not reported	
Affiliation Address:	6935 Lone tree way	
Affiliation City:	Brentwood, CA	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	94513	
Affiliation Phone:	Not reported	
Affiliation Type Desc:	Identification Signer	
Entity Name:	Monang gorlorwulu	
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:	Legal Owner	
Entity Name:	Igor Pashover	
Entity Title:	Not reported	
Affiliation Address:	6935 Lone Tree way	
Affiliation City:	Brentwood	
Affiliation State:	CA	
	United States	
Affiliation Country:	United States	

Database(s)

EDR ID Number **EPA ID Number**

TRI CITY AUTO PLAZA INC (Continued)

Affiliation Zip: 94513 Affiliation Phone: (925) 513-7305 Affiliation Type Desc: Parent Corporation Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: CA Affiliation Country: Affiliation Zip: 94513 Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: CA Affiliation Country: Affiliation Zip: 94513 Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: owner Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address:

Chevron Extra Mile Not reported Property Owner Igor Pashover Not reported 6935 Lone tree way Brentwood, United States (925) 513-7305 UST Tank Operator IGOR PASKHOVER Not reported 6935 lone tree way

brentwood **United States** (925) 513-7305

Document Preparer Monang gorlorwulu Not reported Not reported Not reported Not reported Not reported Not reported Not reported

UST Permit Applicant igor paskhover Not reported Not reported Not reported Not reported Not reported (925) 513-7305

UST Tank Owner **IGOR PASKHOVER** Not reported 6935 lone tree way

Database(s)

EDR ID Number EPA ID Number

S121748583

TRI CITY AUTO PLAZA INC (Continued)

Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: CERS TANKS: Site ID: CERS ID: **CERS** Description: Violations: Site ID: Site Name: Violation Date: Citation: Violation Description: Violation Notes: Violation Division: Violation Program: Violation Source: Site ID:

Site Name: Violation Date: brentwood CA United States 94513 (925) 513-7305

Environmental Contact Monang Gorlorwulu Not reported 6935 Lone tree way Brentwood, CA Not reported 94513 (925) 513-7305

Operator Tri city Auto Plaza inc Not reported Not reported Not reported Not reported Not reported Not reported (925) 513-7305

UST Property Owner Name Igor Paskhover Not reported 6935 Ione tree way brentwood CA United States 94513 (925) 513-7305

163317 10018531 Aboveground Petroleum Storage

163317 TRI CITY AUTO PLAZA INC 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Hazardous Waste Generator Program - Operations/Maintenance - General Returned to compliance on 05/26/2017. Contra Costa County Health Services Department HW CERS

163317 TRI CITY AUTO PLAZA INC 05-04-2018

CITY AUTO PLAZA INC (Con	ntinued) \$1217485
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the
	primary or secondary containment is detected before the liquid or
	vapor phase of the hazardous substance stored in the UST tank is
	released into the environment, i.e., vapor, pressure, hydrostatic
	(VPH) monitoring.
Violation Notes:	OBSERVATION: Owner/Operator did not maintain the interstitial space
violation ruotes.	under constant vacuum, pressure, or hydrostatic monitoring such that a
	breach in the primary or secondary containment is detected before the
	liquid or vapor phase of the hazardous substance stored in the UST
	tank is released into the environment. The facility has active L10
	•
	(diesel STP - brine) and S9 (diesel-91 vac annular) alarms. Diesel STP
	sump was reported to be empty of brine by UST technician who performed
	monitoring certification on 4/19/18. CORRECTIVE ACTION: Maintain the
	interstitial space so that constant vacuum, pressure, or hydrostatic
	monitoring occurs. Obtain a permit and perform required repairs.
	Submit verification.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/20/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,
	Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 05/26/2017. OBSERVATION: Gas station
	employees have not received training on carbon dioxide and propane.
	Express Lube employees have not received annual documented training on
	hazardous materials/emergency response. CORRECTIVE ACTION: Train
	employees and submit documentation to CCHS HMP.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	07-19-2018
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7,
	Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but
	not limited to unpaid permit fees.
Violation Notes:	
VIOIALION NOLES.	Not reported
Violation Division:	Contra Costa County Health Services Department

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continu	ied) \$121	7485
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-16-2014	
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter	
	6.7, Section(s) Multiple Sections	
Violation Description:	UST Program - Operations/Maintenance - General	
Violation Notes:	Returned to compliance on 06/06/2014.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program: Violation Source:	UST CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2015	
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple	
Violation Description:	APSA Program - Administration/Documentation - General	
Violation Notes:	Returned to compliance on 06/29/2015.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	APSA	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	09-01-2017	
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple	
Violation Description:	UST Program - Administration/Documentation - General - Must include	
	violation description, proper statute and regulation citation in the	
	"comment" section.	
Violation Notes:	Not reported	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2017	
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,	
	Section(s) Multiple	
Violation Description:	Business Plan Program - Administration/Documentation - General	
Violation Notes:	Returned to compliance on 05/24/2017. OBSERVATION: The site map is	
	missing required elements including spill response equipment (fire	
	extinguishers, spill absorbent), oil changer hazardous materials	
	storage areas, evacuation area, loading area, propane and carbon	
	dioxide locations. CORRECTIVE ACTION: Upload updated site map to CE	RS.
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	HMRRP	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2015	
Citation:	Un-Specified	

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only. Returned to compliance on 08/13/2015. Violation Notes: Contra Costa County Health Services Department Violation Division: Violation Program: UST CERS Violation Source: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-24-2013 HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter Citation: 6.7, Section(s) Multiple Sections Violation Description: UST Program - Administration/Documentation - General Violation Notes: Returned to compliance on 06/04/2013. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-19-2016 Un-Specified Citation: Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only. Violation Notes: Returned to compliance on 05/05/2016. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-20-2017 HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Citation: Section(s) Multiple UST Program - Administration/Documentation - General - Must include Violation Description: violation description, proper statute and regulation citation in the "comment" section. Violation Notes: Returned to compliance on 10/12/2017. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 09-01-2017 Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i) Violation Description: Failure to retain a copy of the permit to operate at the facility. Violation Notes: Returned to compliance on 10/12/2017. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC 06-25-2015 Violation Date: Citation: **Un-Specified**

EDR ID Number **EPA ID Number** Database(s)

TRI CITY AUTO PLAZA INC (Continued)

Eval Notes:

S121748583

Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only. Violation Notes: Returned to compliance on 08/13/2015. Contra Costa County Health Services Department Violation Division: Violation Program: UST CERS Violation Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 05-01-2015 Citation: **Un-Specified** UST Program - Administration/Documentation - For use of Local Violation Description: Ordinance only Violation Notes: Returned to compliance on 05/19/2015. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-20-2017 Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General Violation Notes: Returned to compliance on 04/28/2017. Violation Division: Contra Costa County Health Services Department Violation Program: HW Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Citation: Section(s) Multiple Hazardous Waste Generator Program - Operations/Maintenance - General Violation Description: Returned to compliance on 09/21/2018. Violation Notes: Contra Costa County Health Services Department Violation Division: Violation Program: HW Violation Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-19-2016 **Un-Specified** Citation: Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only Violation Notes: Returned to compliance on 04/19/2016. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Evaluation: Eval General Type: **Compliance Evaluation Inspection** 04-20-2015 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency

Not reported

Database(s) EP

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)		
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2017	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2017	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HW	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	05-04-2018	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	05-30-2017	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HW	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-16-2014	
Violations Found:	No	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HW	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-19-2016	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)		
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2015	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	APSA	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2017	
Violations Found:	No	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	APSA	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-24-2013	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	05-01-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	07-19-2018	
Violations Found:	Yes	

EDR ID Number Database(s)

EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

I CITY AUTO PLAZA INC (Continued)		
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	09-01-2017	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program: Eval Source:	UST CERS	
Eval Source.	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	01-25-2018	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes: Eval Division:	Not reported	
Eval Division: Eval Program:	Contra Costa County Health Services Department UST	
Eval Program. Eval Source:	CERS	
Eval Gource.	OEKO	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-16-2014	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes: Eval Division:	Not reported	
Eval Division. Eval Program:	Contra Costa County Health Services Department UST	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2015	
Violations Found:	Yes Routing dang by local agongy	
Eval Type: Eval Notes:	Routine done by local agency Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	05-06-2016	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	05-30-2017	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

on i Aoro i EALA ino (continue	a)
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-25-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
	APSA
Eval Program: Eval Source:	CERS
Eval Source.	CERS
	Other/I Inknown
Eval General Type:	Other/Unknown
Eval Date:	09-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Flogram. Eval Source:	CERS
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Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

RI CITY AUTO PLAZA INC (Continued)		
Eval General Type:	Other/Unknown	
Eval Date:	08-13-2015	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Enforcement Action:		
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Site Address:	6935 LONE TREE WAY	
Site City:	BRENTWOOD	
Site Zip:	94513	
Enf Action Date:	04-16-2014	
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:	Contra Costa County Health Services Department	
Enf Action Program:	UST	
Enf Action Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Site Address:	6935 LONE TREE WAY	
Site City:	BRENTWOOD	
Site Zip:	94513	
Enf Action Date:	04-19-2016	
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:	Contra Costa County Health Services Department UST	
Enf Action Program: Enf Action Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Site Address:	6935 LONE TREE WAY	
Site City:	BRENTWOOD	
Site Zip:	94513	
Enf Action Date:	04-20-2015	
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:	Contra Costa County Health Services Department	
Enf Action Program:	APSA	
Enf Action Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Site Address:	6935 LONE TREE WAY	
Site City:	BRENTWOOD	
Site Zip:	94513	
Enf Action Date:	04-20-2015	
Enf Action Type:	Notice of Violation (Unified Program)	
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection	

Database(s) EPA ID

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Notes: Not reported Contra Costa County Health Services Department Enf Action Division: Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HW Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 04-20-2017 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source:

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY Site Address: Site City: BRENTWOOD Site Zip: 94513 04-24-2013 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 05-01-2015 Notice of Violation (Unified Program) Enf Action Type: Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Enf Action Division: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 05-04-2018 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: Contra Costa County Health Services Department UST Enf Action Program: Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 06-25-2015 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Date: 07-19-2018 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: Contra Costa County Health Services Department UST Enf Action Program: CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 09-01-2017 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Coordinates: Site ID: 163317 TRI CITY AUTO PLAZA INC Facility Name: Env Int Type Code: HWG Program ID: 10018531 Coord Name: Not reported Ref Point Type Desc: Unknown Latitude: 37.961565 -121.724755 Longitude: Affiliation: Affiliation Type Desc: **CUPA** District Entity Name: Contra Costa County Health Services Department Entity Title: Not reported Affiliation Address: 4585 Pacheco BlvdSuite 100 Affiliation City: Martinez Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 94553 Affiliation Phone: (925) 335-3200 Facility Mailing Address Affiliation Type Desc: Entity Name: Mailing Address Entity Title: Not reported Affiliation Address: 6935 Lone tree way Affiliation City: Brentwood, CA Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 94513 Affiliation Phone: Not reported Affiliation Type Desc: Identification Signer Entity Name: Monang gorlorwulu Entity Title: Not reported Affiliation Address: Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Legal Owner Igor Pashover

Not reported

Brentwood

United States

(925) 513-7305

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported Not reported

Property Owner

6935 Lone tree way

Igor Pashover

Not reported

Brentwood,

United States

(925) 513-7305

Not reported

brentwood

United States

(925) 513-7305

Not reported

Document Preparer

Monang gorlorwulu

CA

94513

UST Tank Operator

IGOR PASKHOVER

6935 lone tree way

CA

94513

Parent Corporation Chevron Extra Mile

CA

94513

6935 Lone Tree way

Database(s)

EDR ID Number EPA ID Number

S121748583

TRI CITY AUTO PLAZA INC (Continued)

Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name:

Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc:

UST Permit Applicant

Database(s)

EDR ID Number **EPA ID Number**

TRI CITY AUTO PLAZA INC (Continued)

Entity Name: igor paskhover Entity Title: owner Affiliation Address: Not reported Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Site ID: CERS ID: **CERS** Description: Violations:

Site ID: Site Name: Violation Date: Not reported Not reported Not reported Not reported (925) 513-7305 **UST Tank Owner** IGOR PASKHOVER Not reported 6935 lone tree way brentwood CA United States 94513 (925) 513-7305

Environmental Contact Monang Gorlorwulu Not reported 6935 Lone tree way Brentwood, CA Not reported 94513 (925) 513-7305

Operator Tri city Auto Plaza inc Not reported Not reported Not reported Not reported Not reported Not reported (925) 513-7305

UST Property Owner Name Igor Paskhover Not reported 6935 lone tree way brentwood CA United States 94513 (925) 513-7305

163317 10018531 Underground Storage Tank

163317 TRI CITY AUTO PLAZA INC 04-20-2017

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

I CITY AUTO PLAZA INC (Con	tinued) S121748
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/26/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	05-04-2018
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is
	released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	OBSERVATION: Owner/Operator did not maintain the interstitial space under constant vacuum, pressure, or hydrostatic monitoring such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment. The facility has active L10 (diesel STP - brine) and S9 (diesel-91 vac annular) alarms. Diesel STP sump was reported to be empty of brine by UST technician who performed
	monitoring certification on 4/19/18. CORRECTIVE ACTION: Maintain the interstitial space so that constant vacuum, pressure, or hydrostatic monitoring occurs. Obtain a permit and perform required repairs. Submit verification.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes: Violation Division:	Returned to compliance on 04/20/2015.
Violation Program:	Contra Costa County Health Services Department
Violation Source:	HMRRP CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Violation Notes:	Business Plan Program - Training - General Returned to compliance on 05/26/2017. OBSERVATION: Gas station employees have not received training on carbon dioxide and propane. Express Lube employees have not received annual documented training on hazardous materials/emergency response. CORRECTIVE ACTION: Train employees and submit documentation to CCHS HMP.
Violation Division: Violation Program:	Contra Costa County Health Services Department HMRRP

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

on Actor EALA Into (continue	3)	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	07-19-2018	
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7,	
Citation.	Section(s) 25284	
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.	
Violation Notes:	Not reported	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-16-2014	
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections	
Violation Description:	UST Program - Operations/Maintenance - General	
Violation Notes:	Returned to compliance on 06/06/2014.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2015	
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple	
Violation Description:	APSA Program - Administration/Documentation - General	
Violation Notes:	Returned to compliance on 06/29/2015.	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	APSA	
Violation Source:	CERS	
	400047	
Site ID:		
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	09-01-2017	
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple	
Violation Description:	UST Program - Administration/Documentation - General - Must include	
	violation description, proper statute and regulation citation in the	
	"comment" section.	
Violation Notes:	Not reported	
Violation Division:	Contra Costa County Health Services Department	
Violation Program:	UST	
Violation Source:	CERS	
Site ID:	163317	
Site Name:	TRI CITY AUTO PLAZA INC	
Violation Date:	04-20-2017	
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,	
	Section(s) Multiple	
Violation Description:	Business Plan Program - Administration/Documentation - General	
Violation Notes:	Returned to compliance on 05/24/2017. OBSERVATION: The site map is	
	missing required elements including spill response equipment (fire	

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

I CITT AUTO PLAZA INC	(Continued) 512174656
	extinguishers, spill absorbent), oil changer hazardous materials storage areas, evacuation area, loading area, propane and carbon diavida leastions, CORRECTIVE ACTION. Unlead undeted site men to CERS
Violation Division:	dioxide locations. CORRECTIVE ACTION: Upload updated site map to CERS. Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2015
Citation:	Un-Specified
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes:	Returned to compliance on 08/13/2015.
Violation Division:	Contra Costa County Health Services Department
	UST
Violation Program:	
Violation Source:	CERS
Site ID:	
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-24-2013 USC 0.7 Multiple Continue - California Usath and Cafety Cada, Chanter
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Departmetion:	UST Program - Administration/Documentation - General
Violation Description: Violation Notes:	Returned to compliance on 06/04/2013.
	•
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-19-2016
Citation:	Un-Specified
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes:	Returned to compliance on 05/05/2016.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7,
	Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include
	violation description, proper statute and regulation citation in the
	"comment" section.
Violation Notes:	Returned to compliance on 10/12/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	09-01-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

16, Section(s) 2712(i) Failure to retain a copy of the permit to operate at the facility. Violation Description: Returned to compliance on 10/12/2017. Violation Notes: Violation Division: Contra Costa County Health Services Department Violation Program: UST CERS Violation Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 06-25-2015 Citation: **Un-Specified** UST Program - Operations/Maintenance - For use of Local Ordinance Violation Description: only. Violation Notes: Returned to compliance on 08/13/2015. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 05-01-2015 Citation: **Un-Specified** Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only Violation Notes: Returned to compliance on 05/19/2015. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Citation: Section(s) Multiple Hazardous Waste Generator Program - Operations/Maintenance - General Violation Description: Returned to compliance on 04/28/2017. Violation Notes: Contra Costa County Health Services Department Violation Division: Violation Program: HW Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Citation: Section(s) Multiple Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General Violation Notes: Returned to compliance on 09/21/2018. Violation Division: Contra Costa County Health Services Department Violation Program: HW Violation Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: 04-19-2016 Violation Date: Citation: **Un-Specified** UST Program - Administration/Documentation - For use of Local Violation Description: Ordinance only

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Violation Notes: Returned to compliance on 04/19/2016. Contra Costa County Health Services Department Violation Division: Violation Program: UST Violation Source: CERS Evaluation: Compliance Evaluation Inspection Eval General Type: 04-20-2015 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency Not reported Eval Notes: Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-20-2017 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency **Eval Notes:** Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HMRRP Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-20-2017 Violations Found: Yes Eval Type: Routine done by local agency **Eval Notes:** Not reported Contra Costa County Health Services Department Eval Division: Eval Program: нw Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 05-04-2018 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency **Eval Notes:** Not reported Contra Costa County Health Services Department Eval Division: Eval Program: UST Eval Source: CERS Eval General Type: Other/Unknown 05-30-2017 Eval Date: Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: HW Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-16-2014 Eval Date: Violations Found: No Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

	-)
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
•	-
Eval Source:	CERS
	Compliance Evoluction Increation
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
	-
Eval General Type:	Other/Unknown
Eval Date:	05-01-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
	0EN0
Eval General Type:	Other/Unknown
Eval Date:	06-25-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)			
Eval General Type:	Other/Unknown		
Eval Date:	06-25-2015		
Violations Found:	Yes		
Eval Type:	Other, not routine, done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	UST		
Eval Source:	CERS		
Eval General Type:	Other/Unknown		
Eval Date:	07-19-2018		
Violations Found:	Yes		
Eval Type:	Other, not routine, done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	UST		
Eval Source:	CERS		
Eval General Type:	Other/Unknown		
Eval Date:	09-01-2017		
Violations Found:	Yes		
Eval Type:	Other, not routine, done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	UST		
Eval Source:	CERS		
Eval General Type:	Other/Unknown		
Eval Date:	01-25-2018		
Violations Found:	No		
Eval Type:	Other, not routine, done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	UST		
Eval Source:	CERS		
Eval General Type:	Compliance Evaluation Inspection		
Eval Date:	04-16-2014		
Violations Found:	Yes		
Eval Type:	Routine done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	UST		
Eval Source:	CERS		
Eval General Type:	Compliance Evaluation Inspection		
Eval Date:	04-20-2015		
Violations Found:	Yes		
Eval Type:	Routine done by local agency		
Eval Notes:	Not reported		
Eval Division:	Contra Costa County Health Services Department		
Eval Program:	HMRRP		
Eval Source:	CERS		
Eval General Type:	Other/Unknown		
Eval Date:	05-06-2016		
Violations Found:	No		

EDR ID Number Database(s)

EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continue	d)
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-25-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program: Eval Source:	HMRRP CERS
Fuel O an and Tar	
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015 No
Violations Found: Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Eval Program: UST Eval Source: CERS Eval General Type: Other/Unknown Eval Date: 06-24-2014 Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Other/Unknown Eval General Type: Eval Date: 08-13-2015 Violations Found: No Eval Type: Other, not routine, done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: UST CERS Eval Source: Enforcement Action: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-16-2014 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-19-2016 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 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

Database(s) EPA ID N

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Division: Contra Costa County Health Services Department Enf Action Program: APSA Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 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: Contra Costa County Health Services Department Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 04-20-2017 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: HW Enf Action Source: CERS Site ID: 163317

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Site Name: TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY Site Address: Site City: BRENTWOOD 94513 Site Zip: Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-24-2013 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: Contra Costa County Health Services Department UST Enf Action Program: Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 05-01-2015 Enf Action Date: 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 Contra Costa County Health Services Department Enf Action Division: UST Enf Action Program: CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 05-04-2018 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 06-25-2015

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 07-19-2018 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 09-01-2017 Notice of Violation (Unified Program) Enf Action Type: Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Enf Action Division: Contra Costa County Health Services Department UST Enf Action Program: Enf Action Source: CERS Coordinates: Site ID: 163317 TRI CITY AUTO PLAZA INC Facility Name: Env Int Type Code: HWG Program ID: 10018531 Coord Name: Not reported Ref Point Type Desc: Unknown 37.961565 Latitude: Longitude: -121.724755 Affiliation: **CUPA** District Affiliation Type Desc: Entity Name: Contra Costa County Health Services Department Entity Title: Not reported 4585 Pacheco BlvdSuite 100 Affiliation Address: Affiliation City: Martinez Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 94553 Affiliation Phone: (925) 335-3200 Affiliation Type Desc: Facility Mailing Address Entity Name: Mailing Address

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Not reported 6935 Lone tree way Brentwood, CA CA Not reported 94513 Not reported Identification Signer Monang gorlorwulu Not reported Legal Owner Igor Pashover Not reported 6935 Lone Tree way Brentwood

Brentwood CA United States 94513 (925) 513-7305

Parent Corporation Chevron Extra Mile Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Property Owner Igor Pashover Not reported 6935 Lone tree way Brentwood, CA United States 94513 (925) 513-7305

UST Tank Operator IGOR PASKHOVER Not reported 6935 lone tree way brentwood CA United States 94513 (925) 513-7305

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country:

Document Preparer Monang gorlorwulu Not reported UST Permit Applicant igor paskhover owner Not reported Not reported Not reported Not reported Not reported (925) 513-7305 **UST Tank Owner IGOR PASKHOVER** Not reported 6935 lone tree way brentwood CA **United States** 94513 (925) 513-7305 **Environmental Contact** Monang Gorlorwulu Not reported 6935 Lone tree way

Brentwood, CA Not reported 94513 (925) 513-7305

Operator Tri city Auto Plaza inc Not reported Not reported Not reported Not reported Not reported Not reported (925) 513-7305

UST Property Owner Name Igor Paskhover Not reported 6935 lone tree way brentwood CA United States

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued) S121748583 Affiliation Zip: 94513 Affiliation Phone: (925) 513-7305 CERS TANKS: 163317 Site ID: CERS ID: 10018531 **CERS** Description: **Chemical Storage Facilities** Violations: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-20-2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Citation: Section(s) Multiple Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General Returned to compliance on 05/26/2017. Violation Notes: Violation Division: Contra Costa County Health Services Department Violation Program: HW CERS Violation Source: Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Violation Date: 05-04-2018 Citation: HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e) Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring. OBSERVATION: Owner/Operator did not maintain the interstitial space Violation Notes: under constant vacuum, pressure, or hydrostatic monitoring such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment. The facility has active L10 (diesel STP - brine) and S9 (diesel-91 vac annular) alarms. Diesel STP sump was reported to be empty of brine by UST technician who performed monitoring certification on 4/19/18. CORRECTIVE ACTION: Maintain the interstitial space so that constant vacuum, pressure, or hydrostatic monitoring occurs. Obtain a permit and perform required repairs. Submit verification. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS 163317 Site ID: Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-20-2015 HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Citation: Section(s) Multiple Violation Description: Business Plan Program - Administration/Documentation - General Violation Notes: Returned to compliance on 04/20/2015. Violation Division: Contra Costa County Health Services Department Violation Program: HMRRP Violation Source: CERS

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC	(Continued) S12174
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,
	Section(s) Multiple
Violation Description:	Business Plan Program - Training - General
Violation Notes:	Returned to compliance on 05/26/2017. OBSERVATION: Gas station
	employees have not received training on carbon dioxide and propane.
	Express Lube employees have not received annual documented training on
	hazardous materials/emergency response. CORRECTIVE ACTION: Train
	employees and submit documentation to CCHS HMP.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HMRRP
Violation Source:	CERS
Violation Cource.	OENO
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	07-19-2018
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7,
	Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but
	not limited to unpaid permit fees.
Violation Notes:	Not reported
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-16-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter
	6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/06/2014.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2015
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67,
	Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 06/29/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	APSA
Violation Source:	CERS
violation Source.	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	09-01-2017
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7,
	Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include
	violation description, proper statute and regulation citation in the
	"comment" section.

Database(s) EPA

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

1	CITY AUTO PLAZA INC (Continued	(k)	S12174858
	Violation Notes:	Not reported	
	Violation Division:	Contra Costa County Health Services Department	
	Violation Program:	UST	
	Violation Source:	CERS	
	Site ID:	163317	
	Site Name:	TRI CITY AUTO PLAZA INC	
	Violation Date:	04-20-2017	
	Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95	5,
		Section(s) Multiple	
	Violation Description:	Business Plan Program - Administration/Documentation - General	
	Violation Notes:	Returned to compliance on 05/24/2017. OBSERVATION: The site m	ap is
		missing required elements including spill response equipment (fire	
		extinguishers, spill absorbent), oil changer hazardous materials	
		storage areas, evacuation area, loading area, propane and carbon	
		dioxide locations. CORRECTIVE ACTION: Upload updated site map	to CERS.
	Violation Division:	Contra Costa County Health Services Department	
	Violation Program:	HMRRP	
	Violation Source:	CERS	
	Site ID:		
	Site Name:	TRI CITY AUTO PLAZA INC	
	Violation Date:	04-20-2015	
	Citation: Violation Description:	Un-Specified	
	Violation Description.	UST Program - Operations/Maintenance - For use of Local Ordinance only.	,e
	Violation Notes:	Returned to compliance on 08/13/2015.	
	Violation Division:	Contra Costa County Health Services Department	
	Violation Program:	UST	
	Violation Source:	CERS	
	Site ID:	163317	
	Site Name:	TRI CITY AUTO PLAZA INC	
	Violation Date:	04-24-2013	
	Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chap	pter
		6.7, Section(s) Multiple Sections	
	Violation Description:	UST Program - Administration/Documentation - General	
	Violation Notes:	Returned to compliance on 06/04/2013.	
	Violation Division:	Contra Costa County Health Services Department	
	Violation Program:	UST	
	Violation Source:	CERS	
		400047	
	Site ID:		
	Site Name:	TRI CITY AUTO PLAZA INC	
	Violation Date:	04-19-2016	
	Citation:	Un-Specified UST Program - Operations/Maintenance - For use of Local Ordinance	
	Violation Description:	only.	e
	Violation Notes:	Returned to compliance on 05/05/2016.	
	Violation Division:	Contra Costa County Health Services Department	
	Violation Program:	UST	
	Violation Source:	CERS	
	Site ID:	163317	
	Site Name:	TRI CITY AUTO PLAZA INC	
	Violation Date:	04-20-2017	
	Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7,	

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC	(Continued) S12174
	Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include
	violation description, proper statute and regulation citation in the
	"comment" section.
Violation Notes:	Returned to compliance on 10/12/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	09-01-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter
Violation Description:	16, Section(s) 2712(i)
Violation Description: Violation Notes:	Failure to retain a copy of the permit to operate at the facility. Returned to compliance on 10/12/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
violation course.	OEKO
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	06-25-2015
Citation:	Un-Specified
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinance
	only.
Violation Notes:	Returned to compliance on 08/13/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	05-01-2015
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local
	Ordinance only
Violation Notes:	Returned to compliance on 05/19/2015.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	UST
Violation Source:	CERS
01. 15	
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Departmetion:	
Violation Description: Violation Notes:	Hazardous Waste Generator Program - Operations/Maintenance - General Returned to compliance on 04/28/2017.
Violation Division:	Contra Costa County Health Services Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Violation Date:	04-20-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Section(s) Multiple Hazardous Waste Generator Program - Operations/Maintenance - General Violation Description: Violation Notes: Returned to compliance on 09/21/2018. Violation Division: Contra Costa County Health Services Department Violation Program: HW CERS Violation Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Violation Date: 04-19-2016 **Un-Specified** Citation: Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only Violation Notes: Returned to compliance on 04/19/2016. Violation Division: Contra Costa County Health Services Department Violation Program: UST Violation Source: CERS Evaluation: Eval General Type: **Compliance Evaluation Inspection** 04-20-2015 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency **Eval Notes:** Not reported Eval Division: Contra Costa County Health Services Department Eval Program: UST Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-20-2017 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency **Eval Notes:** Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HMRRP CERS Eval Source: Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-20-2017 Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HW Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 05-04-2018 Eval Date: Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department UST Eval Program: Eval Source: CERS Eval General Type: Other/Unknown Eval Date: 05-30-2017

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)		
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HW	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-16-2014	
Violations Found:	No	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HW	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-19-2016	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2015	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	APSA	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-20-2017	
Violations Found:	No	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	APSA	
Eval Source:	CERS	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-24-2013	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	05-01-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued)		
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	06-25-2015	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	07-19-2018	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program:	UST	
Eval Source:	CERS	
Eval General Type:	Other/Unknown	
Eval Date:	09-01-2017	
Violations Found:	Yes	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program: Eval Source:	CERS	
Eval Source.	GERG	
Eval General Type:	Other/Unknown	
Eval Date:	01-25-2018	
Violations Found:	No	
Eval Type:	Other, not routine, done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program: Eval Source:	UST CERS	
Eval Source.	GERG	
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	04-16-2014	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes:	Not reported	
Eval Division:	Contra Costa County Health Services Department	
Eval Program: Eval Source:	UST CERS	
	ULNU	

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

CITY AUTO PLAZA INC (Continued	d)
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-06-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-30-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-25-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-24-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2015
Violations Found:	No

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

RICITY AUTO PLAZA INC (Contin	nued)
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-24-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Contra Costa County Health Services Department
Eval Program:	UST
Eval Source:	CERS
Enforcement Action:	
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Site Address:	6935 LONE TREE WAY
Site City:	BRENTWOOD
Site Zip:	94513
Enf Action Date:	04-16-2014
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:	Contra Costa County Health Services Department
Enf Action Program:	UST
Enf Action Source:	CERS
Site ID:	163317
Site Name:	TRI CITY AUTO PLAZA INC
Site Address:	6935 LONE TREE WAY
Site City:	BRENTWOOD
Site Zip:	94513
Enf Action Date:	04-19-2016
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:	Contra Costa County Health Services Department

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2015 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: Contra Costa County Health Services Department Enf Action Program: APSA Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-20-2015 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 Contra Costa County Health Services Department Enf Action Division: Enf Action Program: HMRRP Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 04-20-2015 Enf Action Date: Notice of Violation (Unified Program) Enf Action Type: Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Enf Action Division: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department Enf Action Program: HMRRP CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC

Database(s)

EDR ID Number **EPA ID Number**

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 Enf Action Date: 04-20-2017 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: Contra Costa County Health Services Department НW Enf Action Program: Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 04-20-2017 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 04-24-2013 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 05-01-2015 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY BRENTWOOD Site City: Site Zip: 94513 05-04-2018 Enf Action Date: Enf Action Type: Notice of Violation (Unified Program)

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

S121748583

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection Enf Action Notes: Not reported Contra Costa County Health Services Department Enf Action Division: Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 06-25-2015 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: Contra Costa County Health Services Department Enf Action Program: UST CERS Enf Action Source: Site ID: 163317 Site Name: TRI CITY AUTO PLAZA INC Site Address: 6935 LONE TREE WAY Site City: BRENTWOOD Site Zip: 94513 07-19-2018 Enf Action Date: 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Site ID: 163317 TRI CITY AUTO PLAZA INC Site Name: 6935 LONE TREE WAY Site Address: BRENTWOOD Site City: 94513 Site Zip: Enf Action Date: 09-01-2017 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: Contra Costa County Health Services Department Enf Action Program: UST Enf Action Source: CERS Coordinates: Site ID: 163317 Facility Name: TRI CITY AUTO PLAZA INC Env Int Type Code: HWG Program ID: 10018531 Coord Name: Not reported Ref Point Type Desc: Unknown 37.961565 Latitude: Longitude: -121.724755

Affiliation:

TC5631677.2s Page 66

EDR ID Number Database(s) EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: CUPA District Contra Costa County Health Services Department Not reported 4585 Pacheco BlvdSuite 100 Martinez CA Not reported 94553 (925) 335-3200 Facility Mailing Address Mailing Address Not reported

Not reported 6935 Lone tree way Brentwood, CA CA Not reported 94513 Not reported

Identification Signer Monang gorlorwulu Not reported Not reported

Legal Owner Igor Pashover Not reported 6935 Lone Tree way Brentwood CA United States 94513 (925) 513-7305

Parent Corporation Chevron Extra Mile Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Property Owner Igor Pashover Not reported 6935 Lone tree way Brentwood, CA United States

Database(s)

EDR ID Number EPA ID Number

TRI CITY AUTO PLAZA INC (Continued)

Affiliation Zip: Affiliation Phone: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: 94513 (925) 513-7305

UST Tank Operator IGOR PASKHOVER Not reported 6935 Ione tree way brentwood CA United States 94513 (925) 513-7305

Document Preparer Monang gorlorwulu Not reported Not reported Not reported Not reported Not reported Not reported Not reported

UST Permit Applicant igor paskhover owner Not reported Not reported Not reported Not reported Not reported (925) 513-7305

UST Tank Owner IGOR PASKHOVER Not reported 6935 Ione tree way brentwood CA United States 94513 (925) 513-7305

Environmental Contact Monang Gorlorwulu Not reported 6935 Lone tree way Brentwood, CA Not reported 94513 (925) 513-7305

Operator Tri city Auto Plaza inc Not reported Not reported

Database(s)

RCRA NonGen / NLR

EDR ID Number EPA ID Number

S121748583

1024819373

CAL000329240

Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:
Affiliation Type Desc:
Entity Name:
Entity Title:
Affiliation Address:
Affiliation City:
Affiliation State:
Affiliation Country:
Affiliation Zip:
Affiliation Phone:

Not reported Not reported Not reported (925) 513-7305 UST Property Owner Name Igor Paskhover Not reported 6935 Ione tree way brentwood CA

United States 94513 (925) 513-7305

A4 TRI CITY EXPRESS LUBE West 6935 LONE TREE WAY 1/8-1/4 BRENTWOOD, CA 94513

0.247 mi. 1306 ft.

Site 2 of 7 in cluster A

Relative: Higher	RCRA NonGen / NLR: Date form received by age	nnv: 01/31/2008
Actual:	Facility name:	TRI CITY EXPRESS LUBE
99 ft.	Facility address:	6935 LONE TREE WAY
	-	BRENTWOOD, CA 94513-5403
	EPA ID:	CAL000329240
	Contact:	MARC HETRICK GENERAL MANAGER
	Contact address:	6945 LONE TREE WAY RD
		BRENTWOOD, CA 94513
	Contact country:	Not reported
	Contact telephone:	925-513-7610
	Contact email:	AUTOSPAINC@SBCGLOBAL.NET
	EPA Region:	09
	Classification:	Non-Generator
	Description:	Handler: Non-Generators do not presently generate hazardous waste
	Owner/Operator Summary:	

Owner/Operator Summary: Owner/operator name: Owner/operator address:

Owner/operator country:

Owner/operator email:

Owner/Operator Type:

Owner/Op start date:

Owner/Op end date:

Owner/operator fax:

Legal status:

Owner/operator telephone:

Owner/operator extension:

6945 LONE TREE WAY RD BRENTWOOD, CA 94513 Not reported 925-513-7610 Not reported Not reported Other Operator Not reported Not reported BRENTWOOD AUTO SPA INC

MARC HETRICK GENERAL MANAGER

 Owner/operator name:
 BRENTWOOD AUTO SPA IN

 Owner/operator address:
 6935 LONE TREE WAY

 BRENTWOOD, CA 94513
 Owner/operator country:

Database(s)

EDR ID Number **EPA ID Number**

TRI CITY EXPRESS LUBE (Continued)

Owner/operator telephone:	925-513-7610
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:	
U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
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

Violation Status:

Mailing City:

Mailing State:

Mailing Zip:

No violations found

CAL000340540

A5 VIZ CLEANERS INC West 6935 LONE TREE WAY STE C 1/8-1/4 **BRENTWOOD, CA 94513** 0.247 mi.

1306 ft. Site 3 of 7 in cluster A

Relative: Higher Actual: 99 ft.	DRYCLEANERS: EPA Id: NAICS Code: NAICS Description: SIC Code: SIC Description: Create Date: Facility Active: Inactive Date: Facility Addr2: Owner Name: Owner Address:
	Owner Telephone:
	Contact Name:
	Contact Address:
	Contact Address 2:
	Contact Telephone:
	Mailing Name:
	Mailing Address 1:
	Mailing Address 2:

81232 Drycleaning and Laundry Services (except Coin-Operated) 7211 Power Laundries, Family and Commercial 02/13/2009 Yes Not reported Not reported ZALMAN EZROS 1560 CRISPIN DR Not reported 9253548709 ZALMAN EZROS 1560 CRISPIN DR Not reported 9253548709 Not reported 6835 LONE TREE WAY #C Not reported BRENTWOOD CA 945130000

DRYCLEANERS S109520981 N/A

Map ID	N	IAP FINDINGS	
Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	VIZ CLEANERS INC (Continued) Owner Fax: Not reported Region Code: 3		S109520981
A6 West 1/8-1/4 0.247 mi. 1306 ft.	TRI CITY AUTO PLAZA INC 6935 LONE TREE WY BRENTWOOD, CA 94513 Site 4 of 7 in cluster A	EMI CONTRA COSTA CO. SITE LIST	S107591789 N/A
Relative:	EMI:		
Higher	Year:	2008	
Actual: 99 ft.	County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers and Smllr Tons/Y Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers and Smllr Tons/Y	7 SF 19015 BA 7216 BAY AREA AQMD Not reported .32 .128 0 0 0 0 0 0 0 7 SF 19015 BA 7216 BAY AREA AQMD Not reported Not reported Not reported 0.320000000000001 0.128 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Year:	2010	
	County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr:	7 SF 19015 BA 7216 BAY AREA AQMD Not reported Not reported 0.320000000000001 0.128 0 0	

A7

West

1/8-1/4

0.247 mi. 1306 ft.

Relative:

Higher

Actual:

99 ft.

BRENTWOOD, CA 94513

Site 5 of 7 in cluster A

Site ID:

CERS ID:

CERS HAZ WASTE:

CERS Description:

TRI CITY AUTO PLAZA INC (Continued)

Particulate Matter Tons/Yr:

MAP FINDINGS

0

Database(s)

EDR ID Number **EPA ID Number**

CLEANERS	ITE C	CERS HAZ WASTE CERS	S121749
	110000		
Region: Cupa Number:	CONTRA COSTA 773933		
Program/Elements:	HWG: REPORTED ZERO		
Program Status:	CONTRA COSTA CO. SITE LIST		
Billing Status:	ACTIVE, BILLABLE		
Facility ID:	FA0030602		
Cupa Number:	773933		
Region:	CONTRA COSTA		
Program/Elements:	HMBP: LESS THAN 1000 LBS		
Program Status:	CONTRA COSTA CO. SITE LIST		
Billing Status:	ACTIVE, BILLABLE		
Facility ID:	FA0030602		
Cupa Number:	773602		
Region:	CONTRA COSTA		
Program/Elements:	UNDERGROUND STORAGE TANK SITE		
Program Status:	CONTRA COSTA CO. SITE LIST		
Billing Status:	ACTIVE, BILLABLE		
Facility ID:	FA0030271		
oupa number.	113002		
Region: Cupa Number:	CONTRA COSTA 773602		
Program/Elements:	HWG: 50 - <250 TONS/YEAR		
Program Status:	CONTRA COSTA CO. SITE LIST		
Billing Status:	ACTIVE, BILLABLE		
Facility ID:	FA0030271		
Cupa Number:	773602		
Region:	CONTRA COSTA		
Program/Elements:	HMBP: >250K-500K LBS, 0-19 EMPLOYEES		
Billing Status: Program Status:	ACTIVE, BILLABLE CONTRA COSTA CO. SITE LIST		
Facility ID:	FA0030271		
Cupa Number:	773602		
Region:	CONTRA COSTA		
Program/Elements:	APSA: <10K GALLONS		
Program Status:	CONTRA COSTA CO. SITE LIST		
Facility ID: Billing Status:	FA0030271 ACTIVE, BILLABLE		
Easility (ID)	TE LIST:		

169514

10019524

Hazardous Waste Generator

S107591789

Database(s) EPA ID N

EDR ID Number EPA ID Number

VIZ CLEANERS (Continued)

Enf Action Date:

S121749524

Violations: Site ID: 169514 VIZ CLEANERS Site Name: Violation Date: 05-20-2014 Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple Business Plan Program - Administration/Documentation - General Violation Description: Returned to compliance on 05/20/2014. Violation Notes: Violation Division: Contra Costa County Health Services Department Violation Program: HMRRP Violation Source: CERS Evaluation: Eval General Type: **Compliance Evaluation Inspection** Eval Date: 05-20-2014 Violations Found: Yes Eval Type: Routine done by local agency Eval Notes: Not reported Contra Costa County Health Services Department Eval Division: Eval Program: HMRRP Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 05-20-2014 Eval Date: Violations Found: No Eval Type: Routine done by local agency **Eval Notes:** Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HW Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-12-2017 Violations Found: No Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HMRRP Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-12-2017 Violations Found: No Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HW Eval Source: CERS **Enforcement Action:** Site ID: 169514 Site Name: VIZ CLEANERS Site Address: 6935 LONE TREE WAY SUITE C Site City: BRENTWOOD Site Zip: 94513

05-20-2014

EDR ID Number Database(s) EPA ID Number

VIZ CLEANERS (Continued)

S121749524

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: Contra Costa County Health Services Department Enf Action Program: HMRRP CERS Enf Action Source: Affiliation: Affiliation Type Desc: Identification Signer Entity Name: zalman ezros Entity Title: owner Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Not reported Affiliation Country: Not reported Affiliation Zip: Affiliation Phone: Not reported Affiliation Type Desc: Operator ZÁLMAN EZROS Entity Name: Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Not reported Affiliation Country: Affiliation Zip: Not reported Affiliation Phone: (925) 354-8709 Affiliation Type Desc: Parent Corporation VIZ DRY CLEANERS Entity Name: 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 **Document Preparer** Affiliation Type Desc: Entity Name: ZALMAN EZROS Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Not reported Affiliation State: Affiliation Country: Not reported Affiliation Zip: Not reported Affiliation Phone: Not reported Affiliation Type Desc: Legal Owner ZALMAN EZROS Entity Name: Entity Title: Not reported Affiliation Address: zal5555@yahoo.com Affiliation City: BRENTWOOD Affiliation State: CA United States Affiliation Country: Affiliation Zip: 94513 (925) 513-3277 Affiliation Phone:

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

VIZ CLEANERS (Continued)

S121749524

IZ CLEANERS (Continued)	:	S
Affiliation Type Desc: Entity Name:	Environmental Contact ZALMAN EZROS	
Entity Title: Affiliation Address:	Not reported 6935 lone tree way suite C	
Affiliation City:	BRENTWOOD	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip: Affiliation Phone:	94513	
Anniation Phone.	(925) 354-8709	
Affiliation Type Desc:	Facility Mailing Address	
Entity Name:	Mailing Address	
Entity Title: Affiliation Address:	Not reported 6935 lone tree way suite C	
Affiliation City:	bremtwood	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	94513 National state	
Affiliation Phone:	Not reported	
Affiliation Type Desc:	CUPA District	
Entity Name:	Contra Costa County Health Services Department	
Entity Title:	Not reported	
Affiliation Address: Affiliation City:	4585 Pacheco BlvdSuite 100 Martinez	
Affiliation State:	CA	
Affiliation Country:	Not reported	
Affiliation Zip:	94553	
Affiliation Phone:	(925) 335-3200	
CERS TANKS:		
Site ID:	169514	
CERS ID:	10019524	
CERS Description:	Chemical Storage Facilities	
Violations:		
Site ID:	169514	
Site Name: Violation Date:	VIZ CLEANERS 05-20-2014	
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,	,
	Section(s) Multiple	
Violation Description:	Business Plan Program - Administration/Documentation - General	
Violation Notes:	Returned to compliance on 05/20/2014.	
Violation Division: Violation Program:	Contra Costa County Health Services Department HMRRP	
Violation Source:	CERS	
Evaluation:		
Eval General Type:	Compliance Evaluation Inspection	
Eval Date:	05-20-2014	
Violations Found:	Yes	
Eval Type:	Routine done by local agency	
Eval Notes: Eval Division:	Not reported Contra Costa County Health Services Department	
Eval Program:	HMRRP	
Eval Source:	CERS	

Database(s)

EDR ID Number **EPA ID Number**

VIZ CLEANERS (Continued)

S121749524

Eval General Type: **Compliance Evaluation Inspection** 05-20-2014 Eval Date: Violations Found: No Routine done by local agency Eval Type: Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HW Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** Eval Date: 04-12-2017 Violations Found: No Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HMRRP Eval Source: CERS Eval General Type: **Compliance Evaluation Inspection** 04-12-2017 Eval Date: Violations Found: No Eval Type: Routine done by local agency Eval Notes: Not reported Eval Division: Contra Costa County Health Services Department Eval Program: HW Eval Source: CERS Enforcement Action: Site ID: 169514 Site Name: VIZ CLEANERS Site Address: 6935 LONE TREE WAY SUITE C Site City: BRENTWOOD Site Zip: 94513 Enf Action Date: 05-20-2014 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: Contra Costa County Health Services Department HMRRP Enf Action Program: Enf Action Source: CERS Affiliation: Affiliation Type Desc: Identification Signer Entity Name: zalman ezros Entity Title: owner 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: Operator Entity Name: ZALMAN EZROS Entity Title: Not reported Affiliation Address: Not reported

Database(s)

EDR ID Number EPA ID Number

VIZ CLEANERS (Continued)

Affiliation City: Not reported Not reported Affiliation State: Affiliation Country: Not reported Affiliation Zip: Not reported (925) 354-8709 Affiliation Phone: Parent Corporation Affiliation Type Desc: Entity Name: VIZ DRY CLEANERS 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: **Document Preparer** ZALMAN EZROS Entity Name: 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: Legal Owner Entity Name: ZALMAN EZROS Entity Title: Not reported Affiliation Address: zal5555@yahoo.com BRENTWOOD Affiliation City: Affiliation State: CA Affiliation Country: United States Affiliation Zip: 94513 Affiliation Phone: (925) 513-3277 Affiliation Type Desc: **Environmental Contact** Entity Name: ZALMAN EZROS Entity Title: Not reported Affiliation Address: 6935 lone tree way suite C BRENTWOOD Affiliation City: Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 94513 Affiliation Phone: (925) 354-8709 Affiliation Type Desc: Facility Mailing Address Entity Name: Mailing Address Entity Title: Not reported Affiliation Address: 6935 lone tree way suite C Affiliation City: bremtwood Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 94513 Affiliation Phone: Not reported Affiliation Type Desc: **CUPA** District

Map ID	
Direction	
Distance	
Elevation	Site

EDR ID Number EPA ID Number

S121749524

Database(s)

VIZ CLEANERS (Continued)

Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone: Contra Costa County Health Services Department Not reported 4585 Pacheco BlvdSuite 100 Martinez CA Not reported 94553 (925) 335-3200

A8 West 1/8-1/4 0.247 mi.	TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY BRENTWOOD, CA 94513		UST	U004261569 N/A
1306 ft.	Site 6 of 7 in cluster A			
Relative: Higher Actual: 99 ft.	Permitting Agency: C Latitude: 3	17-000-773602 Contra Costa County Health Services Department 17.961463 121.724617		
A9 West 1/8-1/4 0.247 mi. 1306 ft.	TRI CITY AUTO PLAZA INC 6935 LONE TREE WAY BRENTWOOD, CA 94513 Site 7 of 7 in cluster A		AST	A100425404 N/A
Relative: Higher Actual: 99 ft.	AST: Certified Unified Program Agenc Owner: Total Gallons: CERSID: Facility ID: Business Name: Phone: Fax: Mailing Address: Mailing Address City: Mailing Address State: Mailing Address State: Mailing Address State: Operator Name: Operator Phone: Owner Phone: Owner Phone: Owner State: Owner State: Owner State: Owner Country: Property Owner Name: Property Owner Name: Property Owner Mailing Address Property Owner City: Property Owner Stat : Property Owner Stat : Property Owner Zip Code: Property Owner Zip Code: Property Owner Zip Code: Property Owner Zip Code: Property Owner Country: EPAID:	Igor Pashover Not reported 10018531 07-000-773602 Chevron Extra Mile 925-513-7305 925-513-7304 6935 Lone tree way Brentwood, CA CA 94513 Tri city Auto Plaza inc 925-513-7305 925-513-7305 6935 Lone Tree way CA 94513 United States Igor Pashover 925-513-7305		

TC5631677.2s Page 78

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

B10	DUTRA, LEROY	ENVIROSTOR S101580840
ESE	SMITH LN	SCH N/A
1/4-1/2	BRENTWOOD, CA 94513	SWEEPS UST
0.459 mi. 2425 ft.	Site 1 of 2 in cluster B	CA FID UST CONTRA COSTA CO. SITE LIST
Relative:		CERS
Lower	ENVIROSTOR:	
Actual:	Facility ID:	60000916
81 ft.	Status:	Inactive - Action Required
	Status Date: Site Code:	12/16/2011 204222
	Site Type:	School Cleanup
	Site Type Detailed:	School
	Acres:	18.93
	NPL:	NO
	Regulatory Agencies:	SMBRP
	Lead Agency:	SMBRP
	Program Manager:	Jose Luevano
	Supervisor:	Juan Koponen
	Division Branch:	Northern California Schools & Santa Susana
	Assembly:	11 07
	Senate: Special Program:	EPA - Target Site Investigation
	Restricted Use:	NO
	Site Mgmt Req:	NONE SPECIFIED
	Funding:	School District
	Latitude:	37.95865
	Longitude:	-121.7105
	APN:	018-100-033-2, 018-100-040-7, 018-100-041-5, 018100040
	Past Use:	AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, FUEL - VEHICLE
	Detential COC:	STORAGE/ REFUELING
	Potential COC:	Under Investigation Arsenic Benzene Chlordane DDD DDE DDT Lead Toxaphene TPH-diesel TPH-gas
	Confirmed COC:	Under Investigation
	Potential Description:	SOIL
	Alias Name:	Proposed Fourth Middle School Site
	Alias Type:	Alternate Name
	Alias Name:	018-100-033-2
	Alias Type:	APN
	Alias Name:	018-100-040-7
	Alias Type:	APN 018 400 044 5
	Alias Name:	018-100-041-5 APN
	Alias Type: Alias Name:	018100040
	Alias Type:	APN
	Alias Name:	204222
	Alias Type:	Project Code (Site Code)
	Alias Name:	60000916
	Alias Type:	Envirostor ID Number
	Completed Info:	
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Na	•
	Completed Document Ty	
	Completed Date:	04/06/2009 Not reported
	Comments:	Not reported
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Na	

Database(s) EPA ID N

EDR ID Number EPA ID Number

S101580840

DUTRA, LEROY (Continued)

<pre>FRA, LEROY (Continued)</pre>	
Completed Document Type: Completed Date: Comments:	Environmental Oversight Agreement 06/16/2008 DTSC fully executed the EOA. One original mailed to the District and the other maintained in the project file. DA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	01/07/2011
Comments:	Work Order issued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	10/18/2010
Comments:	CFA fully executed.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Site Inspections/Visit (Non LUR) 01/10/2011 DTSC PM and consultant (Stuart StClair, URS) conducted site visit. Met on-site by District representative (Barbara Tittle)
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	12/14/2011
Comments:	Inactive status notice mailed out 12/14/2011
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/31/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/27/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/12/2008
Comments:	Phase I ESA submitted as background information for a PEAR site.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Preliminary Endangerment Assessment Report 02/10/2009 DTSC concurred and approved the PEA with a further action determination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

Database(s)

EDR ID Number EPA ID Number

DUTRA, LEROY (Continued)

OTRA, LEROT (Continued)	
Completed Document Type:	4.14 Request
Completed Date:	04/01/2009
Comments:	DTSC approved Form SFPD 4.14.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Supplemental Site Investigation Workplan 02/23/2011 DTSC approved the SSI Workplan for implementation. Field work is scheduled for Feb 28 amd Mar 1, 2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	02/28/2011
Comments:	DTSC provided SSI fieldwork oversight.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	05/16/2011
Comments:	DTSC approved the SSI Report with a further action determination.
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:	60000916
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18.93
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jose Luevano
Supervisor:	Juan Koponen
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204222
Assembly:	11
Senate:	07
Special Program Status:	EPA - Target Site Investigation
Status:	Inactive - Action Required
Status Date:	12/16/2011
Restricted Use:	NO
Funding:	School District
Latitude:	37.95865
Longitude:	-121.7105

DUTRA, LEROY (Continued)

01	RA, LEROT (Continued)		31013000
	APN:	018-100-033-2, 018-100-040-7, 018-100-041-5, 018100040	
	Past Use:	AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, FUEL - STORAGE/ REFUELING	VEHICLE
	Potential COC:	Under Investigation, Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Lead, Toxaphene, TPH-diesel, TPH-gas	
	Confirmed COC:	Under Investigation	
		5	
	Potential Description:	SOIL Dranged Fourth Middle School Site	
	Alias Name:	Proposed Fourth Middle School Site	
	Alias Type: Alias Name:	Alternate Name 018-100-033-2	
		APN	
	Alias Type:	018-100-040-7	
	Alias Name: Alias Type:	APN	
	Alias Name:	018-100-041-5	
	Alias Type:	APN	
	Alias Name:	018100040	
	Alias Type:	APN	
	Alias Name:	204222	
	Alias Type:	Project Code (Site Code)	
	Alias Name:	60000916	
	Alias Type:	Envirostor ID Number	
~			
С	ompleted Info:		
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:	School Cleanup Agreement	
	Completed Date:	04/06/2009	
	Comments:	Not reported	
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:	Environmental Oversight Agreement	
	Completed Date:	06/16/2008	
	Comments:	DTSC fully executed the EOA. One original mailed to the District and the other maintained in the project file. DA	
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:	State/Federal Funded Site Work Order	
	Completed Date:	01/07/2011	
	Comments:	Work Order issued.	
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:		
	Completed Date:	10/18/2010	
	Comments:	CFA fully executed.	
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:	Site Inspections/Visit (Non LUR)	
	Completed Date:	01/10/2011	
	Comments:	DTSC PM and consultant (Stuart StClair, URS) conducted site visit.	
		Met on-site by District representative (Barbara Tittle)	
	Completed Area Name:	PROJECT WIDE	
	Completed Sub Area Name:	Not reported	
	Completed Document Type:	Inactive Status Letter	

Database(s)

EDR ID Number EPA ID Number

S101580840

DUTRA, LEROY (Continued)

Completed Date:	12/14/2011
Comments:	Inactive status notice mailed out 12/14/2011
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/31/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/27/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/12/2008
Comments:	Phase I ESA submitted as background information for a PEAR site.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Preliminary Endangerment Assessment Report 02/10/2009 DTSC concurred and approved the PEA with a further action determination.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.14 Request
Completed Date:	04/01/2009
Comments:	DTSC approved Form SFPD 4.14.
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Supplemental Site Investigation Workplan 02/23/2011 DTSC approved the SSI Workplan for implementation. Field work is scheduled for Feb 28 amd Mar 1, 2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	02/28/2011
Comments:	DTSC provided SSI fieldwork oversight.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	05/16/2011
Comments:	DTSC approved the SSI Report with a further action determination.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

Database(s)

EDR ID Number EPA ID Number

DUTRA, LEROY (Continued)

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

SWEEPS UST:

Status:	Not reported
Comp Number:	30096
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	07-000-030096-000001
Tank Status:	Not reported
Capacity:	300
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	07000800
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4156341795
Mail To:	Not reported
Mailing Address:	SMITH LN
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BRENTWOOD 94513
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

CONTRA COSTA CO. SITE LIST:

Facility ID:
Billing Status:
Program Status:
Program/Elements:
Region:
Cupa Number:

FA0032036
INACTIVE, NON-BILLABLE
CONTRA COSTA CO. SITE LIST
UNDERGROUND STORAGE TANK SITE
CONTRA COSTA
730096

CERS TANKS:	
Site ID:	
CERS ID:	
CERS Description:	

341860 60000916 School Cleanup

Database(s)

EDR ID Number EPA ID Number

S101580840

DUTRA, LEROY (Continued)

Affiliation: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation Country: Affiliation Country: Affiliation Zip: Affiliation Phone:

> Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

2340 SMITH ROAD

BRENTWOOD, CA 95413

PROPOSED FOURTH MIDDLE SCHOOL SITE

Supervisor JUAN KOPONEN Not reported Not reported Not reported Not reported Not reported Not reported Lead Project Manager JOSE LUEVANO Not reported Not reported SACRAMENTO CA

Not reported

Not reported

Not reported

US BROWNFIELDS 1023620470 FINDS N/A

1/4-1/2 0.459 mi. 2425 ft. Relative:

Lower

Actual:

81 ft.

B11 ESE

> Site 2 of 2 in cluster B **US BROWNFIELDS:** Property Name: Recipient Name: Grant Type: Property Number: Parcel size: Latitude: Longitude: HCM Label: Map Scale: Point of Reference: Highlights: Datum: Acres Property ID: IC Data Access: Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: Cleanup Funding Entity:

PROPOSED FOURTH MIDDLE SCHOOL SITE California Department of Toxic Substances Control Section 128(a) State/Tribal 018-100-041-5 018-100-040-7 018-100-033-2 18.93 37.958653 -121.710572 Address Matching-House Number Not reported Entrance Point of a Facility or Station Not reported North American Datum of 1983 133703 Not reported 40000 State/Tribal Funding (non-section 128(a)) Not reported Not reported Not reported Not reported DTSC via 128a grnt Not reported

Database(s)

EDR ID Number **EPA ID Number**

PROPOSED FOURTH MIDDLE SCHOOL SITE (Continued)

Grant Type: Accomplishment Type: Accomplishment Count: Cooperative Agreement Number: Start Date: **Ownership Entity:** Completion Date: Current Owner: Did Owner Change: **Cleanup Required:** Video Available: Photo Available: Institutional Controls Required: IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID: State/tribal NFA date: Air contaminated: Air cleaned: Asbestos found: Asbestos cleaned: Controled substance found: Controled substance cleaned: Drinking water affected: Drinking water cleaned: Groundwater affected: Groundwater cleaned: Lead contaminant found: Lead cleaned up: No media affected: Unknown media affected: Other cleaned up: Other metals found: Other metals cleaned: Other contaminants found: Other contams found description: PAHs found: PAHs cleaned up: PCBs found: PCBs cleaned up: Petro products found: Petro products cleaned: Sediments found: Sediments cleaned: Soil affected: Soil cleaned up: Surface water cleaned: VOCs found: VOCs cleaned: Cleanup other description: Num. of cleanup and re-dev. jobs: Past use greenspace acreage:

N/A Supplemental Assessment 0 00T14502 01/06/2011 00:00:00 Government 04/30/2011 00:00:00 Brentwood Union Elementary School District Ν Y Not reported Y Ν Not reported Not reported Not reported Not reported Not reported Not reported 10/18/2010 00:00:00 204222-83 Not reported γ OCPchlordane Not reported Not reported

1023620470

10.31

Not reported

Database(s)

EDR ID Number EPA ID Number

1023620470

PROPOSED FOURTH MIDDLE SCHOOL SITE (Continued)

Past use residential acreage: Surface Water: Past use commercial acreage: Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: Future use industrial acreage: Greenspace acreage and type: Superfund Fed. landowner flag: Arsenic cleaned up: Cadmium cleaned up: Chromium cleaned up: Copper cleaned up: Iron cleaned up: mercury cleaned up: Nickel Cleaned Up: No clean up: Pesticides cleaned up: Selenium cleaned up: SVOCs cleaned up: Unknown clean up: Arsenic contaminant found: Cadmium contaminant found: Chromium contaminant found: Copper contaminant found: Iron contaminant found: Mercury contaminant found: Nickel contaminant found: No contaminant found: Pesticides contaminant found: Selenium contaminant found: SVOCs contaminant found: Unknown contaminant found: Future Use: Multistory Media affected Bluiding Material: Media affected indoor air: Building material media cleaned up: Indoor air media cleaned up: Unknown media cleaned up: Past Use: Multistory Property Description: Below Poverty Number: Below Poverty Percent: Meidan Income: Meidan Income Number:

8.62 Not reported Not reported 10.31 8.62 Not reported Not reported Ν Not reported Site consists of APNs: 018-100-033-23.10-ac, 5-build & ag-land -040-7 7,21-ac, 3 build 500 gal gas UST/250 gal diesel AST, & ag -041-5 8.69-ac ag. AG since 1939. See attachment for more details. 146 7.6% 1814 318 16.5% 32 5.5% 79 4.1%

FINDS:

Registry ID:

Meidan Income Percent:

Vacant Housing Number:

Vacant Housing Percent:

Unemployed Number:

Unemployed Percent:

110070068534

Map ID Direction Distance Elevation Site MAP FINDINGS

EDR ID Number Database(s) **EPA ID Number**

1023620470

PROPOSED FOURTH MIDDLE SCHOOL SITE (Continued)

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

> ENVIROSTOR S105628389 SCH N/A CERS

12 West 1/2-1 0.513 mi. 2707 ft.	LA PALOMA 6651 LONE TREE WAY BRENTWOOD, CA 94513	
Relative: Higher Actual: 103 ft.	ENVIROSTOR: Facility ID: Status: Status Date: Site Code: Site Type: Site Type Detailed: Acres: NPL: Regulatory Agencies: Lead Agency: Program Manager: Supervisor: Division Branch: Assembly: Senate: Special Program: Restricted Use: Site Mgmt Req: Funding: Latitude: Longitude: APN: Past Use: Potential COC: Confirmed COC: Potential Description: Alias Name: Alias Type:	7010008 No Further Action 09/09/2004 204056 School Investigation School 5.65 NO SMBRP SMBRP Kamili Siglowide Mark Malinowski Northern California Schools & Santa Susana 11 07 Not reported NO NONE SPECIFIED School District 37.96115 -121.7299 019050040 AGRICULTURAL - ROW CROPS Toxaphene 30023-NO No Contaminants found SOIL Not reported Not reported
	Completed Info: Completed Area Name: Completed Sub Area Nai Completed Document Ty Completed Date: Comments: Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Schedule Area Name: Schedule Sub Area Name	pe: Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

LA PALOMA (Continued)

Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	7010008
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.65
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Kamili Siglowide
Supervisor:	Mark Malinowski
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204056
Assembly:	11
Senate:	07
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	09/09/2004
Restricted Use:	NO
Funding:	School District
Latitude:	37.96115
Longitude:	-121.7299
APN:	019050040
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Toxaphene
Confirmed COC:	30023-NO, No Contaminants found
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported
Completed Info:	
Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported
CERS TANKS:	
Site ID:	339145
CERS ID:	07010008
CERS Description:	School Investigation

13

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

LA PALOMA (Continued)

Affiliation: Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

EMPIRE ACRES LLC

Lead Project Manager KAMILI SIGLOWIDE Not reported Not reported SACRAMENTO CA Not reported Not reported Not reported

Supervisor MARK MALINOWSKI Not reported Not reported Not reported Not reported Not reported Not reported Not reported

ENVIROSTOR S121018194

WNW 1/2-1 0.694 mi. 3665 ft.	2700 EMPIRE AVENUE BRENTWOOD, CA 94513	VCP N/A HAZNET NPDES CIWQS
Relative:	ENVIROSTOR:	
Higher	Facility ID:	60002665
Actual:	Status:	No Further Action
104 ft.	Status Date:	07/18/2018
	Site Code:	202187
	Site Type:	Voluntary Cleanup
	Site Type Detailed:	Voluntary Cleanup
	Acres:	8
	NPL:	NO
	Regulatory Agencies:	SMBRP
	Lead Agency:	SMBRP
	Program Manager:	Parag Shah
	Supervisor:	Daniel Murphy
	Division Branch:	Cleanup Berkeley
	Assembly:	, 11
	Senate:	, 07
	Special Program:	Voluntary Cleanup Program
	Restricted Use:	NO
	Site Mgmt Req:	NONE SPECIFIED
	Funding:	Responsible Party
	Latitude:	37.95562
	Longitude:	-121.7324
	APN:	NONE SPECIFIED
	Past Use:	AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
	Potential COC:	Chlordane DDT Heptachlor epoxide
	Confirmed COC:	Chlordane DDT Heptachlor epoxide
	Potential Description:	SOIL
	Alias Name:	202187

Database(s)

EDR ID Number EPA ID Number

EMPIRE ACRES LLC (Continued)			
Alias Type:	Project Code (Site Code)		
Alias Name:	60002665		
Alias Type:	Envirostor ID Number		
Completed Info: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Voluntary Cleanup Agreement 06/18/2018 final draft		
Completed Area Name:	PROJECT WIDE		
Completed Sub Area Name:	Not reported		
Completed Document Type:	No Further Action Letter		
Completed Date:	07/18/2018		
Comments:	No Further Action Letter - Final Draft		
Completed Area Name:	PROJECT WIDE		
Completed Sub Area Name:	Not reported		
Completed Document Type:	Preliminary Endangerment Assessment Report		
Completed Date:	07/18/2018		
Comments:	Not reported		
Completed Area Name:	PROJECT WIDE		
Completed Sub Area Name:	Not reported		
Completed Document Type:	Voluntary Cleanup Consultation		
Completed Date:	05/30/2018		
Comments:	final draft		
Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Schedule Area Name: Schedule Sub Area Name: Schedule Document Type: Schedule Due Date: Schedule Revised Date:	Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported		
VCP: Facility ID: Site Type: Site Type Detail: Site Mgmt. Req.: Acres: National Priorities List: Cleanup Oversight Agencies: Lead Agency: Lead Agency: Lead Agency: Lead Agency: Supervisor: Division Branch: Site Code: Assembly: Senate: Special Programs Code: Status:	60002665 Voluntary Cleanup Voluntary Cleanup NONE SPECIFIED 8 NO SMBRP DTSC - Site Cleanup Program Parag Shah Daniel Murphy Cleanup Berkeley 202187 , 11 , 07 Voluntary Cleanup Program No Further Action		

Database(s) EPA

EDR ID Number EPA ID Number

EMPIRE ACRES LLC (Continued)

	Status Date:	07/18/2018
	Restricted Use:	NO
	Funding:	Responsible Party
	Lat/Long:	37.95562 / -121.7324
	•	NONE SPECIFIED
	APN:	
	Past Use:	AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
	Potential COC:	30004, 30008, 30309
	Confirmed COC:	30004,30008,30309
	Potential Description:	SOIL
	Alias Name:	202187
	Alias Type:	Project Code (Site Code)
	Alias Name:	60002665
	Alias Type:	Envirostor ID Number
C	ompleted Info:	
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Name:	Not reported
	Completed Document Type:	Voluntary Cleanup Agreement
	Completed Date:	06/18/2018
	Comments:	final draft
	Comments.	indi uidit
	Completed Area News	
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Name:	Not reported
	Completed Document Type:	No Further Action Letter
	Completed Date:	07/18/2018
	Comments:	No Further Action Letter - Final Draft
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Name:	Not reported
	Completed Document Type:	Preliminary Endangerment Assessment Report
	Completed Date:	07/18/2018
	Comments:	Not reported
	Completed Area Name:	PROJECT WIDE
	Completed Sub Area Name:	Not reported
	Completed Document Type:	Voluntary Cleanup Consultation
	Completed Date:	05/30/2018
	Comments:	final draft
	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
H	AZNET:	
	•	E ACRES, LLC.
	envid: S12101	8194
	Year: 2016	
		2890949
	Contact: SCOTT	HALLEY
	Telephone: 925392	5685

Database(s)

EDR ID Number EPA ID Number

EMPIRE ACRES LLC (Continued)

Mailing Name: Not reported 1820 BONANZA ST Mailing Address: Mailing City, St, Zip: WALNUT CREEK, CA 94596 Gen County: Contra Costa TSD EPA ID: CAD982042475 TSD County: Solano Waste Category: Asbestos containing waste **Disposal Method:** Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization) Tons: 6.9 Cat Decode: Not reported Method Decode: Not reported Facility County: Contra Costa NPDES: Facility Status: Not reported NPDES Number: Not reported Not reported Region: Agency Number: Not reported Regulatory Measure ID: Not reported Place ID: Not reported Not reported Order Number: WDID: 5S07C384032 Regulatory Measure Type: Construction Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Not reported Expiration Date Of Regulatory Measure: Discharge Address: Not reported Discharge Name: Not reported **Discharge City:** Not reported **Discharge State:** Not reported Discharge Zip: Not reported Active Status: Status Date: 07/20/2018 **Operator Name:** K Hovnanian Companies of California Operator Address: 3721 Dounglas Blvd Suite 150 Sacramento **Operator City: Operator State:** California Operator Zip: 95821 Facility Status: Active CAS000002 NPDES Number: Region: 5S Agency Number: 0 499652 **Regulatory Measure ID:** Not reported Place ID: 2009-0009-DWQ Order Number: 5S07C384032 WDID: Regulatory Measure Type: Enrollee Program Type: Construction Adoption Date Of Regulatory Measure: Not reported 07/20/2018 Effective Date Of Regulatory Measure: Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported 3721 Dounglas Blvd Suite 150 **Discharge Address:**

K Hovnanian Companies of California

Database(s)

EDR ID Number EPA ID Number

EMPIRE ACRES LLC (Continued)

Discharge Name:

S121018194

Discharge Name.	K Hovhanian Companies of California
Discharge City:	Sacramento
Discharge State:	California
Discharge Zip:	95821
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
CIWQS:	
Agency:	K Hovnanian Companies of California
Agency Address:	3721 Dounglas Blvd Suite 150, Sacramento, CA 95821
Place/Project Type:	Construction - Residential
SIC/NAICS:	Not reported
Region:	5S
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	5S07C384032
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	07/20/2018
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.96464
Longitude:	-121.73128

14	
WSW	
1/2-1	

EMPIRE ELEMENTARY SCHOOL EMPIRE AVENUE/AMBER LANE BRENTWOOD CA 94513

1/2-1 0.821 mi. 4335 ft.	BRENTWOOD, CA 94513	
Relative: Higher	ENVIROSTOR: Facility ID:	1010005
Actual: 114 ft.	Status: Status Date: Site Code: Site Type: Site Type Detailed: Acres: NPL: Regulatory Agencies: Lead Agency: Program Manager: Supervisor: Division Branch:	Certified 06/09/2003 201282 School Cleanup School 18.96 NO HWMP HWMP Kamili Siglowide Mark Malinowski Northern California Schools & Santa Susana

ENVIROSTOR S116165206 SCH N/A

Database(s)

EDR ID Number EPA ID Number

EMPIRE ELEMENTARY SCHOOL (Continued)

Assembly:	11
Senate:	07
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	37.95523
Longitude:	-121.7335
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic DDE DDT Toxaphene
Confirmed COC:	Arsenic DDE DDT Toxaphene
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported
Completed Info:	
Completed Area Name:	Not reported
Completed Sub Area Nan	•
Completed Document Typ	•
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name	
Schedule Document Type	•
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported
SCH:	
Facility ID:	1010005
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18.96
National Priorities List:	NO
Cleanup Oversight Agend	
Lead Agency:	HWMP
Lead Agency Description:	DTSC - Hazardous Waste Management Program
Project Manager:	Kamili Siglowide
Supervisor:	Mark Malinowski
Division Branch:	Northern California Schools & Santa Susana
Site Code:	201282
Assembly:	11
Senate:	07
Special Program Status:	Not reported
Status:	Certified
Status Date:	06/09/2003
Restricted Use:	NO
Funding:	School District
Latitude:	37.95523
Longitude:	-121 7335

-121.7335

Longitude:

Database(s)

EDR ID Number EPA ID Number

EMPIRE ELEMENTARY SCHOOL (Continued)

	(••••••••)
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, DDE, DDT, Toxaphene
Confirmed COC:	Arsenic, DDE, DDT, Toxaphene
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported
Completed Info: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	Not reported Not reported Not reported Not reported Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

15 WSW 1/2-1 0.887 mi. 4685 ft.	MILES-FENELL PROPERTY EN 2200 SHADY WILLOW LANE,2301 & 2251 EMPIRE AVENUE BRENTWOOD, CA 94513		NVIROSTOR VCP	S116490709 N/A
Relative: Higher Actual: 114 ft.	ENVIROSTOR: Facility ID: Status: Status Date: Site Code: Site Type: Site Type Detailed: Acres: NPL: Regulatory Agencies: Lead Agency: Program Manager: Supervisor: Division Branch: Assembly: Senate: Special Program: Restricted Use: Site Mgmt Req: Funding: Latitude: Longitude: APN: Past Use: Potential COC: Confirmed COC: Potential Description:	60001996 No Further Action 08/12/2014 202004 Voluntary Cleanup Voluntary Cleanup 13.92 NO SMBRP SMBRP Not reported Daniel Murphy Cleanup Berkeley 11 07 Not reported NO NONE SPECIFIED Responsible Party 37.95763 -121.7360 019040050, 019040051, 019040066 AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPE Arsenic Arsenic SOIL	νS	

Database(s)

EDR ID Number EPA ID Number

Alias Name:	Bella Fiore Development	
Alias Type:	Alternate Name	
Alias Name:	019040050	
Alias Type:	APN	
Alias Name:	019040051	
Alias Type:	APN	
Alias Name:	019040066	
Alias Type:	APN	
Alias Name:	202004	
Alias Type: Alias Name:	Project Code (Site Code)	
	60001996 Envirostor ID Number	
Alias Type:		
ompleted Info:		
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Preliminary Endangerment Assessment Report	
Completed Date:	06/27/2014	
Comments:	Acceptance of the documents as a PEA equivalency with further work needed.	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Application	
Completed Date:	04/03/2014	
Comments:	DTSC was selected for the oversight for this project.	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Voluntary Cleanup Agreement	
Completed Date:	05/14/2014	
Comments:	Not reported	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	No Further Action Letter	
Completed Date:	08/12/2014	
Comments:	Not reported	
Future Area Name:	Not reported	
Future Sub Area Name:	Not reported	
Future Document Type:	Not reported	
Future Due Date:	Not reported	
Schedule Area Name:	Not reported	
Schedule Sub Area Name:	Not reported	
Schedule Document Type:	Not reported	
Schedule Due Date:	Not reported	
Schedule Revised Date:	Not reported	
CP:		
Facility ID:	60001996	
Site Type:	Voluntary Cleanup	
Site Type Detail:	Voluntary Cleanup	
Site Mgmt. Req.:	NONE SPECIFIED	
Acres:	13.92	
National Priorities List:	NO	
Cleanup Oversight Agencies:		

90709

Database(s)

EDR ID Number EPA ID Number

MILES-FENELL PROPERTY (Continued)

Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Site Code:	202004
Assembly:	11
Senate:	07
Special Programs Code:	Not reported
Status:	No Further Action
Status Date:	08/12/2014
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.95763 / -121.7360
APN:	019040050, 019040051, 019040066
Past Use:	AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC:	30001
Confirmed COC:	30001
Potential Description:	SOIL
Alias Name:	Bella Fiore Development
Alias Type:	Alternate Name
Alias Name:	019040050
Alias Type:	APN
Alias Name:	019040051
Alias Type:	APN
Alias Name:	019040066
Alias Type:	APN
Alias Name:	202004
Alias Type:	Project Code (Site Code)
Alias Name:	60001996
Alias Type:	Envirostor ID Number
Completed Info:	
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/27/2014
Comments:	Acceptance of the documents as a PEA equivalency with further work
	needed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	04/03/2014
Completed Date: Comments:	04/03/2014 DTSC was selected for the oversight for this project.
Comments:	DTSC was selected for the oversight for this project.
Comments: Completed Area Name:	DTSC was selected for the oversight for this project. PROJECT WIDE
Comments: Completed Area Name: Completed Sub Area Name:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014 Not reported
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments: Completed Area Name:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014 Not reported PROJECT WIDE
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments: Completed Area Name: Completed Sub Area Name:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014 Not reported PROJECT WIDE Not reported
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments: Completed Area Name: Completed Sub Area Name: Completed Sub Area Name: Completed Document Type:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014 Not reported PROJECT WIDE
Comments: Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments: Completed Area Name: Completed Sub Area Name:	DTSC was selected for the oversight for this project. PROJECT WIDE Not reported Voluntary Cleanup Agreement 05/14/2014 Not reported PROJECT WIDE Not reported No Further Action Letter

Database(s)

EDR ID Number EPA ID Number

S116490709

MILES-FENELL PROPERTY (Continued)

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

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ANTIOCH	S121651786	LONE TREE LANDING	LONE TREE WAY & HILLCREST AVEN	94531	CIWQS
ANTIOCH	S122248188	LONE TREE WAY INTERSECTION IMPROVE	LONE TREE WAY HILLCREST AVENUE	94531	NPDES
ANTIOCH	S121651792	LONE TREE WAY & HILLCREST WIDENING	LONE TREE WAY & HILLCREST AVEN	94531	CIWQS
BRENTWOOD	S106230275	VENTURINI LEASE SITE (BRENTWOOD OI	DEER VALLEY RD & LONE TREE WAY		CPS-SLIC
BRENTWOOD	S121651794	LONE TREE WAY	LONE TREE WAY	94513	CIWQS
BRENTWOOD	S121651790	LONE TREE TOWNE PLAZA	LONE TREE WY	94513	CIWQS
BRENTWOOD	S106112407	OXY USA INC. (BRENTWOOD OIL & GAS	LONE TREE WAY & DEER VALLEY RD		CPS-SLIC
BRENTWOOD	S121651787	LONE TREE PLAZA	NEC HEIDORN RANCH RD & LONE T	94513	CIWQS
BRENTWOOD	S121641205	GOLDEN EAGLE AT LONE TREE	SOF LONE TREE WAY W OF FAIRVIE		CIWQS
BRENTWOOD	S121651788	LONE TREE PLAZA	SWC OF LONE TREE WAY AND SR4 B	94513	CIWQS

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: 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: 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 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 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: 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: 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: 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: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 92 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 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	Source: EPA
Date Data Arrived at EDR: 03/27/2019	Telephone: 800-424-9346
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 03/27/2019
Number of Days to Update: 21	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: 03/25/2019Source: Environmental Protection AgencyDate Data Arrived at EDR: 03/27/2019Telephone: (415) 495-8895Date Made Active in Reports: 04/17/2019Last EDR Contact: 03/27/2019Number of Days to Update: 21Next Scheduled EDR Contact: 07/08/2019Data 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	Source: Department of the Navy
Date Data Arrived at EDR: 03/07/2019	Telephone: 843-820-7326
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 02/07/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/27/2019
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 02/04/2019
Number of Days to Update: 32	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: 02/04/2019 Date Data Arrived at EDR: 02/08/2019 Date Made Active in Reports: 03/08/2019 Number of Days to Update: 28 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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/29/2019	Telephone: 916-323-3400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/29/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/11/2019
	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: 01/29/2019 Next Scheduled EDR Contact: 05/11/2019 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 inventory 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: 02/12/2019 Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation Del Norte, Humboldt, Lake, Mendocino, Modoc, please refer to the State Water Resources Cont	, Siskiyou, Sonoma, Trinity counties. For more current information, trol 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 7: Leaking Underground Storage Tank C Leaking Underground Storage Tank locations.	Case Listing 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 8: Leaking Underground Storage Tanks California Regional Water Quality Control Board to the State Water Resources Control Board's L	d Santa Ana Region (8). For more current information, please refer _UST database.
Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005 Number of Days to Update: 41	Source: California Regional Water Quality Control Board Santa Ana Region (8) Telephone: 909-782-4496 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Varies
LUST REG 6V: Leaking Underground Storage Tank Leaking Underground Storage Tank locations.	Case Listing 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 For more current information, please refer to the	Case Listing e 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
Dorado, Fresno, Glenn, Kern, Kings, Lake, Las	Database Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El sen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, inislaus, 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
	OTRACKER) res included in GeoTracker. GeoTracker is the Water Boards data management ial 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 2: Fuel Leak List Leaking Underground Storage Tank locations Clara, Solano, Sonoma counties.	s. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
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 3: Leaking Underground Storage Tank Leaking Underground Storage Tank locations	CDatabase s. 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 4: Underground Storage Tank Leak Lis Los Angeles, Ventura counties. For more cur Board's LUST database.	st rent information, please refer to the State Water Resources Control
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 9: Leaking Underground Storage Tank Orange, Riverside, San Diego counties. For r Control Board's LUST database.	Report more current information, please refer to the State Water Resources
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
INDIAN LUST R10: Leaking Underground Storage LUSTs on Indian land in Alaska, Idaho, Orego	
Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 03/07/2019 Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies
INDIAN LUST R9: Leaking Underground Storage LUSTs on Indian land in Arizona, California, I	
Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 03/07/2019 Next Scheduled EDR Contact: 05/06/2019 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.		
Number of Days to Update: 63 Next Schedul	5	
NDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska		
Date Made Active in Reports: 07/20/2018Last EDR CoNumber of Days to Update: 63Next Schedul	Region 7 113-551-7003 ntact: 03/07/2019 ed EDR Contact: 05/06/2019 Frequency: Varies	
INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.		
Date Made Active in Reports: 07/20/2018Last EDR CoNumber of Days to Update: 63Next Schedul	Region 6 214-665-6597 ntact: 03/07/2019 ed EDR Contact: 05/06/2019 e Frequency: Varies	
INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.		
Number of Days to Update: 63 Next Schedul		
INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.		
Date Made Active in Reports: 07/20/2018Last EDR CoNumber of Days to Update: 63Next Schedul	Region 1 517-918-1313 ntact: 03/07/2019 ed EDR Contact: 05/06/2019 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 Made Active in Reports: 07/20/2018Last EDR CoNumber of Days to Update: 63Next Schedul	, Region 5 112-886-7439 ntact: 03/07/2019 ed EDR Contact: 05/06/2019 e 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 Data Arrived at EDR: 12/11/2018Telephone: 8Date Made Active in Reports: 01/15/2019Last EDR CoNumber of Days to Update: 35Next Schedul	e Water Resources Control Board 366-480-1028 ntact: 12/12/2018 ed EDR Contact: 03/25/2019 9 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	
	LIC 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	

Data Release Frequency: Semi-Annually

SLI	C 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	
SLI	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	
SLI	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			
FEI	MA LIST: Underground Storage Tank Listing		

FEMA UST: Underground Storage Tank Listing A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 04/12/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 07/22/2019
	Data Release Frequency: Varies

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018	Source: SWRCB
Date Data Arrived at EDR: 12/11/2018	Telephone: 916-341-5851
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/11/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Semi-Annually

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 R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 03/07/2019 Next Scheduled EDR Contact: 05/06/2019 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: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 03/07/2019 Next Scheduled EDR Contact: 05/06/2019 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: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	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: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	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: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
· ·	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: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63 Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 03/07/2019 Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63 Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 03/05/2019 Next Scheduled EDR Contact: 05/06/2019 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: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/25/2019
Number of Days to Update: 142	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/29/2019	Telephone: 916-323-3400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/29/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/11/2019
	Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	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: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: No Update Planned	
SWRCY: Recycler Database A listing of recycling facilities in California.		
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: 916-323-3836 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: 02/09/2019 Date Data Arrived at EDR: 02/12/2019 Date Made Active in Reports: 03/27/2019 Number of Days to Update: 43	Source: Integrated Waste Management Board Telephone: 916-341-6422 Last EDR Contact: 03/26/2019 Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Varies	
INDIAN ODI: Report on the Status of Open Dumps Location of open dumps on Indian land.	on Indian Lands	
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: 01/29/2019 Next Scheduled EDR Contact: 05/13/2019 Data Release Frequency: Varies	
ODI: Open Dump Inventory An open dump is defined as a disposal facility Subtitle D Criteria.	that does not comply with one or more of the Part 257 or Part 258	
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: 04/22/2019 Next Scheduled EDR Contact: 08/05/2019 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: 02/01/2019 Next Scheduled EDR Contact: 05/13/2019 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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 02/21/2019
Number of Days to Update: 50	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: 01/29/2019 Next Scheduled EDR Contact: 05/11/2019 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: 04/22/2019 Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Varies

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: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 04/11/2019 Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995 Number of Days to Update: 27 Source: State Water Resources Control Board Telephone: 916-227-4364 Last EDR Contact: 01/26/2009 Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 02/21/2019
Number of Days to Update: 50	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 02/22/2019	Telephone: 866-480-1028
Date Made Active in Reports: 04/15/2019	Last EDR Contact: 03/11/2019
Number of Days to Update: 52	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	Source: Department of Public Health
Date Data Arrived at EDR: 12/06/2018	Telephone: 707-463-4466
Date Made Active in Reports: 12/14/2018	Last EDR Contact: 02/21/2019
Number of Days to Update: 8	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	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 09/12/2018	Telephone: 415-252-3896
Date Made Active in Reports: 10/11/2018	Last EDR Contact: 01/31/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/20/2019
	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: 10/22/2018 Date Data Arrived at EDR: 10/23/2018 Date Made Active in Reports: 11/30/2018 Number of Days to Update: 38

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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/01/2019	Telephone: 916-323-3400
Date Made Active in Reports: 04/02/2019	Last EDR Contact: 02/27/2019
Number of Days to Update: 32	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: 02/08/2019	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 02/08/2019	Telephone: 202-366-4555
Date Made Active in Reports: 03/21/2019	Last EDR Contact: 03/26/2019
Number of Days to Update: 41	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	Source: Office of Emergency Services
Date Data Arrived at EDR: 01/24/2019	Telephone: 916-845-8400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 01/24/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/06/2019
	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 Quality 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: 06/06/2012Source: FirstSearchDate Data Arrived at EDR: 01/03/2013Telephone: N/ADate Made Active in Reports: 02/22/2013Last EDR Contact: 01/03/2013Number of Days to Update: 50Next Scheduled EDR Contact: N/AData 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: 02/15/2019 Next Scheduled EDR Contact: 05/27/2019 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: 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: 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: 02/08/2019 Next Scheduled EDR Contact: 05/20/2019 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: 02/08/2019 Next Scheduled EDR Contact: 05/20/2019 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: 03/25/2019 Next Scheduled EDR Contact: 05/06/2019 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	Source: EPA
Date Data Arrived at EDR: 03/14/2019	Telephone: 703-416-0223
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 04/18/2019
Number of Days to Update: 18	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: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Quarterly		
PADS: PCB Activity Database System PCB Activity Database. PADS Identifies gene of PCB's who are required to notify the EPA o	rators, transporters, commercial storers and/or brokers and disposers f such activities.		
Date of Government Version: 09/14/2018 Date Data Arrived at EDR: 10/11/2018 Date Made Active in Reports: 12/07/2018 Number of Days to Update: 57	Source: EPA Telephone: 202-566-0500 Last EDR Contact: 04/10/2019 Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Annually		
	m (ICIS) supports the information needs of the national enforcement e needs of the National Pollutant Discharge Elimination System (NPDES)		
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 tracks administrative cases and pesticic	deral Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) de enforcement actions and compliance activities related to FIFRA, Community Right-to-Know Act). To maintain currency, EDR contacts the		
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 - FIFR A listing of FIFRA/TSCA Tracking System (FT	RA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TS) 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		
	y Commission and contains a list of approximately 8,100 sites which ch are subject to NRC licensing requirements. To maintain currency, s.		
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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 03/07/2019
Number of Days to Update: 76	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
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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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 01/25/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/06/2019
	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: 01/02/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 03/15/2019 Number of Days to Update: 71

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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 Pipelin	e 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: 01/29/2019 Next Scheduled EDR Contact: 05/11/2019 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
INDI	IAN RESERV: Indian Reservations This map layer portrays Indian administered la than 640 acres.	nds of the United States that have any area equal to or greater
	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
FUS		Program emedial Action Program (FUSRAP) in 1974 to remediate sites where hattan 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies
UMI	RA: Uranium Mill Tailings Sites	for federal government use in national defense programs. When the mills

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: 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: 703-603-8787 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Varies
	re secondary lead smelting was done from 1931and 1964. These sites estion 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
on air pollution point sources regulated by the information comes from source reports by vari steel mills, factories, and universities, and pro-	Bystem Facility Subsystem (AFS) Information Retrieval System (AIRS). AFS contains compliance data U.S. EPA and/or state and local air regulatory agencies. This isous stationary sources of air pollution, such as electric power plants, vides information about the air pollutants they produce. Action, al level plant data. It is used to track emissions and compliance
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 issue violation information.	d for mines active or opened since 1971. The data also includes
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
	Database Listing mines are facilities that extract ferrous metals, such as iron bus metal mines are facilities that extract nonferrous metals, such

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: 09/10/2018 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 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	Source: EPA
Date Data Arrived at EDR: 03/05/2019	Telephone: (415) 947-8000
Date Made Active in Reports: 03/15/2019	Last EDR Contact: 03/05/2019
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense	
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564	
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 04/15/2019	
Number of Days to Update: 74	Next Scheduled EDR Contact: 07/29/2019	
	Data Release Frequency: Varies	

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018Source: EDate Data Arrived at EDR: 07/26/2018TelephoneDate Made Active in Reports: 10/05/2018Last EDRNumber of Days to Update: 71Next Sche

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

Date of Government Version: 03/03/2019 Date Data Arrived at EDR: 03/05/2019	Source: Environmental Protection Agency Telephone: 202-564-2280
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 04/09/2019
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/22/2019
	Data Release Frequency: Quarterly
FUELS PROGRAM: EPA Fuels Program Register This listing includes facilities that are register Programs. All companies now are required to	ed under the Part 80 (Code of Federal Regulations) EPA Fuels
Date of Government Version: 02/19/2019	Source: EPA
Date Data Arrived at EDR: 02/21/2019	Telephone: 800-385-6164
Date Made Active in Reports: 04/01/2019 Number of Days to Update: 39	Last EDR Contact: 02/21/2019 Next Scheduled EDR Contact: 06/03/2019
Number of Days to Opdate. 39	Data Release Frequency: Quarterly
CA BOND EXP. PLAN: Bond Expenditure Plan Department of Health Services developed a Hazardous Substance Cleanup Bond Act fun	site-specific expenditure plan as the basis for an appropriation of ds. It is not updated.
Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994 Number of Days to Update: 6	Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A
Number of Days to Opdate. O	Data Release Frequency: No Update Planned
CORTESE: "Cortese" Hazardous Waste & Substa	ances Sites List
The sites for the list are designated by the St Board (SWF/LS), and the Department of Tox	ate Water Resource Control Board (LUST), the Integrated Waste ic Substances Control (Cal-Sites).
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018	ic Substances Control (Cal-Sites). Source: CAL EPA/Office of Emergency Information
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018	tic Substances Control (Cal-Sites). Source: CAL EPA/Office of Emergency Information Telephone: 916-323-3400
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019	tic Substances Control (Cal-Sites). Source: CAL EPA/Office of Emergency Information Telephone: 916-323-3400 Last EDR Contact: 03/26/2019
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018	tic Substances Control (Cal-Sites). Source: CAL EPA/Office of Emergency Information Telephone: 916-323-3400
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019	tic Substances Control (Cal-Sites). 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
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018	tic Substances Control (Cal-Sites). 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 ng Source: San Francisco County Department of Environmental Health
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018	 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 Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018	 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 Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 04/18/2019
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018	 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 Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018	tic Substances Control (Cal-Sites). 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 ng Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 7 CUPA LIVERMORE-PLEASANTON: CUPA Facilit	 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 Source: San Francisco County Department of Environmental Healt Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing JPA programs in Livermore-Pleasanton Source: Livermore-Pleasanton Fire Department
 Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 7 CUPA LIVERMORE-PLEASANTON: CUPA Facility List of facilities associated with the various CU Date of Government Version: 01/23/2019 Date Data Arrived at EDR: 02/26/2019	 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 Source: San Francisco County Department of Environmental Healt Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing JPA programs in Livermore-Pleasanton Source: Livermore-Pleasanton Fire Department Telephone: 925-454-2361
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 7 CUPA LIVERMORE-PLEASANTON: CUPA Facili list of facilities associated with the various CU Date of Government Version: 01/23/2019 Date Data Arrived at EDR: 02/26/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/01/2019	 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 Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing JPA programs in Livermore-Pleasanton Source: Livermore-Pleasanton Fire Department Telephone: 925-454-2361 Last EDR Contact: 02/26/2019
 Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 7 CUPA LIVERMORE-PLEASANTON: CUPA Facility List of facilities associated with the various CU Date of Government Version: 01/23/2019 Date Data Arrived at EDR: 02/26/2019	 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 Source: San Francisco County Department of Environmental Health Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing JPA programs in Livermore-Pleasanton Source: Livermore-Pleasanton Fire Department Telephone: 925-454-2361 Last EDR Contact: 02/26/2019 Next Scheduled EDR Contact: 05/27/2019
Board (SWF/LS), and the Department of Tox Date of Government Version: 12/20/2018 Date Data Arrived at EDR: 12/21/2018 Date Made Active in Reports: 02/28/2019 Number of Days to Update: 69 CUPA SAN FRANCISCO CO: CUPA Facility Listin Cupa facilities Date of Government Version: 09/11/2018 Date Data Arrived at EDR: 09/12/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 7 CUPA LIVERMORE-PLEASANTON: CUPA Facili list of facilities associated with the various CU Date of Government Version: 01/23/2019 Date Data Arrived at EDR: 02/26/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/01/2019	 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 ng Source: San Francisco County Department of Environmental Healt Telephone: 415-252-3896 Last EDR Contact: 04/18/2019 Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies ty Listing JPA programs in Livermore-Pleasanton Source: Livermore-Pleasanton Fire Department Telephone: 925-454-2361 Last EDR Contact: 02/26/2019 Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Varies

Date of Government Version: 02/27/2019	Sourc
Date Data Arrived at EDR: 02/28/2019	Telep
Date Made Active in Reports: 04/01/2019	Last E
Number of Days to Update: 32	Next
	Data

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	Source: South Coast Air Quality Management District
Date Data Arrived at EDR: 03/22/2019	Telephone: 909-396-3211
Date Made Active in Reports: 04/09/2019	Last EDR Contact: 03/22/2019
Number of Days to Update: 18	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: 04/23/2019 Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information

Date of Government Version: 01/10/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/23/2019	Telephone: 916-255-3628
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 04/22/2019
Number of Days to Update: 41	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: 02/11/2019 Next Scheduled EDR Contact: 05/27/2019 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: 12/31/2017Source: CaliforniaDate Data Arrived at EDR: 10/10/2018Telephone: 916-2Date Made Active in Reports: 11/16/2018Last EDR ContactNumber of Days to Update: 37Next Scheduled E

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.

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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/20/2019	Telephone: 916-323-3400
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 02/20/2019
Number of Days to Update: 13	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	e 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) ensures the proper handling and disposal of medical waste by permitting ent Facilities (PDF) and Transfer Stations (PDF) throughout the
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 stormw	vater.
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: 02/12/2019 Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Quarterly
	y the Department of Pesticide Regulation. The DPR issues licenses es that apply or sell pesticides; Pest control dealers and brokers; 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: 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: 916-323-3836 Last EDR Contact: 03/13/2019 Next Scheduled EDR Contact: 06/24/2019 Data Release Frequency: Quarterly
	ed to counties by the State Water Resources Control Board and the database is no longer updated by the reporting agency.
Date of Government Version: 09/19/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 10/19/2018 Number of Days to Update: 29	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 Fraguency: No Undate Planned

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	Source: State Water Resources Control Board	
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227	
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 02/13/2019	
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/03/2019	
	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

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

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: 12/10/2018 Date Data Arrived at EDR: 12/12/2018 Date Made Active in Reports: 01/18/2019 Number of Days to Update: 37 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: 10/22/2018 Date Data Arrived at EDR: 10/23/2018 Date Made Active in Reports: 11/30/2018 Number of Days to Update: 38 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

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

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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 03/25/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/08/2019
	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

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/11/2018	Telephone: 866-480-1028
Date Made Active in Reports: 01/15/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	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	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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	Source: Alameda County Environmental Health Services Telephone: 510-567-6700
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 04/22/2019
Number of Days to Update: 53	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: 01/07/2019Source:Date Data Arrived at EDR: 01/08/2019TelephoDate Made Active in Reports: 03/08/2019Last EDNumber of Days to Update: 59Next Sc

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

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: 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

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: 02/27/2019 Next Scheduled EDR Contact: 05/20/2019 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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 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: 10/16/2018 Date Data Arrived at EDR: 10/18/2018 Date Made Active in Reports: 11/14/2018 Number of Days to Update: 27 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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 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:	
	nation is at or above the MCL as designated by region 9 EPA office. Date area is a cleanup plan of lead-impacted soil surrounding the former
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 Ta	nk 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: 04/22/2019 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 Land Landfills owned and maintained by the City of	
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	Source: Community Health Services Telephone: 323-890-7806

Date of Government Version: 01/30/2019Source: Community Health ServicesDate Data Arrived at EDR: 02/01/2019Telephone: 323-890-7806Date Made Active in Reports: 03/07/2019Last EDR Contact: 04/16/2019Number of Days to Update: 34Next Scheduled EDR Contact: 07/29/2019Data 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	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 03/10/2017	Telephone: 562-570-2563
Date Made Active in Reports: 05/03/2017	Last EDR Contact: 04/22/2019
Number of Days to Update: 54	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	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/05/2018	Telephone: 310-618-2973
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 04/22/2019
Number of Days to Update: 28	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: 02/15/2019 Next Scheduled EDR Contact: 06/03/2019 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: 08/29/2018 Date Data Arrived at EDR: 08/31/2018 Date Made Active in Reports: 09/19/2018 Number of Days to Update: 19 Source: Merced County Environmental Health Telephone: 209-381-1094 Last EDR Contact: 03/18/2019 Next Scheduled EDR Contact: 06/03/2019 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	Source: Monterey County Health Department
Date Data Arrived at EDR: 02/07/2019	Telephone: 831-796-1297
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 04/01/2019
Number of Days to Update: 26	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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 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: 02/04/2019 Next Scheduled EDR Contact: 05/20/2019 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	Source: Health Care Agency
Date Data Arrived at EDR: 02/08/2019	Telephone: 714-834-3446
Date Made Active in Reports: 03/06/2019	Last EDR Contact: 02/04/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/20/2019 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	Source: Health Care Agency
Date Data Arrived at EDR: 02/05/2019	Telephone: 714-834-3446
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 02/05/2019
Number of Days to Update: 31	Next Scheduled EDR Contact: 05/20/2019
	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: 01/29/2019 Date Data Arrived at EDR: 01/31/2019 Date Made Active in Reports: 03/06/2019 Number of Days to Update: 34 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 Source: Department of Environmental Health Date Data Arrived at EDR: 01/31/2019 Telephone: 951-358-5055 Date Made Active in Reports: 03/08/2019 Last EDR Contact: 03/18/2019 Next Scheduled EDR Contact: 07/01/2019 Number of Days to Update: 36 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 Source: Sacramento County Environmental Management Date Data Arrived at EDR: 01/04/2019 Telephone: 916-875-8406 Last EDR Contact: 04/02/2019 Date Made Active in Reports: 03/05/2019 Number of Days to Update: 60 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 Source: Sacramento County Environmental Management Date Data Arrived at EDR: 12/28/2018 Telephone: 916-875-8406 Last EDR Contact: 04/02/2019 Date Made Active in Reports: 03/05/2019 Number of Days to Update: 67 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: 11/15/2018 Source: San Benito County Environmental Health Date Data Arrived at EDR: 11/16/2018 Telephone: N/A Date Made Active in Reports: 12/13/2018 Last EDR Contact: 02/27/2019 Number of Days to Update: 27 Next Scheduled EDR Contact: 05/20/2019 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	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 02/28/2019	Telephone: 909-387-3041
Date Made Active in Reports: 04/02/2019	Last EDR Contact: 02/19/2019
Number of Days to Update: 33	Next Scheduled EDR Contact: 05/20/2019
	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 guantity, 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

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: 10/22/2018 Date Data Arrived at EDR: 10/23/2018 Date Made Active in Reports: 11/30/2018 Number of Days to Update: 38

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

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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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	Source: Environmental Health Department
Date Data Arrived at EDR: 06/26/2018	Telephone: N/A
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 03/18/2019
Number of Days to Update: 15	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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 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: 12/03/2018 Date Data Arrived at EDR: 12/12/2018 Date Made Active in Reports: 01/15/2019 Number of Days to Update: 34 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: 12/13/2018Source: San Mateo County Environmental Health Services DivisionDate Data Arrived at EDR: 12/18/2018Telephone: 650-363-1921Date Made Active in Reports: 01/23/2019Last EDR Contact: 03/25/2019Number of Days to Update: 36Next Scheduled EDR Contact: 06/24/2019Data 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	Source: Santa Barbara County Public Health Department
Date Data Arrived at EDR: 09/09/2011	Telephone: 805-686-8167
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 02/13/2019
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/03/2019
	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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Varies
	ak Site Activity Report Ind storage tanks. This listing is no longer updated by the county. andled 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 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: 02/13/2019 Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Varias

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: 11/29/2018 Date Data Arrived at EDR: 12/04/2018 Date Made Active in Reports: 01/11/2019 Number of Days to Update: 38	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 Sol	ano 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: 12/21/2018 Date Data Arrived at EDR: 12/27/2018 Date Made Active in Reports: 01/15/2019 Number of Days to Update: 19	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: 01/08/2019 Date Data Arrived at EDR: 01/10/2019 Date Made Active in Reports: 03/06/2019 Number of Days to Update: 55	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 Sut	tter 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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: 01/31/2019 Next Scheduled EDR Contact: 05/20/2019 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: 04/22/2019 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).

Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 02/07/2019 Next Scheduled EDR Contact: 05/27/2019
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	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 01/24/2019	Telephone: 805-654-2813
Date Made Active in Reports: 03/07/2019	Last EDR Contact: 04/23/2019
Number of Days to Update: 42	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: 01/28/2019 Next Scheduled EDR Contact: 05/11/2019 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 docum transporters to a tsd facility.	nent that lists and tracks hazardous waste from the generator through
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: 02/12/2019 Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: No Update Planned
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 08/01/2018 Number of Days to Update: 19	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 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 ha facility.	azardous waste from the generator through transporters to a TSD
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: 01/30/2019 Next Scheduled EDR Contact: 05/11/2019 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: 02/19/2019 Next Scheduled EDR Contact: 06/03/2019 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

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

LONE TREE WAY LONE TREE WAY BRENTWOOD, CA 94513

TARGET PROPERTY COORDINATES

Latitude (North):	37.961034 - 37° 57' 39.72''
Longitude (West):	121.719892 - 121° 43' 11.61"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	612454.6
UTM Y (Meters):	4202059.0
Elevation:	91 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640376 BRENTWOOD, 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.

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).

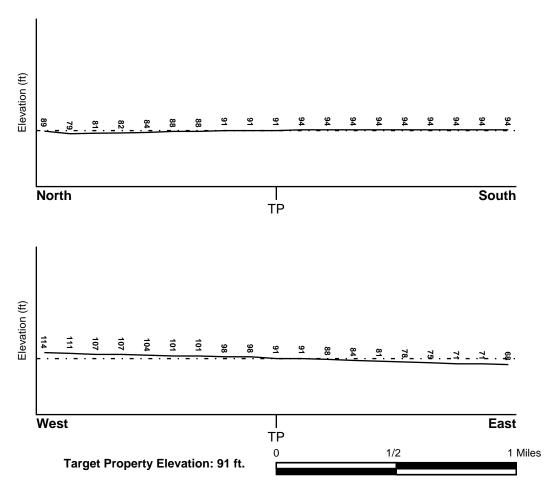
TOPOGRAPHIC INFORMATION

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 ENE

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.

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
06013C0353F	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
06013C0355F 06013C0354F	FEMA FIRM Flood data FEMA FIRM Flood data
NATIONAL WETLAND INVENTORY	NWI Electronic
NWI Quad at Target Property BRENTWOOD	Data Coverage 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 Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

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

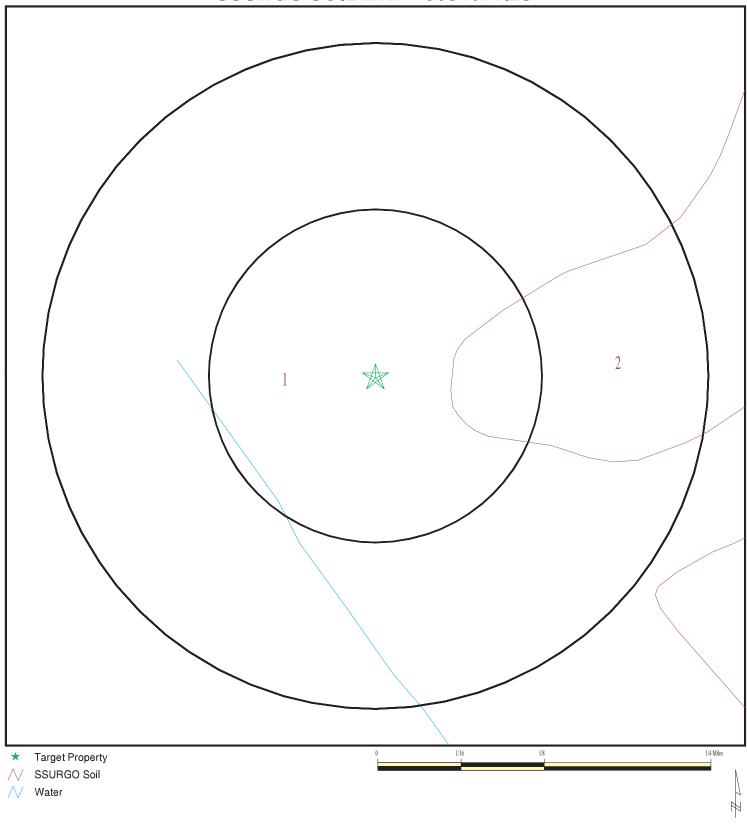
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic Ca	tegory:	Stratifed Sequence
System:	Quaternary		
Series:	Quaternary		
Code:	Q (decoded above as Era, System & Series)		

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).



SITE NAME:	Lone Tree Way LONE TREE WAY
ADDRESS:	LONE TREE WAY
	BRENTWOOD CA 94513
LAT/LONG:	37.961034 / 121.719892

CLIENT: CONTACT: INQUIRY #: DATE:	TRC Glenn Young 5631677.2s April 24, 2019 6:49 pm	
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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:	CAPAY
Soil Surface Texture:	clay
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:	> 0 inches

Soil Layer Information							
	Βοι	indary		Classi	fication	Saturated hydraulic	
Layer	Upper Lower		Soil Texture Class	AASHTO Group Unified Soil		conductivity micro m/sec	
1	0 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	35 inches	51 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	51 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

	Soil	Map	ID: 2
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Soil Component Name:	RINCON
Soil Surface Texture:	clay loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
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						
	Bou	Indary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec (pH)	
1	0 inches	11 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	11 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
3	29 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	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.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS Federal FRDS PWS	1.000 Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000186286	0 - 1/8 Mile SE
5	USGS40000186318	1/2 - 1 Mile NNE
6	USGS40000186305	1/2 - 1 Mile ENE
8	USGS40000186264	1/2 - 1 Mile WSW
9	USGS40000186238	1/2 - 1 Mile SW
10	USGS40000186230	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No DWC Sustem Found		

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
2 3 4	61 60 65	1/4 - 1/2 Mile East 1/4 - 1/2 Mile ENE 1/2 - 1 Mile West
1	80	1/2 - 1 Mile ESE

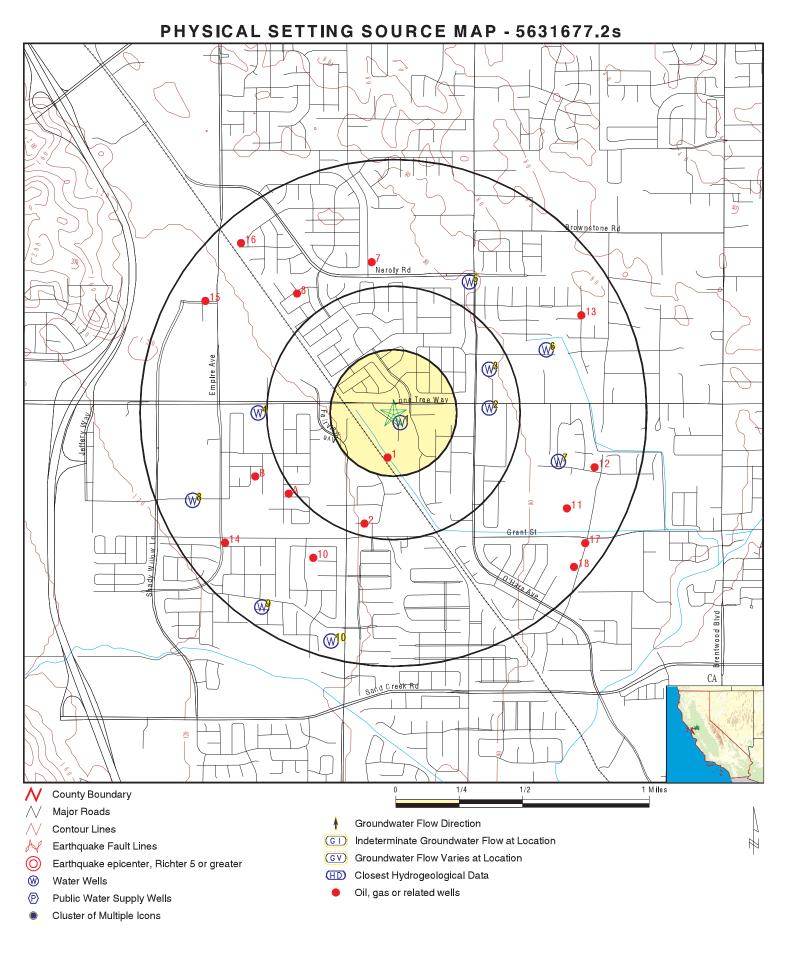
OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000232766	1/8 - 1/4 Mile South
2	CAOG11000232881	1/4 - 1/2 Mile SSW
A4	CAOG11000232871	1/2 - 1 Mile SW
A3	CAOG11000232873	1/2 - 1 Mile SW
A5	CAOG11000232872	1/2 - 1 Mile SW
B6	CAOG11000232882	1/2 - 1 Mile WSW
7	CAOG11000232768	1/2 - 1 Mile North
8	CAOG11000232540	1/2 - 1 Mile NW
B9	CAOG11000232034	1/2 - 1 Mile WSW
10	CAOG11000232543	1/2 - 1 Mile SSW
11	CAOG11000232539	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
12	CAOG11000232829	1/2 - 1 Mile ESE
13	CAOG11000232538	1/2 - 1 Mile ENE
14	CAOG11000232038	1/2 - 1 Mile SW
15	CAOG11000232376	1/2 - 1 Mile WNW
16	CAOG11000232786	1/2 - 1 Mile NW
17	CAOG11000232596	1/2 - 1 Mile SE
18	CAOG11000232815	1/2 - 1 Mile SE



BRENTWOOD CA 94513	CLIENT: TRC CONTACT: Glenn Young INQUIRY #: 5631677.2s DATE: April 24, 2019 6:48 pm
	Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

Map ID Direction				
Distance Elevation			Database	EDR ID Number
1 SE 0 - 1/8 Mile Higher			FED USGS	USGS40000186286
Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	USGS-CA USGS California Water Science C 001N002E02K001M Not Reported Not Reported Central Valley aquifer system Not Reported 19720519 ft	enter Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type: Well Depth: Well Hole Depth:	Jnts: Not R	0003 eported eported eported
Ground water levels,Num Feet below surface: Note:	ber of Measurements: 1 46.00 Not Reported	Level reading date: Feet to sea level:		05-19 eported
2 East 1/4 - 1/2 Mile Lower			CA WELLS	61
Seq: Frds no: District: System no: Source nam: Latitude: Precision: Comment 1: Comment 3: Comment 5: Comment 5: Comment 7: System no: Hqname: City: Zip:	61 0706023001 37 0706023 WELL 01 375741.0 3 Not Reported Not Reported Not Reported Not Reported 0706023 Not Reported Not Reported Not Reported Not Reported	Prim sta c: County: User id: Water type: Station ty: Longitude: Status: Comment 2: Comment 4: Comment 6: System nam: Address: State: Zip ext:	01N/02E-01 07 G WELL/AMB 1214243.0 AR Not Reporte Not Reporte Not Reporte Not Reporte Not Reporte Not Reporte	NT/MUN/INTAKE od od NITS od
Pop serv: Area serve: 3 ENE 1/4 - 1/2 Mile Lower	0 Not Reported	Connection:	0 CA WELLS	60
Seq: Frds no: District: System no: Source nam: Latitude: Precision:	60 0707538001 37 0707538 WELL 01 375749.0 3	Prim sta c: County: User id: Water type: Station ty: Longitude: Status:	01N/02E-01 07 G WELL/AMB 1214243.0 AR	E02 M NT/MUN/INTAKE

Comment 1: Comment 3: Comment 5: Comment 7: System no: Hgname: City: Zip: Pop serv:

Area serve:

West

1/2 - 1 Mile Higher Seq:

Frds no:

District:

Latitude:

Precision:

Comment 1:

Comment 3:

Comment 5:

Comment 7:

System no:

Area serve:

Hqname:

City:

Zip: Pop serv:

ŇNE

1/2 - 1 Mile

System no:

Source nam:

Not Reported Not Reported 0

65

37

3

0

0706013001

0706013

WELL 01

375740.0

Not Reported

0706013

Not Reported

0707538 Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Comment 2: Comment 4: Comment 6:

System nam: Address: State: Zip ext: Connection:

Prim sta c:

Water type:

Station ty:

Longitude:

Comment 2:

Comment 4:

Comment 6:

System nam:

Address:

State:

Zip ext:

Connection:

Status:

County:

User id:

Not Reported Not Reported Not Reported

KUTCH-RAGGEDY A & A PRESCHOOL Not Reported Not Reported Not Reported 0

CA WELLS 65

01N/02E-02M01 M 07 07C G 1214343.0 AR Not Reported Not Reported Not Reported

0

WELL/AMBNT/MUN/INTAKE

LA PALOMA HIGH SCHOOL Not Reported Not Reported Not Reported

FED USGS USGS40000186318

Lower Organization ID: **USGS-CA** Organization Name: USGS California Water Science Center Monitor Location: 001N002E02A001M Well Type: Description: Not Reported HUC: 18040003 Drainage Area: Not Reported Not Reported Drainage Area Units: Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported Aquifer: Central Valley aquifer system Not Reported Formation Type: Not Reported Aquifer Type: Construction Date: Well Depth: 19750618 125 Well Depth Units: ft Well Hole Depth: 165 Well Hole Depth Units: ft Ground water levels Number of Measurements: 1 Level reading date: 1975-06-18

Glound water levels, Number	or measurements.
Feet below surface:	62.00
Note:	Not Reported

Feet to sea level:

Not Reported

Map ID
Direction
Distance
Elevation

Direction Distance Elevation			Database	EDR ID Number
6 ENE 1/2 - 1 Mile			FED USGS	USGS40000186305
Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Aquifer Type: Well Depth: Well Hole Depth:	USGS-CA USGS California Water Science Cente 001N002E01F001M Not Reported Not Reported Central Valley aquifer system Alluvium of the Coast Range, Younger Not Reported 133 133	Type: HUC: Drainage Area Units: Contrib Drainage Area Ur		Reported Reported
7 ESE 1/2 - 1 Mile Lower			CA WELLS	80
Seq: Frds no: District: System no: Source nam: Latitude: Precision: Comment 1: Comment 1: Comment 3: Comment 5: Comment 7:	80 0710004008 04 0710004 WELL 08 375730.0 4 Not Reported Not Reported Not Reported Not Reported Not Reported	Prim sta c: County: User id: Water type: Station ty: Longitude: Status: Comment 2: Comment 4: Comment 6:	01N/03E-06 07 ENG G WELL/AME 1214225.0 AR Not Reporte Not Reporte	NT/MUN/INTAKE ed ed
System no: Hqname: City: Zip: Pop serv: Area serve: Sample date: Chemical:	0710004 Not Reported BRENTWOOD 94513 8255 BRENTWOOD 07-SEP-17 SPECIFIC CONDUCTANCE	System nam: Address: State: Zip ext: Connection: Finding: Report units:	CITY OF B 708 THIRD Not Reporte Not Reporte 2167 1700. US	ed
DIr: Sample date: Chemical: DIr: Sample date: Chemical:	0. 07-SEP-17 GROSS BETA MDA95 0. 07-SEP-17 ALKALINITY (TOTAL) AS CACO3	Finding: Report units: Finding: Report units:	1.9 PCI/L 200. MG/L	
DIr: Sample date: Chemical: DIr:	0. 07-SEP-17 BICARBONATE ALKALINITY 0.	Finding: Report units:	250. MG/L	
Sample date:	07-SEP-17	Finding:	2.	

Chemical: Dlr:	CARBONATE ALKALINITY 0.	Report units:	MG/L
Sample date: Chemical: Dlr:	07-SEP-17 NITRATE (AS N) 0.4	Finding: Report units:	0.79 MG/L
Sample date: Chemical: Dlr:	07-SEP-17 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	390. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 CALCIUM 0.	Finding: Report units:	89. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 MAGNESIUM 0.	Finding: Report units:	41. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 SODIUM 0.	Finding: Report units:	200. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 POTASSIUM 0.	Finding: Report units:	3.3 MG/L
Sample date: Chemical: Dlr:	07-SEP-17 CHLORIDE 0.	Finding: Report units:	300. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 SULFATE 0.5	Finding: Report units:	200. MG/L
Sample date: Chemical: Dlr:	07-SEP-17 FLUORIDE (F) (NATURAL-SOURCE) 0.1	Finding: Report units:	0.27 MG/L
Sample date: Chemical: Dlr:	07-SEP-17 BORON 100.	Finding: Report units:	1600. UG/L
Sample date: Chemical: Dlr:	07-SEP-17 VANADIUM 3.	Finding: Report units:	6.4 UG/L
Sample date: Chemical: Dlr:	07-SEP-17 SELENIUM 5.	Finding: Report units:	7.1 UG/L
Sample date: Chemical: Dlr:	07-SEP-17 GROSS ALPHA COUNTING ERROR 0.	Finding: Report units:	0.35 PCI/L
Sample date: Chemical: Dlr:	07-SEP-17 GROSS BETA COUNTING ERROR 0.	Finding: Report units:	0.61 PCI/L
Sample date: Chemical: Dlr:	07-SEP-17 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	1000. MG/L

Sample date: Chemical: Dlr:

Sample date: Chemical:

0. 07-SEP-17 AGGRSSIVE INDEX (CORROSIVITY) 0.

07-SEP-17 NITRATE + NITRITE (AS N) 0.4

LANGELIER INDEX @ 60 C

07-SEP-17 **GROSS ALPHA MDA95** 0.

07-SEP-17 PH, LABORATORY 0.

07-SEP-17

31-MAY-16 SPECIFIC CONDUCTANCE 0.

31-MAY-16 **GROSS BETA MDA95** 0.

31-MAY-16 ALKALINITY (TOTAL) AS CACO3 0.

31-MAY-16 BICARBONATE ALKALINITY 0.

31-MAY-16 NITRATE (AS N) 0.4

31-MAY-16 HARDNESS (TOTAL) AS CACO3 0.

31-MAY-16 CALCIUM 0.

31-MAY-16 MAGNESIUM 0. 31-MAY-16

SODIUM 0.

31-MAY-16 POTASSIUM 0.

31-MAY-16 CHLORIDE Finding: Report units:

Report units:

Finding:

Finding:

Finding:

Finding:

13. Not Reported

1.4

0.79

MG/L

0.15

PCI/L

1700.

US

1.3

45.

MG/L

PCI/L

Not Reported

Report units:

Report units:

8.1 Report units: Not Reported

Finding: Report units:

Finding: Report units:

Finding: 190. Report units: MG/L

230. Finding: Report units: MG/L

Finding: 0.84 Report units: MG/L

Finding: 430. Report units: MG/L

> Finding: 97. Report units: MG/L

Finding:

Finding: 220. Report units: MG/L

Finding: 3.7 Report units: MG/L Finding: 340.

Report units:

Report units: MG/L

Dlr:

Sample date: Chemical: Dlr: 0.

Sample date: Chemical: Dlr:

31-MAY-16 Finding: SULFATE Report units: 0.5 31-MAY-16 Finding: FLUORIDE (F) (NATURAL-SOURCE) Report units: 0.1 31-MAY-16 Finding: BORON Report units: 100. 31-MAY-16 Finding: VANADIUM Report units: 3. 31-MAY-16 Finding: **GROSS ALPHA** Report units: 3. Finding: 31-MAY-16 GROSS ALPHA COUNTING ERROR Report units: 0. 31-MAY-16 Finding: GROSS BETA COUNTING ERROR Report units: 0. 31-MAY-16 Finding: TOTAL DISSOLVED SOLIDS Report units: 0. 31-MAY-16 Finding: LANGELIER INDEX @ 60 C Report units: 0. Finding: 31-MAY-16 TURBIDITY, LABORATORY Report units: 0.1 31-MAY-16 Finding: AGGRSSIVE INDEX (CORROSIVITY) Report units: 0.

31-MAY-16 NITRATE + NITRITE (AS N) 0.4

31-MAY-16 GROSS ALPHA MDA95 0.

31-MAY-16 PH, LABORATORY 0.

14-APR-15 SPECIFIC CONDUCTANCE 0. Report units: Finding: Report units:

Finding: Report units:

Finding: Report units:

Report units:

Finding:

7.9 Not Reported

220.

MG/L

0.24

MG/L

1700.

UG/L

6.

UG/L

4.4

PCI/L

0.25

PCI/L

1.4

PCI/L

1000.

MG/L

1.2

0.11

NTU

13.

0.84

MG/L

1.6

PCI/L

Not Reported

Not Reported

1700. US

TC5631677.2s Page A-16

Sample date: Chemical: Dlr:	14-APR-15 GROSS BETA MDA95 0.	Finding: Report units:	1.9 PCI/L
Sample date: Chemical: Dlr:	14-APR-15 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	200. MG/L
Sample date: Chemical: Dlr:	14-APR-15 BICARBONATE ALKALINITY 0.	Finding: Report units:	250. MG/L
Sample date: Chemical: Dlr:	14-APR-15 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	420. MG/L
Sample date: Chemical: Dlr:	14-APR-15 CALCIUM 0.	Finding: Report units:	94. MG/L
Sample date: Chemical: Dlr:	14-APR-15 MAGNESIUM 0.	Finding: Report units:	44. MG/L
Sample date: Chemical: Dlr:	14-APR-15 SODIUM 0.	Finding: Report units:	190. MG/L
Sample date: Chemical: Dlr:	14-APR-15 POTASSIUM 0.	Finding: Report units:	3.5 MG/L
Sample date: Chemical: Dlr:	14-APR-15 CHLORIDE 0.	Finding: Report units:	300. MG/L
Sample date: Chemical: Dlr:	14-APR-15 SULFATE 0.5	Finding: Report units:	210. MG/L
Sample date: Chemical: Dlr:	14-APR-15 FLUORIDE (F) (NATURAL-SOURCE) 0.1	Finding: Report units:	0.25 MG/L
Sample date: Chemical: Dlr:	14-APR-15 BORON 100.	Finding: Report units:	1500. UG/L
Sample date: Chemical: Dlr:	14-APR-15 VANADIUM 3.	Finding: Report units:	6.6 UG/L
Sample date: Chemical: Dlr:	14-APR-15 GROSS ALPHA COUNTING ERROR 0.	Finding: Report units:	0.33 PCI/L
Sample date: Chemical: Dlr:	14-APR-15 GROSS BETA COUNTING ERROR 0.	Finding: Report units:	2. PCI/L
Sample date: Chemical:	14-APR-15 TOTAL DISSOLVED SOLIDS	Finding: Report units:	1000. MG/L

Dlr:

Sample date: Chemical: Dlr:

14-APR-15 NITRATE (AS NO3) 2. 14-APR-15 TURBIDITY, LABORATORY 0.1

LANGELIER INDEX @ 60 C

0.

0.

14-APR-15

14-APR-15 AGGRSSIVE INDEX (CORROSIVITY) 0.

14-APR-15 NITRATE + NITRITE (AS N) 0.4

14-APR-15 **GROSS ALPHA MDA95** 0.

14-APR-15 PH, LABORATORY 0.

17-JUN-14 GROSS ALPHA COUNTING ERROR 0.

17-JUN-14 GROSS BETA COUNTING ERROR 0.

17-JUN-14 **GROSS ALPHA MDA95** 0.

17-JUN-14 **GROSS BETA MDA95** 0.

17-JUN-14 SPECIFIC CONDUCTANCE 0.

17-JUN-14 PH, LABORATORY 0.

0.

17-JUN-14 ALKALINITY (TOTAL) AS CACO3

17-JUN-14 BICARBONATE ALKALINITY 0.

Finding:	1.4
Report units:	Not Reported
Finding:	3.5
Report units:	MG/L
Finding:	8.5e-002
Report units:	NTU
Finding:	13.
Report units:	Not Reported
Finding:	780.
Report units:	MG/L
Finding:	1.3
Report units:	PCI/L
Finding:	8.
Report units:	Not Reported
Finding:	0.9
Report units:	PCI/L
Finding:	0.5
Report units:	PCI/L
Finding:	2.4
Report units:	PCI/L
Finding:	1.7
Report units:	PCI/L
Finding:	1600.
Report units:	US
Finding:	7.8
Report units:	Not Reported
Finding:	180.
Report units:	MG/L

Report units:

Finding:

220.

MG/L

Sample date: Chemical: Dlr:	17-JUN-14 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	370. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 CALCIUM 0.	Finding: Report units:	84. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 MAGNESIUM 0.	Finding: Report units:	39. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 SODIUM 0.	Finding: Report units:	180. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 POTASSIUM 0.	Finding: Report units:	3.8 MG/L
Sample date: Chemical: Dlr:	17-JUN-14 CHLORIDE 0.	Finding: Report units:	280. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 SULFATE 0.5	Finding: Report units:	200. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 FLUORIDE (F) (NATURAL-SOURCE) 0.1	Finding: Report units:	0.25 MG/L
Sample date: Chemical: Dlr:	17-JUN-14 BORON 100.	Finding: Report units:	1400. UG/L
Sample date: Chemical: Dlr:	17-JUN-14 VANADIUM 3.	Finding: Report units:	5.8 UG/L
Sample date: Chemical: Dlr:	17-JUN-14 SELENIUM 5.	Finding: Report units:	8.8 UG/L
Sample date: Chemical: Dlr:	17-JUN-14 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	1000. MG/L
Sample date: Chemical: Dlr:	17-JUN-14 LANGELIER INDEX @ 60 C 0.	Finding: Report units:	1. Not Reported
Sample date: Chemical: Dlr:	17-JUN-14 NITRATE (AS NO3) 2.	Finding: Report units:	3.5 MG/L
Sample date: Chemical: Dlr:	17-JUN-14 CARBON DIOXIDE 0.	Finding: Report units:	5700. UG/L
Sample date: Chemical:	17-JUN-14 TURBIDITY, LABORATORY	Finding: Report units:	8.1e-002 NTU

Dlr:

Sample date: Chemical: Dlr:

0. 17-JUN-14 NITRATE + NITRITE (AS N) 0.4

29-MAY-13 SPECIFIC CONDUCTANCE 0.

29-MAY-13 PH, LABORATORY 0.

0.1

17-JUN-14

29-MAY-13 AGGRSSIVE INDEX (CORROSIVITY) 0.

29-MAY-13 TURBIDITY, LABORATORY 0.1

29-MAY-13 NITRATE (AS NO3) 2.

29-MAY-13 TOTAL DISSOLVED SOLIDS 0.

29-MAY-13 FLUORIDE (F) (NATURAL-SOURCE) 0.1

29-MAY-13 SULFATE 0.5

29-MAY-13 CHLORIDE

0.

0.

29-MAY-13 POTASSIUM

29-MAY-13 SODIUM 0.

> 29-MAY-13 MAGNESIUM 0.

29-MAY-13 CALCIUM

0.

Finding: 12. AGGRSSIVE INDEX (CORROSIVITY) Not Reported Report units: Finding: 790. Report units: MG/L 1600. Finding: Report units: US Finding: 5.4 Report units: Not Reported Finding: 10. Report units: Not Reported Finding: 5.8e-002 Report units: NTU Finding: 4.8 Report units: MG/L Finding: 1000. Report units: MG/L Finding: 0.26 Report units: MG/L Finding: 220.

> Report units: MG/L 280. Finding: Report units: MG/L Finding: 3.8

> > Report units: MG/L

Finding: 190. Report units: MG/L

Finding: 46. Report units: MG/L

Finding: 97. Report units: MG/L

Sample date: Chemical: Dlr:

Sample date: Chemical:

HARDNESS (TOTAL) AS CACO3 0.
29-MAY-13 BICARBONATE ALKALINITY 0.

29-MAY-13

29-MAY-13

ALKALINITY (TOTAL) AS CACO3 0. 29-MAY-13 NITRATE + NITRITE (AS N) 0.4 23-JAN-13 VANADIUM 3. 23-JAN-13 SELENIUM 5. 23-JAN-13

TOTAL DISSOLVED SOLIDS 0. 23-JAN-13

NITRATE (AS NO3) 2. 23-JAN-13

BORON 100.

23-JAN-13 2.

23-JAN-13 FLUORIDE (F) (NATURAL-SOURCE) 0.1

23-JAN-13 SULFATE 0.5

23-JAN-13 CHLORIDE

POTASSIUM 0.

SODIUM 0.

0.

23-JAN-13 MAGNESIUM Finding: Report units: Finding: Report units: Finding: Report units: Finding:

430.

MG/L

240.

MG/L

200.

MG/L

1100.

MG/L

6.5

6.8

UG/L

960.

MG/L

3.2

MG/L

1500.

UG/L

2.6

UG/L

0.22

MG/L

200.

MG/L

260.

MG/L

3.6

MG/L

170.

UG/L

Report units: Finding: Report units: Finding: Report units: Finding: Report units:

Finding:

Finding:

Finding:

Finding:

Finding:

Finding:

Finding:

Finding:

Report units:

Finding: Report units:

ARSENIC

23-JAN-13

23-JAN-13

MG/L 46.

MG/L

Finding:

Report units:

95.

MG/L

430.

MG/L

250.

MG/L

200.

MG/L

7.8

1600.

US

5.

UNITS

730.

MG/L

7300.

UG/L

0.11

NTU

13.

Not Reported

Not Reported

Dlr:

Sample date: Chemical: Dlr:

0. 23-JAN-13 HARDNESS (TOTAL) AS CACO3 0. 23-JAN-13 **BICARBONATE ALKALINITY** 0. 23-JAN-13

ALKALINITY (TOTAL) AS CACO3 0. 23-JAN-13

PH, LABORATORY 0.

0.

23-JAN-13

CALCIUM

23-JAN-13 SPECIFIC CONDUCTANCE 0.

23-JAN-13 COLOR 0.

23-JAN-13 NITRATE + NITRITE (AS N) 0.4

23-JAN-13 0.

wsw

1/2 - 1 Mile Higher

CARBON DIOXIDE

AGGRSSIVE INDEX (CORROSIVITY)

23-JAN-13 TURBIDITY, LABORATORY 0.1 23-JAN-13

0.

Organization ID:

FED USGS

USGS40000186264

.

10003 Reported Reported

Reported

Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units:

USGS-CA USGS California Water Science Center 001N002E03R001M T Not Reported Н D Not Reported Not Reported С Central Valley aquifer system Not Reported A W 19741028 W ft

ype:	Well
IUC:	1804
Prainage Area Units:	Not F
Contrib Drainage Area Unts:	Not F
auifer Type:	Not F
1 71	
Vell Depth:	90
Vell Hole Depth:	102

Well Hole Depth Units:	ft		
Ground water levels,Numbe Feet below surface: Note:	r of Measurements: 1 29.00 Not Reported	Level reading date: Feet to sea level:	1974-10-28 Not Reported
W '2 - 1 Mile igher		FED	JSGS USGS400001862
Organization ID:	USGS-CA	-	
Organization Name:	USGS California Water Science		
Monitor Location:	001N002E11E001M	Туре:	Well
Description:	Not Reported	HUC:	18040003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19740416	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	85
Well Hole Depth Units:	ft		
Feet below surface: Note:	38.00 Not Reported	Feet to sea level:	Not Reported
SW 2 - 1 Mile		FED	JSGS USGS400001862
SW 2 - 1 Mile igher	USGS-CA	FED	JSGS USGS400001862
SW /2 - 1 Mile igher Organization ID:	USGS-CA USGS California Water Science		JSGS USGS400001862
SW 2 - 1 Mile igher Organization ID: Organization Name:	USGS California Water Science	Center	
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location:	USGS California Water Science 001N002E11F001M	Center Type:	Well
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description:	USGS California Water Science 001N002E11F001M Not Reported	Center Type: HUC:	Well 18040003
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area:	USGS California Water Science 001N002E11F001M Not Reported Not Reported	Center Type: HUC: Drainage Area Units:	Well 18040003 Not Reported
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Not Reported	Center Type: HUC:	Well 18040003
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Not Reported Central Valley aquifer system	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts:	Well 18040003 Not Reported Not Reported
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Not Reported Central Valley aquifer system Not Reported	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts: Aquifer Type:	Well 18040003 Not Reported Not Reported Not Reported
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Not Reported Central Valley aquifer system	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts: Aquifer Type: Well Depth:	Well 18040003 Not Reported Not Reported
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Not Reported Central Valley aquifer system Not Reported 19741011	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts: Aquifer Type:	Well 18040003 Not Reported Not Reported Not Reported 65
Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units: Ground water levels,Numbe	USGS California Water Science 001N002E11F001M Not Reported Not Reported Central Valley aquifer system Not Reported 19741011 ft ft t	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts: Aquifer Type: Well Depth: Well Hole Depth: Level reading date:	Well 18040003 Not Reported Not Reported 65 78
SW 2 - 1 Mile igher Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	USGS California Water Science 001N002E11F001M Not Reported Not Reported Central Valley aquifer system Not Reported 19741011 ft	Center Type: HUC: Drainage Area Units: Contrib Drainage Area Unts: Aquifer Type: Well Depth: Well Hole Depth:	Well 18040003 Not Reported Not Reported 65 78

Map ID Direction Distance

Database EDF

EDR ID Number

1 South 1/8 - 1/4 Mile			OIL_GAS	CAOG11000232766
Districtnu:	6	Apinumber:	01320181	
Blmwell:	Ν	Redrillcan:	Not Repor	ted
Dryhole:	Υ	Wellstatus:	P	
Operatorna:	Venada National	Countyname:	Contra Co	sta
Fieldname:	Any Field	Areaname:	Any Area	
Section:	2	Township:	01N	
Range:	02E	Basemeridi:	MD	
Elevation:	102	Locationde:	Not Repor	ted
Gissourcec:	hud	Comments:	Status Coo	de 007
Leasename:	Fairview	Wellnumber:	2-1	
Epawell:	Ν	Hydraulica:	Ν	
Confidenti:	Ν	Spuddate:	14-AUG-8	1
Welldeptha:	6750	Redrillfoo:	0	
Abandonedd:	06-SEP-81	Completion:	Not Repor	ted
Directiona:	Directionally drilled	Gissymbol:	PDH	
Site id:	CAOG11000232766	-		

2 SSW 1/4 - 1/2 Mile

Districtnu: 6 Apinumber: 01320288 Blmwell: Ν Redrillcan: Not Reported Dryhole: Υ Wellstatus: Р TXO Production Corp. Operatorna: Contra Costa Countyname: Fieldname: Any Field Areaname: Any Area Section: 2 Township: 01N 02E MD Range: Basemeridi: Not Reported Locationde: Not Reported Elevation: Status Code 007 Gissourcec: hud Comments: Shaffer Wellnumber: Leasename: 2-1 Hydraulica: Epawell: Ν Ν Confidenti: Ν Spuddate: 21-OCT-89 Redrillfoo: Welldeptha: 5802 0 Abandonedd: 01-NOV-89 Completion: Not Reported Directiona: Directionally drilled Gissymbol: PDH Site id: CAOG11000232881

A4 SW

1/2 - 1 Mile

Districtnu:	6	Apinumber:	(
Blmwell:	Ν	Redrillcan:	1
Dryhole:	Ν	Wellstatus:	F
Operatorna:	Western Continental Operating	g Company	
Countyname:	Contra Costa	Fieldname:	I
Areaname:	South	Section:	2
Township:	01N	Range:	(
Basemeridi:	MD	Elevation:	
Locationde:	Not Reported	Gissourcec:	(
Comments:	GPS Date 04/15/1997, Status	Code 116	

OIL_GAS

OIL_GAS

CAOG11000232871

CAOG11000232881

01320280 Not Reported P

River Break Gas 2 02E 120 gps

Leasename:	Martin	Wellnumber:	1
Epawell:	Ν	Hydraulica:	Ν
Confidenti:	Ν	Spuddate:	16-JUN-88
Welldeptha:	5595	Redrillfoo:	0
Abandonedd:	27-DEC-97	Completion:	11-JUL-88
Directiona:	Unknown	Gissymbol:	PDG
Site id:	CAOG11000232871	-	

A3 SW 1/2 - 1 Mile

/2 - 1 Mile				
Districtnu:	6	Apinumber:	01320280	
Blmwell:	Ν	Redrillcan:	Not Reported	
Dryhole:	Ν	Wellstatus:	P	
Operatorna:	Western Continental Operating C	Company		
Countyname:	Contra Costa	Fieldname:	River Break Gas	
Areaname:	South	Section:	2	
Township:	01N	Range:	02E	
Basemeridi:	MD	Elevation:	120	
Locationde:	Not Reported	Gissourcec:	gps	
Comments:	GPS Date 04/15/1997, Status Co	ode 116		
Leasename:	Martin	Wellnumber:	1	
Epawell:	Ν	Hydraulica:	N	
Confidenti:	Ν	Spuddate:	16-JUN-88	
Welldeptha:	5595	Redrillfoo:	0	
Abandonedd:	27-DEC-97	Completion:	11-JUL-88	
Directiona:	Unknown	Gissymbol:	PDG	
Site id:	CAOG11000232873			

A5 SW 1/2 -

l/2 - 1 Mile				
Districtnu:	6	Apinumber:	01320280	
Blmwell:	Ν	Redrillcan:	Not Reported	
Dryhole:	Ν	Wellstatus:	P	
Operatorna:	Western Continental Operating Co	mpany		
Countyname:	Contra Costa	Fieldname:	River Break Gas	
Areaname:	South	Section:	2	
Township:	01N	Range:	02E	
Basemeridi:	MD	Elevation:	120	
Locationde:	Not Reported	Gissourcec:	gps	
Comments:	GPS Date 04/15/1997, Status Cod	le 116		
Leasename:	Martin	Wellnumber:	1	
Epawell:	Ν	Hydraulica:	N	
Confidenti:	Ν	Spuddate:	16-JUN-88	
Welldeptha:	5595	Redrillfoo:	0	
Abandonedd:	27-DEC-97	Completion:	11-JUL-88	
Directiona:	Unknown	Gissymbol:	PDG	
Site id:	CAOG11000232872			

OIL_GAS

OIL_GAS

CAOG11000232873

CAOG11000232872

Map ID Direction Distance

Database

EDR ID Number

B6 WSW 1/2 - 1 Mile			OIL_GAS	CAOG11000232882
Districtnu:	6	Apinumber:	01320289	
Blmwell:	Ν	Redrillcan:	Not Repor	ted
Dryhole:	Ν	Wellstatus:	P	
Operatorna:	EOG Resources, Inc.	Countyname:	Contra Co	sta
Fieldname:	River Break Gas	Areaname:	South	
Section:	2	Township:	01N	
Range:	02E	Basemeridi	MD	
Elevation:	Not Reported	Locationde:	Not Repor	ted
Gissourcec:	gps	Comments:	GPS Date	04/15/1997, Status Code 006
Leasename:	Sunset-Sleeter	Wellnumber:	1-3	
Epawell:	Ν	Hydraulica:	Ν	
Confidenti:	Ν	Spuddate:	03-JUN-89)
Welldeptha:	6752	Redrillfoo:	0	
Abandonedd:	22-SEP-94	Completion:	23-JUN-89)
Directiona:	Unknown	Gissymbol:	PDG	
Site id:	CAOG11000232882	·		

7 . North 1/2 - 1 Mile

Districtnu: 6 Apinumber: 01320183 Blmwell: Ν Redrillcan: Not Reported Dryhole: Υ Wellstatus: Р Natural Gas Corp. of Calif. Operatorna: Contra Costa Countyname: Fieldname: Any Field Areaname: Any Area Section: 35 Township: 02N 02E MD Range: Basemeridi: 99 Locationde: Not Reported Elevation: Status Code 006 Gissourcec: hud Comments: Transamerica Wellnumber: Leasename: 58 Epawell: Ν Hydraulica: Ν Confidenti: Ν Spuddate: 31-JUL-81 Redrillfoo: Welldeptha: 7413 0 Abandonedd: 26-AUG-81 Completion: Not Reported Directiona: Unknown Gissymbol: PDH Site id: CAOG11000232768

8 NW 1/2 - 1 Mile

Districtnu:	6	Apinumber:	01300252
Blmwell:	Ν	Redrillcan:	Not Reporte
Dryhole:	Y	Wellstatus:	P
Operatorna:	Shell Western Exploration & P	roduction Inc.	
Countyname:	Contra Costa	Fieldname:	River Break
Areaname:	South	Section:	2
Township:	01N	Range:	02E
Basemeridi:	MD	Elevation:	Not Reporte
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Status Code 006	Leasename:	Carpenter

OIL_GAS CAOG11000232768

OIL_GAS

CAOG11000232540

ted

ak Gas ted

Wellnumber: Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol:

N 21-DEC-63 0 Not Reported PDH

1

Epawell: Confidenti: Welldeptha: Abandonedd: Directiona: Site id: N N 6565 02-JAN-64 Unknown CAOG11000232540

CAOG11000232543

B9 WSW 1/2 - 1 Mile OIL_GAS CAOG11000232034 Districtnu: 6 Apinumber: 01320313 Blmwell: Ν Redrillcan: Not Reported Dryhole: Wellstatus: Ν Ρ Western Continental Operating Company Operatorna: Countyname: Contra Costa Fieldname: **River Break Gas** South Areaname: Section: 2 01N Range: 02E Township: Basemeridi: MD Elevation: Not Reported Locationde: Not Reported Gissourcec: hud Comments: Status Code 024 Leasename: Hart Wellnumber: Epawell: 2 Ν Confidenti: Hydraulica: Ν Ν Spuddate: 14-AUG-92 Welldeptha: 5455 Redrillfoo: Abandonedd: 10-OCT-94 0 Completion: 26-AUG-92 Directiona: Unknown Gissymbol: PDG Site id: CAOG11000232034

10 SSW 1/2 - 1 Mile

Districtnu:	6	Apinumber:	01300255
Blmwell:	Ň	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Shell Western Exploration & Pr	oduction Inc.	
Countyname:	Contra Costa	Fieldname:	River Break Gas
Areaname:	South	Section:	11
Township:	01N	Range:	02E
Basemeridi:	MD	Elevation:	Not Reported
Locationde:	Not Reported	Gissourcec:	hud
Comments:	Status Code 006	Leasename:	Maggiore
Wellnumber:	1-11	Epawell:	N
Hydraulica:	Ν	Confidenti:	Ν
Spuddate:	31-JUL-63	Welldeptha:	6155
Redrillfoo:	0	Abandonedd:	09-AUG-63
Completion:	Not Reported	Directiona:	Unknown
Gissymbol:	PDH	Site id:	CAOG11000232543

11 ESE OIL_GAS CAOG11000232539 1/2 - 1 Mile Districtnu: Apinumber: 01300251 6 Redrillcan: Blmwell: Ν Not Reported Y Dryhole: Wellstatus: Ρ

OIL_GAS

Operatorna: Countyname: Areaname: Township: Basemeridi: Locationde: Comments: Wellnumber: Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol: Shell Western Exploration & Production Inc. Contra Costa Any Area 01N MD Not Reported Status Code 006 3-1 N 06-MAR-63 0 Not Reported PDH

Fieldname: Section: Range: Elevation: Gissourcec: Leasename: Epawell: Confidenti: Welldeptha: Abandonedd: Directiona: Site id:

Apinumber:

Redrillcan:

Wellstatus:

Areaname:

Township:

Basemeridi:

Locationde:

Comments:

Hydraulica:

Spuddate:

Redrillfoo:

Completion:

Gissymbol:

Wellnumber:

Countyname:

Any Field 1 02E Not Reported hud Prewett N 7525 21-MAR-63 Unknown CAOG11000232539

OIL_GAS CAOG11000232829

01320239 Not Reported P Contra Costa Any Area 01N MD Not Reported Status Code 007 1-1 N 10-SEP-84 0 Not Reported PDH

13 ENE

12 ESE

1/2 - 1 Mile Districtnu:

Blmwell:

Dryhole:

Section:

Range:

Elevation: Gissourcec:

Epawell:

Confidenti:

Welldeptha:

Directiona:

Site id:

Abandonedd:

Leasename:

Operatorna:

Fieldname:

6

Ν

Ν

1 02E

hud

Ν

Ν

7496

27-OCT-85

Venada National

Not Reported

Prewett-Lamport

Directionally drilled

CAOG11000232829

Oakley, South, Gas

1/2 - 1 Mile

Districtnu: Blmwell: Dryhole: Operatorna: Countyname: Areaname: Township: Basemeridi: Locationde: Comments: Wellnumber: Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol:

6	Apinumber:	01
Ν	Redrillcan:	No
Υ	Wellstatus:	Р
Shell Western Exploration & Produc	tion Inc.	
Contra Costa	Fieldname:	Ar
Any Area	Section:	1
01N	Range:	02
MD	Elevation:	No
Not Reported	Gissourcec:	hu
Status Code 006	Leasename:	Cu
1-1	Epawell:	N
Ν	Confidenti:	N
18-SEP-63	Welldeptha:	76
0	Abandonedd:	02
Not Reported	Directiona:	Ur
PDH	Site id:	C/

OIL_GAS CAOG11000232538

01300250 Not Reported P Any Field 1 02E Not Reported hud Cunha N N 7694 02-OCT-63 Unknown CAOG11000232538

TC5631677.2s Page A-28

Map ID
Direction
Distance

Database

EDR ID Number

14 SW 1/2 - 1 Mile			OIL_GAS	CAOG11000232038
Districtnu:	6	Apinumber:	01320317	
Blmwell:	Ν	Redrillcan:	Not Report	ted
Dryhole:	Ν	Wellstatus:	P	
Operatorna:	Western Continental Operating	Company		
Countyname:	Contra Costa	Fieldname:	River Brea	k Gas
Areaname:	South	Section:	11	
Township:	01N	Range:	02E	
Basemeridi:	MD	Elevation:	134	
Locationde:	Not Reported	Gissourcec:	hud	
Comments:	Status Code 025	Leasename:	Gas Unit D)
Wellnumber:	1-11	Epawell:	Ν	
Hydraulica:	Ν	Confidenti:	Ν	
Spuddate:	17-MAY-93	Welldeptha:	4849	
Redrillfoo:	0	Abandonedd:	18-JUN-94	
Completion:	10-JUN-93	Directiona:	Directional	ly drilled
Gissymbol:	PDG	Site id:	CAOG110	00232038

15 WNW 1/2 - 1 Mile

OIL_GAS CAOG11000232376 Districtnu: 6 Apinumber: 01300031 Blmwell: Ν Redrillcan: Not Reported Υ Dryhole: Wellstatus: Р Shell Western Exploration & Production Inc. Operatorna: Countyname: Contra Costa Fieldname: Brentwood (ABD) Areaname: Any Area Section: 3 01N 02E Township: Range: Basemeridi: MD Elevation: Not Reported Locationde: Not Reported Gissourcec: hud Comments: Status Code 006 Continente Leasename: Wellnumber: 2-3 Epawell: Ν Hydraulica: Ν Confidenti: Ν Welldeptha: Spuddate: 09-SEP-64 5912 Redrillfoo: Abandonedd: 19-SEP-64 0 Completion: Not Reported Directiona: Unknown Gissymbol: PDH Site id: CAOG11000232376

16 NW

1/2 - 1 Mile

Districtnu:	6	Apinumber:	01320201	
Blmwell:	Ν	Redrillcan:	Not Reported	
Dryhole:	Y	Wellstatus:	P	
Operatorna:	Natural Gas Corp. of Calif.	Countyname:	Contra Costa	
Fieldname:	River Break Gas	Areaname:	Main	
Section:	35	Township:	02N	
Range:	02E	Basemeridi:	MD	
Elevation:	Not Reported	Locationde:	Not Reported	
Gissourcec:	hud	Comments:	Status Code 006	
Leasename:	Western-Napolitano	Wellnumber:	1-35	

OIL_GAS

CAOG11000232786

Epawell: Confidenti: Welldeptha: Abandonedd: Directiona: Site id:

17 SE 1/2 - 1 Mile

Districtnu: Blmwell: Dryhole: Operatorna: Fieldname: Section: Range: Elevation: Gissourcec: Leasename: Epawell: Confidenti: Welldeptha: Abandonedd: Directiona: Site id:

N N 6197 09-FEB-83 Unknown CAOG11000232786

6

6

Ν

Y

12

02E

hud

Ν

Ν

7254

Any Field

Not Reported

S & S Farms

22-MAY-84

Directionally drilled

CAOG11000232815

Reichhold Energy Corp.

Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol:

Apinumber:

Redrillcan:

Wellstatus:

Areaname:

Township:

Basemeridi:

Locationde:

Comments:

Wellnumber:

Countyname:

N 30-JAN-83 0 Not Reported PDH

OIL_GAS

CAOG11000232596

01320359 Not Reported P Contra Costa Any Area 01N MD Not Reported Status Code 007 1 N 16-JAN-01 0 Not Reported PDH

18 SE 1/2 - 1 Mile

Districtnu:

Blmwell: Dryhole: Operatorna: Fieldname: Section: Range: Elevation: Gissourcec: Leasename: Epawell: Confidenti: Welldeptha: Abandonedd: Directiona: Site id: N Y Production Specialties Company Any Field 12 02E 83 hud Disco Inferno N N 7053 27-JAN-01 Directionally drilled CAOG11000232596

Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol:

Apinumber: Redrillcan: Wellstatus: Countyname: Areaname: Township: Basemeridi: Locationde: Comments: Wellnumber: Hydraulica: Spuddate: Redrillfoo: Completion: Gissymbol: OIL_GAS

CAOG11000232815

01320230 Not Reported P Contra Costa Any Area 01N MD Not Reported Status Code 007 12-1 N 26-APR-84 0 Not Reported PDH

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94513	5	0

Federal EPA Radon Zone for CONTRA COSTA 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 CONTRA COSTA COUNTY, CA

Number of sites tested: 55

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.760 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.300 pCi/L	100%	0%	0%
Basement	0.525 pCi/L	100%	0%	0%

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 B: USER QUESTIONNAIRE(S)

PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Pursuant to the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13), in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

The "User" is defined in the ASTM E 1527-13 standard as the party seeking to use Practice E 1527 to complete an environmental site assessment of the Site. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.

Thank you for taking the time to complete this questionnaire. If you have any questions, please call Glenn Young at 510.500.5574 or gyoung@trcsolutions.com

	Date: 4-25-19
User Name: Brian S. Kesler	Datt. 100 11
Company: Cyrus Land Finestments, LLC	
Address: 4021 Port Chicago Hwy	
Concord, CA 94520	
Telephone No.: (925) 766-5769	
E-mail Address: blacker & seen ohomes. com	
Signatures m. M. Huch	
Site Name & Address: Grannin, Property APN 018-080-025	
Brentwood CA 945	13

Purpose of ASTM Phase I (potential purchase, potential sale, re-finance, update the environmental condition of the Site, Lease termination or initiation, etc.)

Yes

Purchase

(1.) Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the Site under federal, tribal, state or local law?

NOTE 1 — In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Activity and land use limitations (AULs) that are in place on the Site or that have been (2.) filed or recorded against the Site (40 CFR 312.26(a)(1)(v) and (vi)) Yes Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded against the Site under federal, tribal, state or local law? (3.) Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protection (LLP) (40 CFR 312.28) No Yes Do you have any specialized knowledge or experience related to the property or nearby X properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? (4.) Relationship of the purchase price to the fair market value of the Site property (40 CFR 312.29) Does the purchase price being paid for the Site property reasonably reflect the fair market value Yes No of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? (5.) Commonly known or reasonably ascertainable information regarding the Site property (40 CFR 312.30) Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, Yes (a.) Can you provide any information regarding the past uses of the Site? (b.) Can you provide any information regarding specific chemicals that are present or once were present at the Site? (c.) Can you provide any information regarding spills or other chemical releases that have occurred at the Site? (d.) Can you provide any information regarding any environmental cleanups that have occurred at the Site?

(6.) The degree of obviousness of the presence or likely presence of contamination at the Site, Yes and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) Based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of releases at the Site? (7.) **Proceedings Involving the Site** Are you aware of: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site; (2) any pending, threatened, or past Yes administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site? (8.) **Questions Regarding Helpful Documents** Are you aware of the presence of any of the documents listed below and, if so, whether copies can and will be provided to TRC within reasonable time and cost constraints? Yes No Environment site assessment reports Environment compliance audit reports Environmental permits (e.g., solid waste disposal permits; hazardous waste disposal permits; wastewater permits; National Pollutant Discharge Elimination System [NPDES] permits; or underground injection permits) Registrations for underground and aboveground storage tanks Registrations for underground injection systems 1 Material Safety Data Sheets (MSDSs) Community Right-To-Know plan(s) 1.1 Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc., Reports regarding hydrogeologic conditions at the Site and surrounding area Notices or other correspondence from any government agency regarding current or previous violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site property Hazardous waste generator notices or reports Geotechnical studies (adjacent Property) X **Risk** assessments Recorded AULs.

APPENDIX C: HISTORICAL RESEARCH DOCUMENTATION

Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513

Inquiry Number: 5631677.8 April 25, 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

Site Name:

Client Name:

04/25/19

Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513 EDR Inquiry # 5631677.8 TRC 505 Sansome Street Suite 1600 San Francisco, CA 94111 Contact: Glenn Young



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	<u>Scale</u>	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 16, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 29, 1984	USDA
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1972	1"=500'	Flight Date: July 06, 1972	USDA
1966	1"=500'	Flight Date: May 16, 1966	USDA
1963	1"=500'	Flight Date: July 15, 1963	EDR Proprietary Aerial Viewpoint
1959	1"=500'	Flight Date: April 11, 1959	USDA
1949	1"=500'	Flight Date: October 13, 1949	USGS
1939	1"=500'	Flight Date: June 28, 1939	USDA

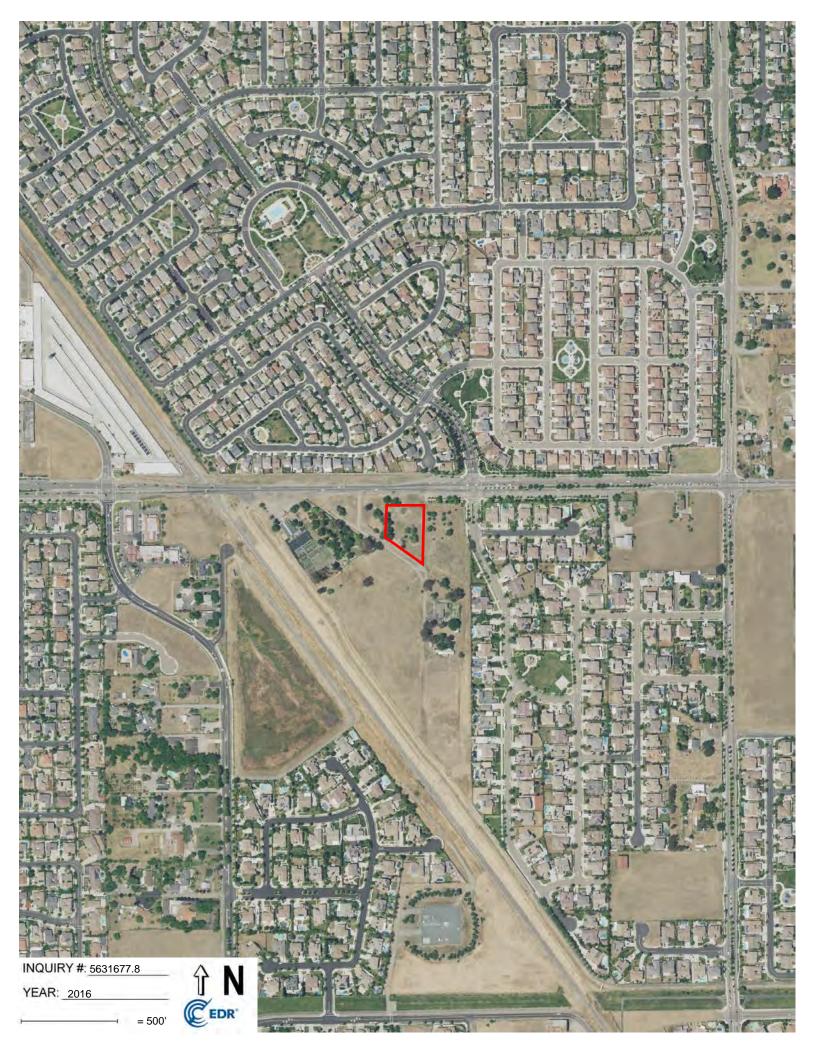
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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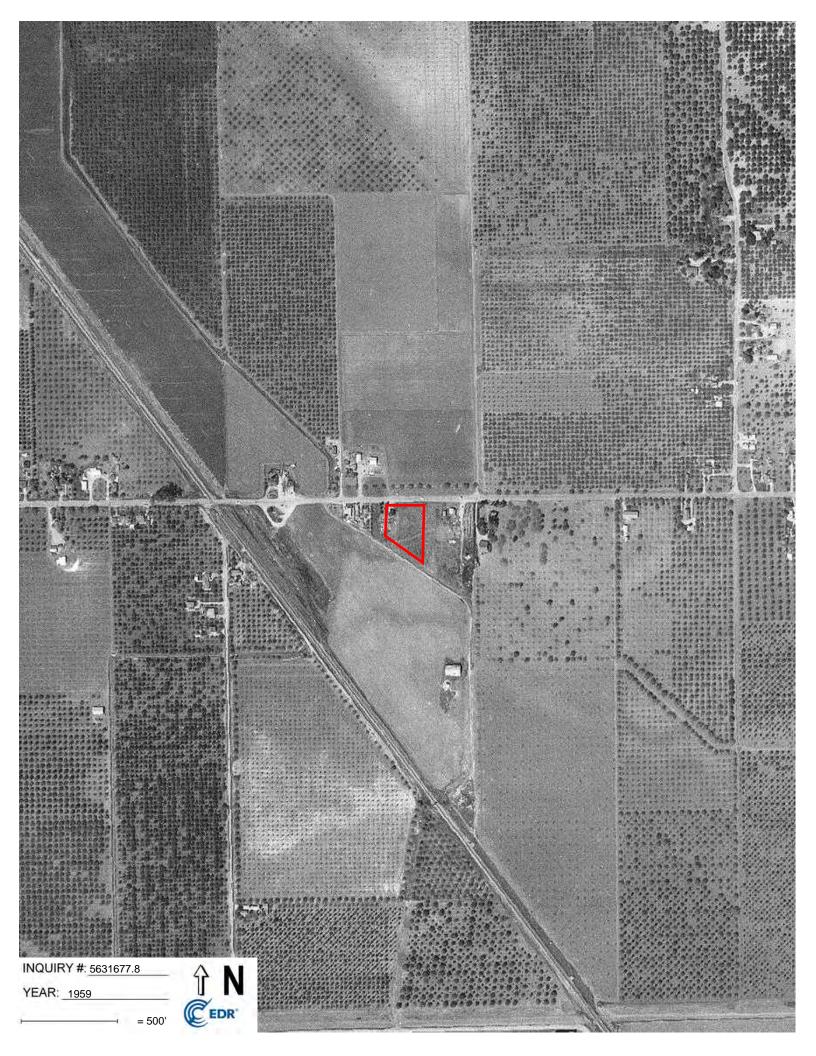




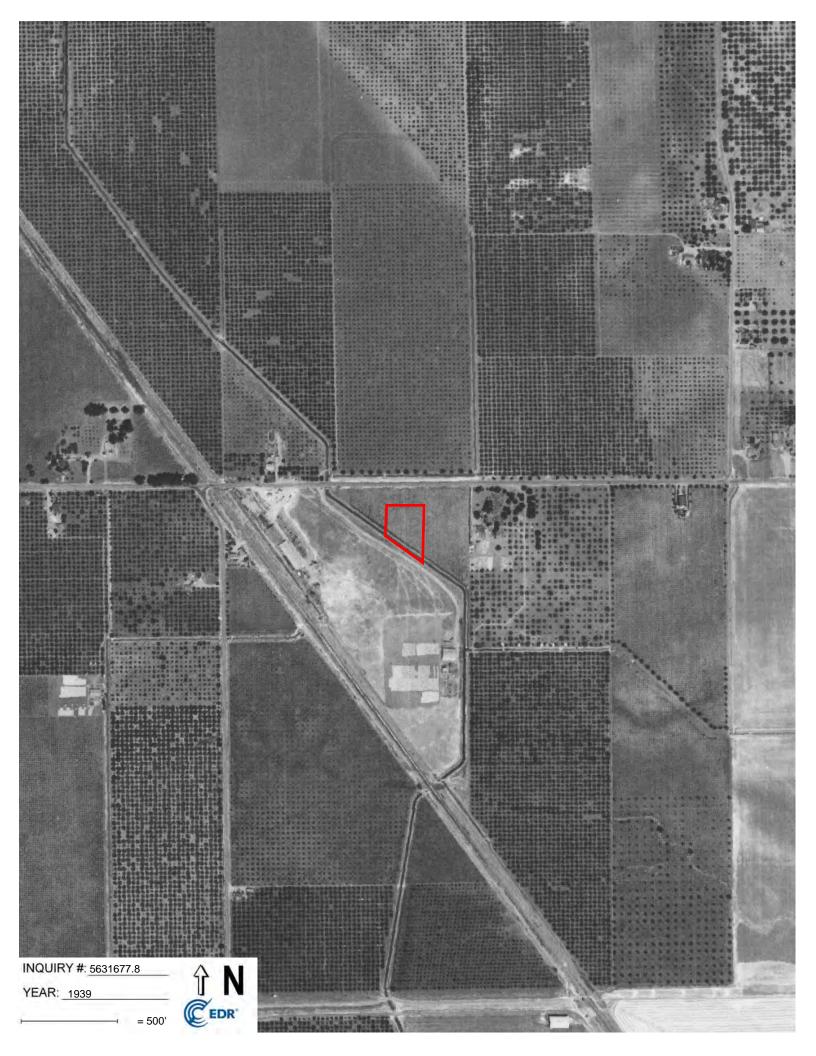












Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513

Inquiry Number: 5631677.4 April 24, 2019

EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Site Name:

Client Name:

Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513 EDR Inquiry # 5631677.4 TRC 505 Sansome Street Suite 1600 San Francisco, CA 94111 Contact: Glenn Young



04/24/19

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by TRC 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 Resu	ults:	Coordinates:	
P.O.#	338571	Latitude:	37.961034 37° 57' 40" North
Project:	Lone Tree Way, Brentwood	Longitude:	-121.719892 -121° 43' 12" West
-		UTM Zone:	Zone 10 North
		UTM X Meters:	612451.80
		UTM Y Meters:	4202264.47
		Elevation:	91.17' above sea level
Maps Provid	led:		
2012			
1978			
1968			
1954			
1943			
1940			
1916			
1914			

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Brentwood 2012 7.5-minute, 24000

1978 Source Sheets



Brentwood 1978 7.5-minute, 24000 Aerial Photo Revised 1974

1968 Source Sheets



Brentwood 1968 7.5-minute, 24000 Aerial Photo Revised 1968

1954 Source Sheets



Brentwood 1954 7.5-minute, 24000 Aerial Photo Revised 1949

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



BYRON 1943 15-minute, 62500

1940 Source Sheets



Byron 1940 15-minute, 62500 Aerial Photo Revised 1940

1916 Source Sheets



Byron 1916 15-minute, 62500

1914 Source Sheets



Brentwood 1914 7.5-minute, 31680





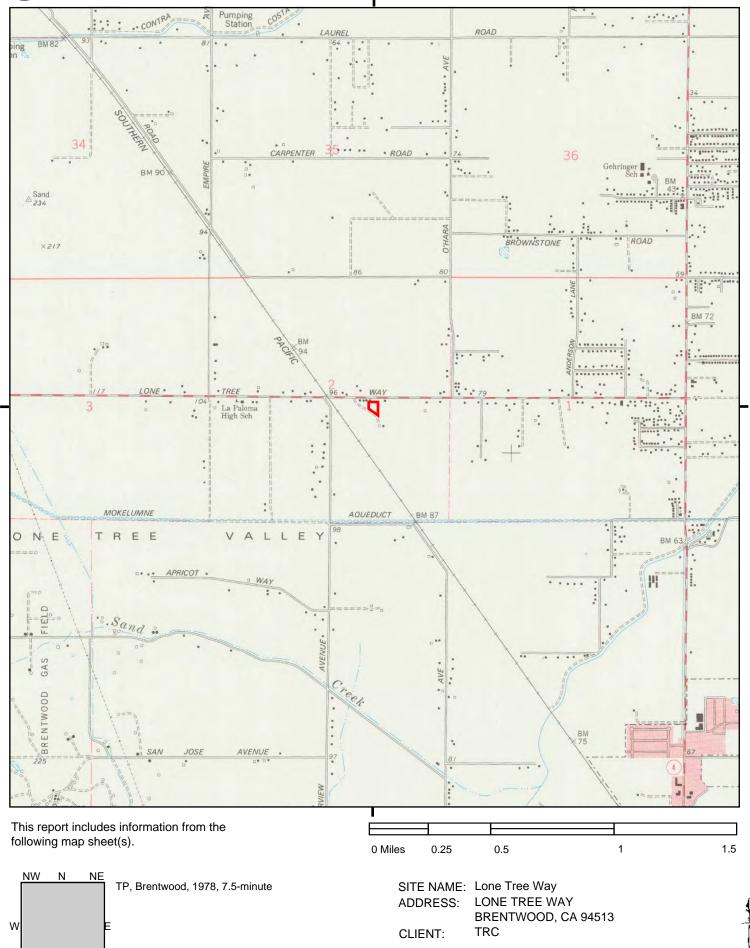
SW

S

SE

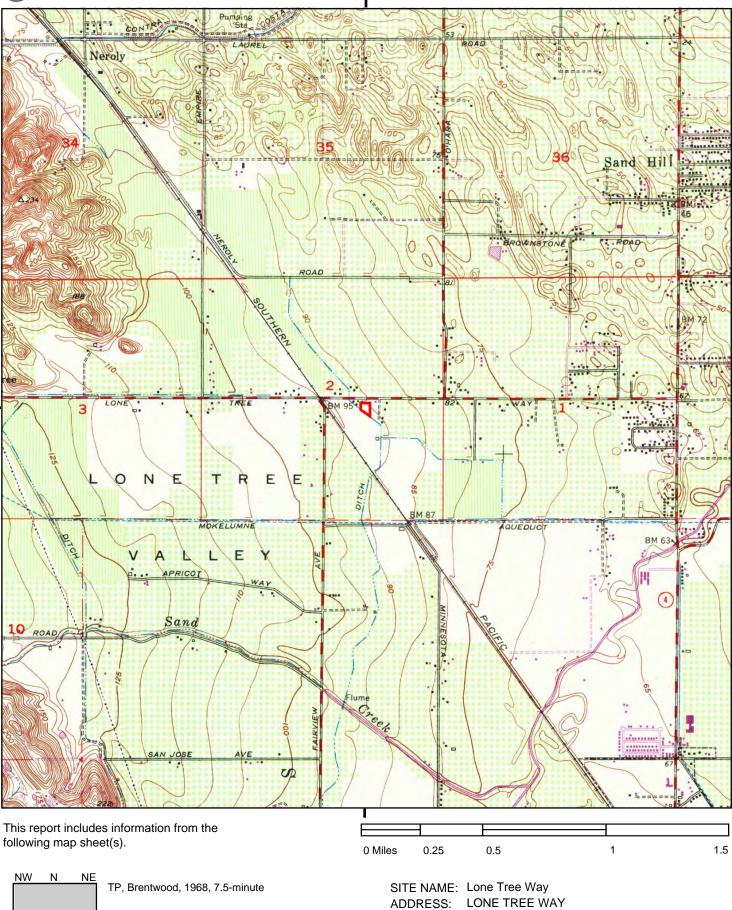
Historical Topo Map

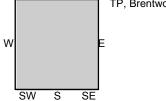
1978





Historical Topo Map

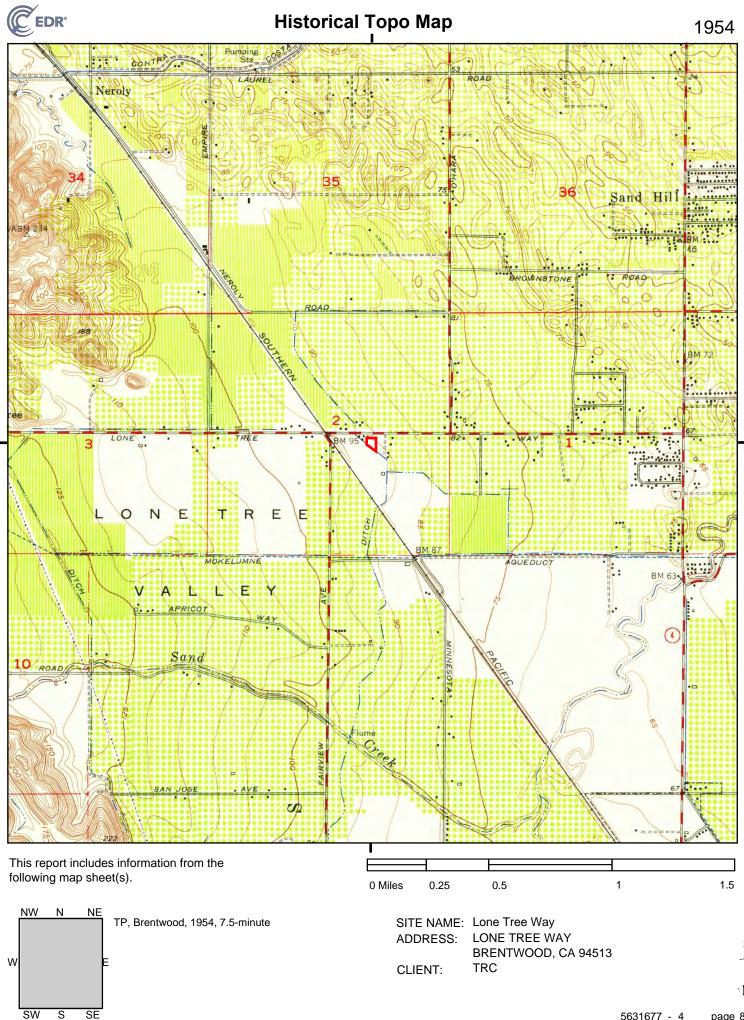


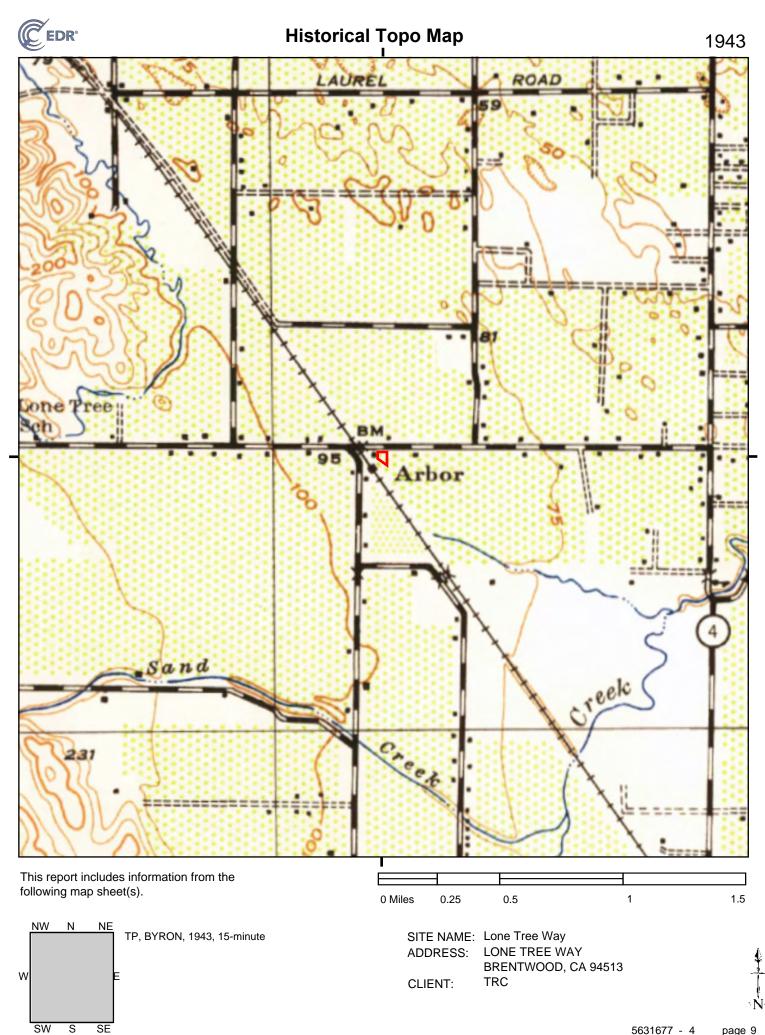


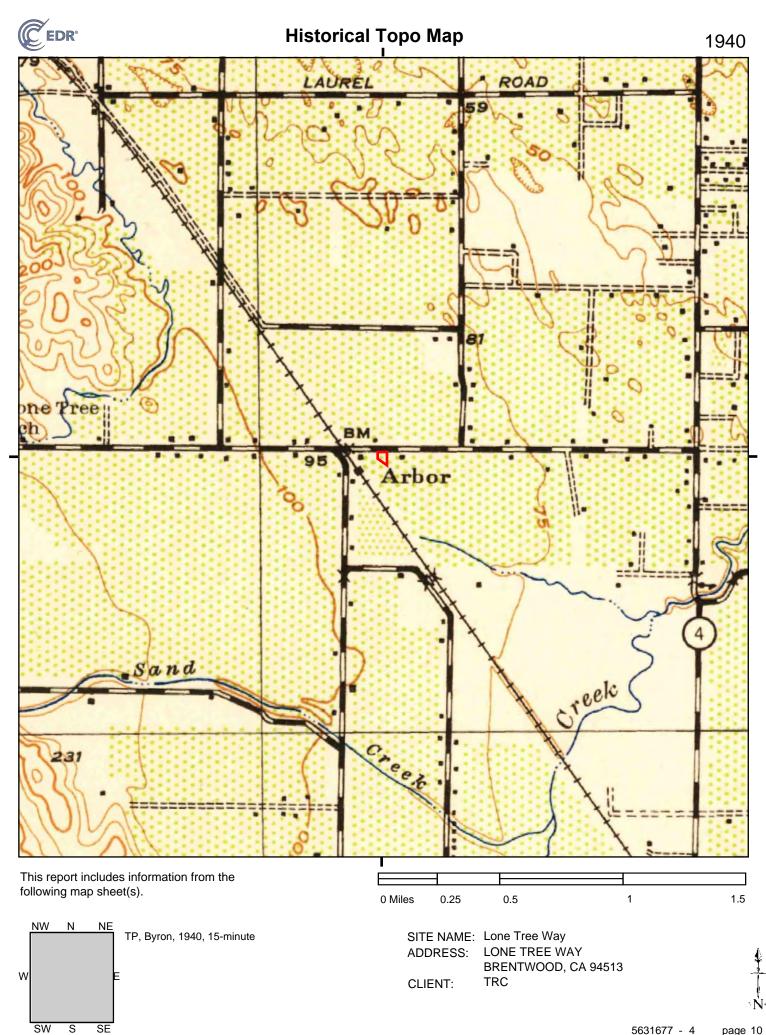
BRENTWOOD, CA 94513

TRC

CLIENT:









SW

S

SE

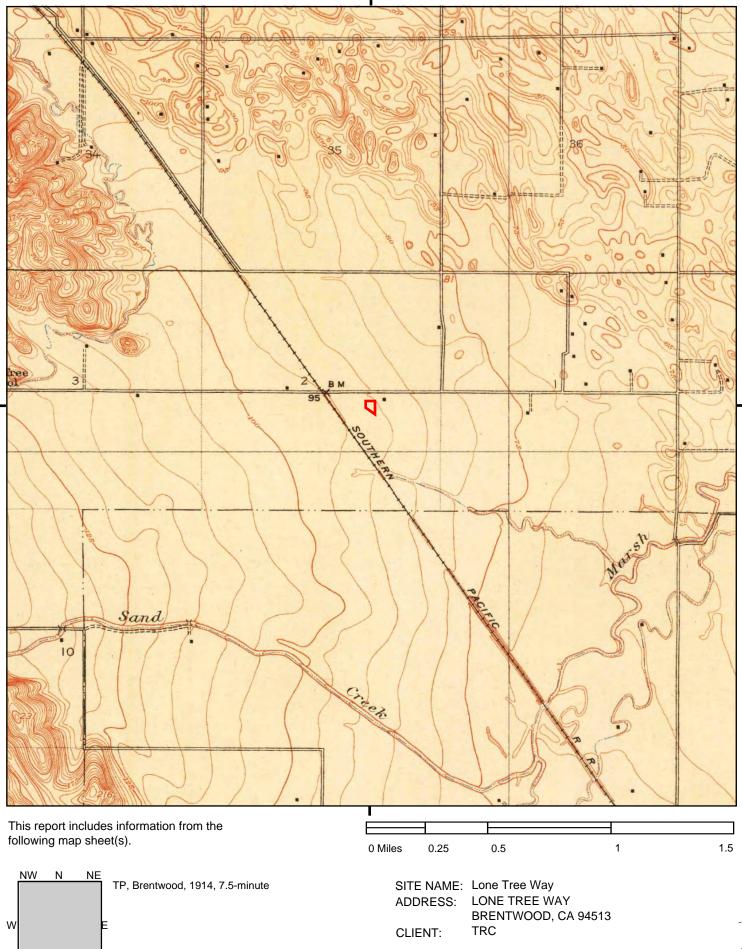


SW

S

SE

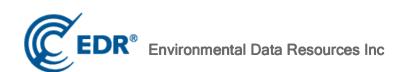
Historical Topo Map



Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513

Inquiry Number: 5631677.5 April 25, 2019

The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

TABLE OF CONTENTS

SECTION

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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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

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. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	<u>Cross Street</u>	<u>Source</u>
2014	\checkmark		EDR Digital Archive
2010	\checkmark		EDR Digital Archive
2005	\checkmark		EDR Digital Archive
2000	\checkmark		EDR Digital Archive
1995	\checkmark		EDR Digital Archive
1992	\checkmark		EDR Digital Archive
1989			Haines Criss-Cross Directory
1985			Haines Criss-Cross Directory
1980			Haines Criss-Cross Directory
1975			Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

LONE TREE WAY BRENTWOOD, CA 94513

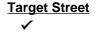
<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
LONE TRE	E WAY		
2014	pg A2	EDR Digital Archive	
2010	pg A6	EDR Digital Archive	
2005	pg A10	EDR Digital Archive	
2000	pg A13	EDR Digital Archive	
1995	pg A16	EDR Digital Archive	
1992	pg A17	EDR Digital Archive	
1989	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1985	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1980	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1975	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

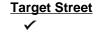
City Directory Images



-

LONE TREE WAY 2014

5401	BLUEFIN ENTERPRISES INC
5401	CHIPOTLE MEXICAN GRILL INC
	LONE TREE THAI CUISINE
5411	5 STAR WIRELESS
5411	
	KINDERS CUSTOM MEATS INC
	PEETS COFFEE & TEA INC
	TAVO INCORPORATED
	TAVOS PIZZERIA RESTAURANT
5421	ALDOS SHOE REPAIR & STORE
• • = •	LONE TREE DENTAL GROUP
	SCRUB MED MEDICAL SUPPLY
5451	TRADER JOES COMPANY
5461	BABIES R US
	TOYS R US INC
5471	BROWN GROUP RETAIL INC
5481	PETCO ANIMAL SUPS STORES INC
5491	SMART FINAL 524
5501	MICHAELS STORES INC
5511	KOHLS DEPARTMENT STORES INC
5521	TUESDAY MORNING CORPORATION
5541	BARCHIEL SKIN CARE STUDIO
	SPORT CLIPS
	SUVIA SALON SUITES
5551	SOUTHERN CAL DISC TIRE CO INC
	SOUTHERN CALIFDISCTTIRE COINC
5571	
5581	IN-N-OUT BURGERS
5591	
5601	AY CARAMBA LIME WIRELESS LLC
5611	ANGEL NAILS
5011	ARLENE COTAS DMD A PROF CORP
	CHAMAN KABOB RESTAURANT
	CREASIAN
5631	HOME DEPOT USA INC
6021	EAST BAY EQUIES
6031	AISAN INTL COMMODITIES
	DEVI OIL INC
	SAVINGS CLEANERS
6041	NATIONWIDE INSURANCE THOMAS
	OCCUPANT UNKNOWN,
6051	AJAX UNITED EAST BAY INC
	BUFFALO WILD WINGS INC
6061	DJM RETAIL INC
	LEONG LARRY DDS
	MICHAEL, MARINI
6261	BANK AMERICA NATIONAL ASSN
6271	CENTURY NAIL
	GOODWILL OF SILICON VALLEY



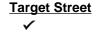
Source EDR Digital Archive

2014

LONE TREE WAY

-

6271	MASSAGE SEASON
	ZHU, Z
6281	GOLDEN DRAGON BUFFET
	J AND D INVESTMENT INC
	SINGRONG INC
	ZHENG INVESTMENT INC
6291	CARLS JR
6361	LES SCHWAB TIRE CTRS CAL INC
6367	HO DAVE MUI
	MANCINIS SLEEPWORLD INC
6471	WINGSTOP
6481	B P WEST COAST PRODUCTS
6560	IYOGURT
	NATIONS FOODSERVICE INC
6570	WALGREEN CO
6580	MELOS PIZZA & PASTA
	ORBIUM INC
6590	FIRST BANK
6600	BEST BUY CO INC
6651	CORNERSTONE FELLOWSHIP
6660	FIVE GUYS BURGERS & FRIES
	NORTHERN BURGERS THREE LLC
0070	QUICK CHECK
6670	SMOKE SHOP
6680	LISTEK ENTERPRISES INC
0700	STRAW HAT PIZZA RESTUARANT
6700	
6720	WINCO FOODS LLC OREILLY AUTOMOTIVE STORES INC
	HOLIDAY MASSAGE
6730 6830	POWER FOR LIVING MINISTRIES
6836	FIRESTONE COMPLETE AUTO CARE
6900	ACORN SELF STORAGE LLC
0900	WATERS, JACKIE
6935	LITTLE CEASARS PIZZA LONE TREE
0900	TRI CITY AUTO PLAZA INC
	VIZ CLEANERS
6945	BRENTWOOD AUTO SPA
7021	VALLEY OAK NURSERY INC
7161	BARRAGAN CANDE LARIO
7357	HINOJOS, JERRY M
7451	SPINELLI, MARY J
7510	FRIZZELL, DAVID B
7540	ONTIVEROS, JOHN
7570	PACIFIC COAST BACKHOE
7590	OCCUPANT UNKNOWN,
7600	MACHADO, FRED M
7650	ZUNIGA, MYRA F
7701	BRODERICK, TIMOTHY S
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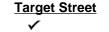


Source EDR Digital Archive

LONE TREE WAY 2014

-

7721	VELEZ, JOSE S
7731	ARELLANO, MARTIN
7765	OCCUPANT UNKNOWN,
7774	OCCUPANT UNKNOWN,
7801	STANCHINA, JUSTIN M
7840	DANNENBERG, HENRY J
7901	TOROS AUTO BODY SHOP
7920	MCGOVERAN, MARK E
7950	GUINN, SHAWN
7960	OCCUPANT UNKNOWN,
8011	OCCUPANT UNKNOWN,
	TYRRELLICUS USA
8020	OCCUPANT UNKNOWN,
8091	JONES, RUBY L
8131	HALFORD, STANLEY T
8145	MACHA, NICANOR
8153	CARDENAS, MARCELA
	GARCIA, MÁRIA
	GROSSE, LELAND J
	LOPEZ, ABRAHAM
	MARTINEZ, MARIO G
8193	TOMPKINS, VAL H
8215	BERNAL, ARMANDO B
8221	OCCUPANT UNKNOWN,
8261	OCCUPANT UNKNOWN,
8271	CRIST, ROYD
8281	OCCUPANT UNKNOWN,
8291	CHIRAYUNON, KRISTA J
	TROST TODD BBCAT DUMP TRCK SVC
8310	TORRES, EZEQUIEL J
8312	LANGE, CHEYENNE
8318	BECK, ROBIN R
8320	JENNIFER F BIRGE
	VILLASENOR, RODOLFO
8325	VILLICANA, PAUL J
8330	OROZCO, LUIS A
8331	MENDOZA, DANIEL
8335	MARTINEZ, MANUEL L
8340	BLOODWORTH, ALICE M
8350	WHITTERN, ROBERT W
8351	VILLEGAS, LUIS
8360	ORTIZ, AARON
8361	MONTES, ROBERTO
8370	DEPAZ, MAURICIO
	OPORTO TRUCKING INC
8371	OCCUPANT UNKNOWN,
8379	MCGRATH, THOMAS P
8383	LONE TREE DRIVE IN
8400	OCCUPANT UNKNOWN,
8401	CIRCLE E FOOD MART



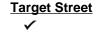
Source EDR Digital Archive

(Cont'd)

LONE TREE WAY 2014

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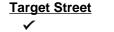
8424	DRISKILL, MIKE W
	JOLENE DRISKILL
8438	KELLEY, TIMOTHY M
8452	AGUILERA, ENRIQUE
	REYES E CONST INC
8466	STERZL, ERIC F
8480	RIVERA, OZZIE
8494	FDRW INC
	LEBEC INC
	OCCUPANT UNKNOWN,
8508	HARTZELL, PEARLETTA
8522	GARLEY, CAROLYN
8524	RAY, JOHN A



-

LONE TREE WAY 2010

5401	LONE TREE THAI CUISINE
	POONSUP INCORPORATED
5411	5 STAR WIRELESS
	CRAZY WIRELESS
	KINDERS CUSTOM MEATS INC
	TAVO INCORPORATED
	TAVOS PIZZERIA RESTAURANT
5421	BARBEQUES GALORE
	CITIFINANCIAL CREDIT COMPANY
	PLANET BEACH
5451	TRADER JOES COMPANY
5471	TWEEN BRANDS INC
5481	PETCO ANIMAL SUPS STORES INC
5501	MICHAELS STORES INC
5511	BRENTWOOD
	KOHLS CORPORATION
5521	
5541	3 DAY BLINDS CORPORATION
	EAST BAY INVESTMENT AND LN INC
	EVANS, ERIC
	FORECLOSURE FINDER TOURS LLC INTERO REAL ESTATE SERVIC
	JOHN-DOUGLAS GROUP INC
	MAVIN GROUP
	NATIONWIDE RE INVESTMENTS
5551	AMERICAS TIRE CO
5551	SOUTHERN CALIFDISCTTIRE COINC
5561	AARON BROTHERS INC
5571	SLEEP TRAIN INC
5591	CHEVRON CORPORATION
5601	AGUILAR 5 INC
	AT T CALIFORNIA
	G ANTHONY JEWELERS
	LIME WIRELESS LLC
	ORALE ORALE MEXICAN RESTAURANT
5611	ANGEL NAILS
	BIG REDS RESTAURANT INC
	CHOP STICK RESTAURANT
6021	EAST BAY EQUIES
6031	AISAN INTL COMMODITIES
	DEVI OIL INC
6041	CITIBANK NA
	OCCUPANT UNKNOWN,
	SCRUB MED MEDICAL SUPPLY
6048	BOBI VISION LLC
6051	CARVERY AT HARRYS HOFBRAU
6061	DJM RETAIL INC
	MICHAEL, MARINI
	PARK WAY CONSTRUCTION & A
6271	CENTURY NAIL



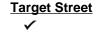
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2010

LONE TREE WAY

-

6271	EMS NAILS & SPA
	GOODWILL INDUSTRIES
6281	GOLDEN DRAGON BUFFET
	ZHENG INVESTMENT INC
6291	CARLS JR
6361	LES SCHWAB TIRE CTRS CAL INC
6367	MANCINIS SLEEPWORLD
6471	CELLCO PARTNERSHIP
	WINGSTOP
6481	B P WEST COAST PRODUCTS
6560	IYOGURT
	NATIONS FOODSERVICE INC
6570	WALGREEN CO
6580	MELOS PIZZA & PASTA
	ORBIUM INC
6590	FIRST BANK & TRUST COMPANY
6651	LIBERTY UNION SCHOOL DISTRICT
6660	CHARLEYS GRILL SUBS
	DJEIU, D
0070	
6670	RED RHINO ULTRA SPT BAR GRILL
6680	LISTEK ENTERPRISES INC
0700	STRAW HAT PIZZA RESTUARANT
6700	
6700	WINCO FOODS LLC OREILLY AUTOMOTIVE INC
6720 6730	HORIZON GOLF
6836	FIRESTONE COMPLETE AUTO CARE
6900	ACORN 2 SELF STORAGE LLC
0300	WATERS, JACKIE
6935	LITTLE CEASARS PIZZA LONE TREE
0000	TRI CITY AUTO PLAZA INC
	VIZ CLEANERS
6945	BRENTWOOD AUTO SPA
	FAMERS INSURANCE
	OSMIS FLOWERS AND GIFT
7021	VALLEY OAK NURSERY INC
7161	BARRAGAN CANDE LARIO
7357	HINOJOS, ROSEMARY G
7451	SPINELLI, GUST
7510	FRIZZELL, DAVID B
7540	ONTIVEROS, JOHN
7560	TURCOTTE, DANIEL A
7570	PACIFIC COAST BACKHOE
	TURCOTTE DANIEL
7590	NICOLETTI, CATERINA
7600	OCCUPANT UNKNOWN,
7650	OCCUPANT UNKNOWN,
7701	BRODERICK, TIMOTHY S



Source EDR Digital Archive

2010

LONE TREE WAY

-

7721	CLEOFAS, VELEZ J
7731	ARELLANO, MARTIN
7765	LAST, JEAN D
7772	HERNANDES CARLOS
7774	ACOSTA, EULOGIO
7786	ROBINSON, SUSANNE
7801	OCCUPANT UNKNOWN,
7840	DANNENBERG, HENRY J
7920	MCGOVERAN, MARK E
7950	HERRON, RONALD A
7951	PITTSBURG HOSE AND RUBBER
7960	OCCUPANT UNKNOWN,
8011	GARCIA, SYD E
8091	JONES, CHARLIE R
8131	HALFORD, STANLEY T
8145	MACHA, JHONNY
8153	HERAZ, HUMBERTO P
	LOPEZ, ABRAHAM
8193	TOMPKINS, VAL H
8211	OCCUPANT UNKNOWN,
8215	FIERROS, ELISABETH
8221	CABALLERO, JANET
8251	R R PROPERTIES
	RUDYS CUSTOM CONCRETE & STONE
8261	OCCUPANT UNKNOWN,
8271	TARIN, GILBERT F
8281	OCCUPANT UNKNOWN,
8291	CHIRAYUNON, KRISTA J
	TROST TODD BBCAT DUMP TRCK SVC
8310	OCCUPANT UNKNOWN,
8312	OCCUPANT UNKNOWN,
8318	BECK, KENNETH E
8320	JENNIFER F BIRGE
	VILLASENOR, RODOLFO
8321	ZBOYOVSKY, LISA
8325	ACCURATE LOCATING
	VILLICANA, PAUL J
8330	OROZCO, LUIS A
8331	MENDOZA, DANIEL
8335	MARTINEZ, AUDREY L
8340	BLOODWORTH, ALICE M
8350	WHITTERN, WAYNE D
8351	BARRERAS, JESSICA
8360	
8361	QUINTANILLA, HECTOR N
8370	
8371	OCCUPANT UNKNOWN,
8379	OCCUPANT UNKNOWN, LONE TREE DRIVE IN
8383 8400	OCCUPANT UNKNOWN,
0400	



Source EDR Digital Archive

(Cont'd)

2010

LONE TREE WAY

-

8401 CIRCLE E FOOD MART 8424 DRISKILL, MIKE W JOLENE DRISKILL 8452 HORN, DAUL STERZL, JESS J 8466 8480 RIVERA, OZZIE 8494 OCCUPANT UNKNOWN, 8508 HARTZELL, PEARL E 8522 CAPUDER, BRIAN 8524 PUTMAN, MELINDA A **RAY MELINDA**



✓

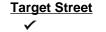
Cross Street

-

Source EDR Digital Archive

LONE TREE WAY 2005

754	PENA, NORMA
5481	PETCO 1311
5511	KOHLS DEPARTMENT STORES INC
5601	WSC FEDEX KINKOS CENTER
5631	HOME DEPOT USA INC
5641	SPORTMART INC
5779	STARBUCKS CORPORATION
6294	SLATTEN RANCH STORE
6390	
6481	AM/PM MINI MARKET
6531	VILLASENOR, JANET
6651	LIBERTY UNION SCHOOL DISTRICT
6670	MOSQUITO LOUNGE LLC
	REALTY WORLD PIGATI & RUSSL
6700	CERDA, LOURDES
	LEONARDIS PIZZA
	SOURCE REFRIGERATION HVAC
	WINCO FOODS LLC
6720	CSK AUTO INC
6730	DOLLARMANIA
0.00	GOLF USA OF BRENTWOOD
	HORIZON GOLF
	NEW LIFE CLEANERS
6820	KILCREASE, DENISE
6860	OCCUPANT UNKNOWN,
6861	BRENTWOOD REGIONAL CMNTY CHEST
6900	
7021	VALLEY OAK NURSERY INC
7101	OCCUPANT UNKNOWN,
7151	CAMACHO, DANNY T
7161	BARRAGAN CANDE LARIO
	OCCUPANT UNKNOWN,
7281	JUSTICE RECOVERY SERVICES
7357	SPINELLI TRUCKING
7450	VILLARREAL, ROBERT D
7451	SPINELLI, GUSTAVO
7460	JOHNS, WAYNE A
	SERNA, RUDOLPH M
7510	FRIZZELL, DAVID B
7560	TURCOTTE, DANIEL A
7570	KERN, MICHELE J
7590	NICOLETTI, CATERINA
7600	OCCUPANT UNKNOWN,
7650	SANCHEZ, THOMAS
7700	FUJII, TAKUMA
7701	BRODERICK, CECILIA J
7721	VELEZ, JOSE S
7731	ONOFRE, ROBERTO
7765	LAST, JEAN D
7772	HERNANDES CARLOS



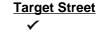
Source EDR Digital Archive

2005

LONE TREE WAY

-

7774	REGALADO, GUADALUPE
7801	MCGUIRE, RAYMOND R
7831	KEARN RANCH INC
	PREWETT, EDWARD A
7840	DANNENBERG, HENRY J
7920	MCGOVERAN, JERRY L
7950	BOOKS BY BRISTER
	BRISTER, ROYCE R
	THERAPEUTIC INTEVENTIONS
7951	LAMPORT, GEORGE J
7001	PITTSBURG HOSE AND RUBBER
7960	GUZMAN, CARLOS J
8011	GARCIA, SYD E
8091	JONES, CHARLIE R
8120	ORDONIO, TEOFILO
	OCCUPANT UNKNOWN,
8131	
8145	
8153	GROSSE, LELAND J
8173	TOMPKINS, VAL H
8193	MEZA YARD MAINTENANCE
	RETANO, CONSUELO
8211	SALGADO, YANIRA
8215	BERNAL, BALBINA
8221	CABALLERO, JANET
8251	R BROTHERS CONCRETE INC
	R R PROPERTIES
	R TS CULTURAL ARTS
	RUBEN SALINAS
8261	OCCUPANT UNKNOWN,
8271	TARIN, GILBERT F
8281	OCCUPANT UNKNOWN,
8291	TROST TODD BBCAT DUMP TRCK SVC
	TROST, TODD
8310	TORRES, EZEKIEL
8318	BECK, KENNETH E
8320	ALVAREZ, ALEJANDRO
	DELTA SANDS FLORIST
	HEITMEYER ROBERT S
8321	NEGRON, NICHOLAS
8325	VILLICANA, PAUL
8330	OCCUPANT UNKNOWN,
8331	MENDOZA, MARY H
8335	MARTINEZ, AUDREY L
8340	BLOODWORTH, LE L
8350	WHITTERN, WAYNE D
8351	MAGANA, FRANCISCO J
8360	DOMINGUEZ, J
8361	QUINTANILLA, ANTEMIA T
8370	BELL, SCOTT
8371	OCCUPANT UNKNOWN,
0071	



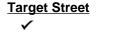
Source EDR Digital Archive

2005

LONE TREE WAY

-

8379	WILSON, GLORIA E
8383	LONE TREE DRIVE IN
0303	
8401	CIRCLE E FOOD MART
8424	DRISKILL, MIKE W
8438	KELLEY, TIMOTHY M
8452	SALMON, JAMES W
8466	STERZL, OWEN
8494	VILLEGAS, DAVID R
8508	HARTZELL, PEARL E
8522	PUTMAN, MYRON W
8524	OCCUPANT UNKNOWN,
	RAY MELINDA

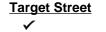


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Source EDR Digital Archive

LONE TREE WAY 2000

6294	BARNES BOBBY
	ELLINGSON, MELODY M
	SLATTEN RANCH STORE
6361	NOBRIGAS UPHOLSTERY
	OCCUPANT UNKNOWN,
6401	ROENICKE, ROBERT W
6531	VILLASENOR, JANET
6561	DEMARTINI, RUSSELL A
6651	LIBERTY UNION SCHOOL DISTRICT
6685	LEE, ARNOLD
6691	LEE, ARNOLD
6700	OCCUPANT UNKNOWN,
6820	OCCUPANT UNKNOWN,
6860	URMENETA, DANA L
6861	PIERCE, ROSE M
6890	LOPEZ, JOHN
6901	LIMA, JOE
6910	LOPEZ, TONY
6921	SMITH, AMELIA L
7020	GLASS GUYS
	OCCUPANT UNKNOWN,
7021	BACKYARD FACTORY
	VALLEY OAK NURSERY INC
7101	PEREZ, MATTIE L
7131	OCCUPANT UNKNOWN,
7151	OCCUPANT UNKNOWN,
7170	SHIROYAMA, Y J
7281	JIM COOPERS PROPELLER REP
	OCCUPANT UNKNOWN,
7357	••••••
7450	OCCUPANT UNKNOWN,
7451	SPINELLI, GUSTAVO
7560	REGAN, TIMOTHY
7570	OCCUPANT UNKNOWN,
7500	
7590	NICOLETTI, C
7600	OCCUPANT UNKNOWN,
7650	SANCHEZ, MICHAEL
7701	BRODERICK, CECELIA J
7721	OCCUPANT UNKNOWN,
7731	OCCUPANT UNKNOWN,
7765	
	LAST, CHARLES B
7770	VONFORSTMEYER, M R
7770	DELTA SQUARE DANCERS OF E
7770	OCCUPANT UNKNOWN,
7772 7774	
7774	FLORES, REBECA OCCUPANT UNKNOWN,
7801 7831	OCCUPANT UNKNOWN, OCCUPANT UNKNOWN,
1001	



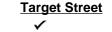
Source EDR Digital Archive

2000

LONE TREE WAY

-

7840	DANNENBERG, HENRY J
7901	ANGELES, MARTIN
7920	NICHOLAS, CRAIG A
7950	BRISTER, ROYCE
7951	LAMPORT, GEORGE J
	PITTSBURG HOSE AND RUBBER
7960	OCCUPANT UNKNOWN,
8001	SHAVER, JERRY
8011	GARCIA, SYDNEY E
8020	OCCUPANT UNKNOWN,
8031	OCCUPANT UNKNOWN,
8091	JONES, CHARLIE R
8120	BERNAL, ARMANDO
	BROWNLEE, ALEX
	DE FREMERY J FARM
	DEFREMERY, JAMES
	DORNSELD, JOANNE
8131	HALFORD, NAOMA A
8145	OCCUPANT UNKNOWN,
8193	HERNANDEZ, ARACELI
	MEZA, MANUEL
8215	BERNAL, ARMANDO
8251	HERNANDEZAVALOS, FELIPE
	R BROTHERS CONCRETE INC
8261	OCCUPANT UNKNOWN,
8271	OCCUPANT UNKNOWN,
8291	TROST TODD BBCAT DUMP TRCK SVC
	TROST, TODD
8310	KLIENE, ALBERT A
8318	OCCUPANT UNKNOWN,
8320	DELTA SANDS FLORIST
	HEITMEYER, ROBERT S
	SDC SITE DEVELOPMENT CONSLTS
8321	MCCULLOUGH, ANNETTE
8325	LUNA, ANTONIO
8330	OROZCO, LOUIS
8340	BLOODWORTH, LE E
8350	OCCUPANT UNKNOWN,
8351	MAGANA, F J
8361	OCCUPANT UNKNOWN,
8370	BEST, BREANNA M
8371	OCCUPANT UNKNOWN,
8383	LONE TREE DRIVE IN
8424	DRISKILL, MICHAEL
8438	KELLEY, TIMOTHY M
8452	OCCUPANT UNKNOWN,
8466	OCCUPANT UNKNOWN,
8480	OCCUPANT UNKNOWN,
8494	OCCUPANT UNKNOWN,
8508	OCCUPANT UNKNOWN,



Source EDR Digital Archive

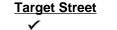
2000

LONE TREE WAY

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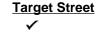
8522 CAPUDER, A M



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LONE TREE WAY 1995

- 763 R BROS CONCRETE
- 6294 SLATTEN RANCH STORE
- 6361 NOBRIGAS UPHOLSTERY
- 6651 LIBERTY UNION SCHOOL DISTRICT
- 7021 VALLEY OAK NURSERY INC
- 7570 TURCOTTE DANIEL
- 7772 ASAHI NURSERY
- 7951 PITTSBURG HOSE AND RUBBER
- 8251 R BROTHERS CONCRETE
- 8291 TODD TROST BBCAT DUMP TRCK SVC
- 8320 SDC SITE DEVELOPMENT CONSLTS



-

Source EDR Digital Archive

LONE TREE WAY 1992

 753 HURTADO, O R 754 GROSSE, LELAND 763 R BROS CONCRETE 787 MELGOZA, B 6221 MARCHANT, WILLIAM T 6294 SLATTEN RANCH STORE
 763 R BROS CONCRETE 787 MELGOZA, B 6221 MARCHANT, WILLIAM T 6294 SLATTEN RANCH STORE
787 MELGOZA, B6221 MARCHANT, WILLIAM T6294 SLATTEN RANCH STORE
6221 MARCHANT, WILLIAM T 6294 SLATTEN RANCH STORE
6294 SLATTEN RANCH STORE
6531 SMITH, ROBERT D
6561 DEMARTINI, RUSSELL A
6651 LIBERTY UNION HIGH SCHOOL DST
6691 LEE, ARNOLD
6820 PIERCE, M F
6910 LOPEZ, TONY
7021 VALLEY OAK NURSERY INC
7570 TURCOTTE TRUCKING
7731 KELLY, ALLAN F
7772 ASAHI NURSERY
7831 PREWETT, EDWARD A
7840 DANNENBERG, HENRY J
8120 DEFREMERY, JAMES
8251 R BROTHERS CONCRETE
8310 KLIENE, ALBERT A
8340 BLOODWORTH, L E
8350 WHITTERN, WAYNE D
8424 DRISKILL, MICHAEL
8452 CHAMPMAN, DEWEY

Lone Tree Way LONE TREE WAY BRENTWOOD, CA 94513

Inquiry Number: 5631677.3 April 24, 2019

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

04/24/19 Site Name: Client Name: Lone Tree Way TRC TRC LONE TREE WAY 505 Sansome Street Suite 1600 Francisco, CA 94111 BRENTWOOD, CA 94513 San Francisco, CA 94111 Contact: Glenn Young EDR Inquiry # 5631677.3 Contact: Glenn Young Contact: Glenn Young

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by TRC 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.

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Certified Sanborn Results:

Certification # C355-4D45-AE3B

PO # 338571

Project Lone Tree Way, Brentwood

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 #: C355-4D45-AE3B

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
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University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX D: PHOTOGRAPH LOG

PHASE I ENVIRONMENTAL ASSESSMENT Lone Tree Way Brentwood, CA 94513



Photo #1: Valley Oak Nursery located west of Site.



Photo #2: View of Site looking west from northeastern corner of the Site.



Photo #3: View of overhead pwer lines looking west alone Lone Tree Way.



Photo #4: View of Site looking east from northwestern corner of the Site.



Photo #5: View of adjacent property to the west.

Photo #6: View of dilapidated fence on adjacent property to the west.



PHASE I ENVIRONMENTAL ASSESSMENT Lone Tree Way Brentwood, CA 94513



Photo #7: View of southern property line looking easterd along Double K Road.



Photo #9: View of Site looking north from southern property line.



Photo #10: View of Skipolini Property immediately east of the Site.



Photo #10: View of undeveloped land south of the Site with possible pump house.



Photo #11: Entrance to residential neighborhood north of Site.

Photo #12: View of Site looking southward along eastern property line.



APPENDIX E: OTHER REFERENCE INFORMATION



CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION



2120 DIAMOND BLVD. SUITE 200. CONCORD. CA 94520-5704 (925) 692-2500 FAX (925) 692-2502 www.cchealth.org/eh/

Soil Boring Permit

Permit Number:	0025857		
Date Received:	April 25, 2019		

PE Number: 4301

Date Issued: 01-May-2019

WP Number: WP0025857

Issued By: ROBERT GRIBBEN

Date Expires: 02-Nov-2019

Intended Use: SOIL BORING

of Borings or Well ID: 2 BORINGS

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

Project Site Information

Site Address:	LONE TREE WY., BRENTWOOD
APN:	018 080 025
Subdivisioin #	

Lot/Parcel #: Minor Subdivision #:

Driller/Consultant Information

Driller:EXPLORATION GEOSERVICES INCPhone #:408-280-6822Consultant:TRC SOLUTIONS, INC.Phone #:650-444-0629

Contact Person: JOHN COLLINS E-Mail or Fax#: john@explorationgeo.com Contact Person: ALBERT CORTEZ E-Mail or Fax#: acortez@trcsolutions.com

Legal Owner Information

Property Owner	CYRUS LAND INVESTMENTS, LLC	Responsible Pa	arty: SAME AS OWNER
Owner Address:	4021 PORT CHICAGO HWY	Address:	
City/State/Zip:	CONCORD, CA 94520	City/State/Zip:	
Phone #:	925-671-7711	Phone #:	Not Specified

Prior to any drilling construction or destruction of a well, requests for inspection appointment must be received 48 hours in advance (excluding weekends, holidays, and Mandatory County Furlough Days) by faxing your written request to (925) 692-2502 or e-mail to <u>ehlu@.cchealth.org</u>. Voice mail messages are not acceptable.

Well drillers must possess a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

Soil Boring Permit Conditions:

1. Soil Boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

2. 3.



CONTRA COSTA COUNTY

ENVIRONMENTAL HEALTH DIVISION 2120 DIAMOND BOULEVARD, SUITE 200 CONCORD CA 94520 Phone (925) 692-2500 Fax (925) 692-2504 www.cchealth.org/eh

SOIL BORING PERMIT APPLICATION

ONE APPLICATION PER PARCEL & TYPE OF WORK

 Soil Boring (01)

 Soil Boring 11+ (03)

 CPT (53)

□ CPT 11+ (55) □ Inclinometer (52) □ Soil Vapor Probe (02)

□ Soil Vapor Probe 11+ (04) □ Piezometer w/o casing (66) □ Piezometer w/o casing 11+ (76)



PLEASE PRINT CLEARLY. * REQUIRED FIELD MUST BE COMPLETED. INCOMPLETE APPLICATIONS WILL BE REJECTED. THE APPLICATION IS NOT THE PERMIT. ALLOW 5-7 WORKING DAYS FOR PROCESSING.

-	*Legal Property Owner/Responsible Party: Cyrus	s Land Inves	tments,	LLC / Se	eeno Con	structio	on Co, Inc.
TION	*Address: 4021 Port Chicago Highway, Suite H				F	hone Num	^{ber:} 925-766-5769
ORMAT	*City: Concord	State:	State: California		2	Zip code: 94520	
LEGAL OWNER INFORMATION	*Legal Property Owner (if different from Responsible P Same as above	Party): Addres	ss/City/State/	Zip Code:			
TOWN	* Site Address (if different from owner address): Lone Tree Way, Brentwood, California						
LEGA	*Assessor's Parcel Number: 018-080-025	Subdiv	Subdivision/Minor Subdivision #:		L	ot/Parcel I	Number:
	*On-site Contact Name: Alberto Cortez	*On-sit	*On-site Contact Cell Number: 650-444-0629				
Just -		LICENSED DRILLE	R INFORM	ATION			
	ss Name: Exploration GeoServices,	Inc.	*Contact N	^{ame:} John	Collins		*Business Phone: 408-280-6822
*Mailing Address: 1535 Industrial Ave, San Jose, CA 95112 *C-57 License Number: 484288 john@explorationgeo.com							
0-91		ONSULTANT/ENGIN	EER INFOR	RMATION			
*Business Name: TRC Solutions, Inc. *Contact Name: Alberto Cortez *Business Phone: 650-444-0629							
*Mailing 1920	Address: Old Middlefield Way, Mountain Vi			acc	ortez@trcs	solutio	ns.com
		RUCTION/DESTRU			5*		
T (0)		Boring Depth: (b.g. 30 feet	s):	Method of Drilling/Des	struction/Other		Proposed Drill Date(s):
	Material for annular seal/destruction (specify mix nonite Concrete II Cement **(Bentonite chi		al only)**	Hollow-	Stem Aug	ger	May 10, 2019
PLC	DT MAP A HEALTH & SAFETY PLAN	CROACHMENT PI	ERMIT (If i	n right of wa	ay) 🗖 RIGH	OF AC	CESS AGREEMENT

PERFORMANCE BOND REQUIREMENT: Contra Costa County Ordinance, Title 4 Health and Safety, Article 414-4.10; Section 414-4.1023(a) Prior to the issuance of a permit, the applicant shall post with the health officer a cash deposit or bond guaranteeing compliance with the terms of this chapter and the applicable permit, such bond to be in an amount deemed necessary by the health officer to remedy improper work but not in excess of five thousand dollars.

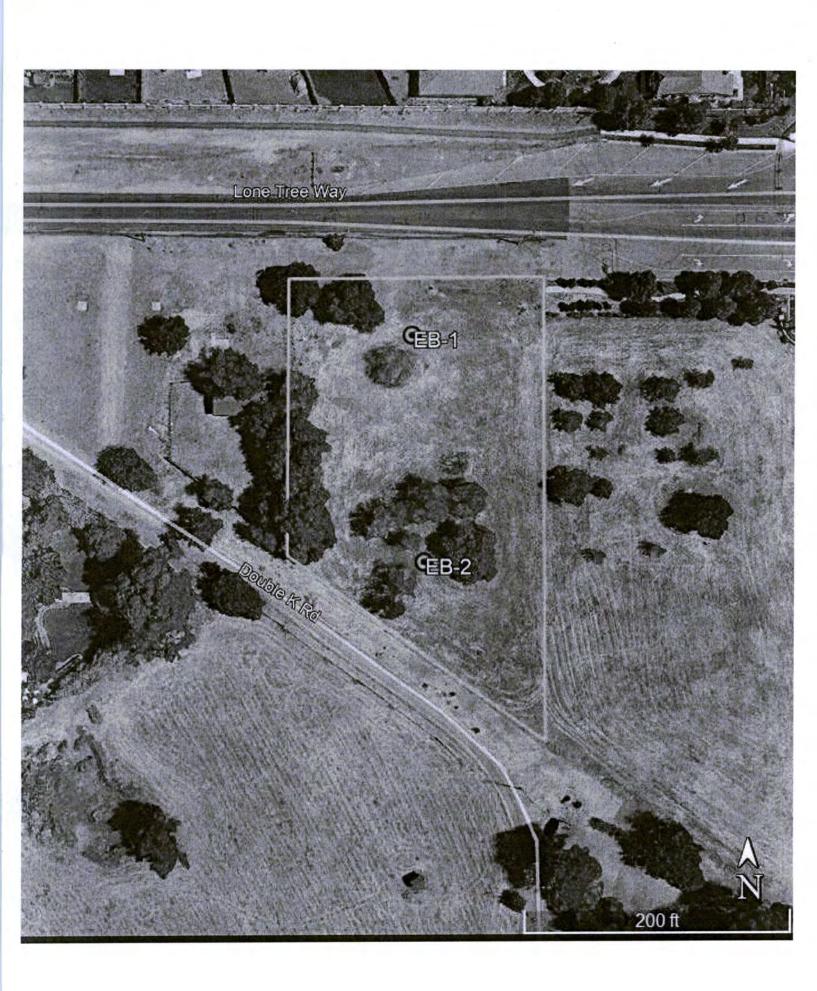
I hereby certify that the above information and submitted plans are true and correct and that the proposed work will comply with all permit conditions and applicable laws and regulations. I agree to obtain all required inspections, maintain a copy of the approved permit and plans at the job site until final approval, and obtain written authorization prior to deviating from the approved permit or plans.

Signature of C-57 Licensed Driller

04/24/19

Date

	averal second	FOR OFFI	CE USE	ONLY		
FA#: 43031	Permit #: 35857	P/E: 43 C1	WP #:	DATE RECEIVED: 4:25-19	REHS	SUPERVISOR:
AMOUNT DUE: \$ 560.50 V	AMOUNT PAID: \$ 560.50	CHECK #:			VISA XR	120511
INITIAL: DATE APPROVED:	5-1-19 CONDI	IONS				
AR 46015						



APPENDIX F: LABORATORY ANALYTICAL REPORTS



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1906C96

Report Created for: TRC

2300 Clayton Road, Suite 610 Concord, CA 94520

Project Contact: Project P.O.: Project:

Glenn Young 338571.1 Lone Tree Way

Project Received: (

06/26/2019

Analytical Report reviewed & approved for release on 07/05/2019 by:

/a Coo

Yen Cao Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com CA ELAP 1644 ♦ NELAP 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client:	TRC
Project:	Lone Tree Way
WorkOrder:	1906C96

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client:TRCProject:Lone Tree WayWorkOrder:1906C96

Analytical Qualifiers

Р

Agreement between quantitative confirmation results exceed method recommended limits



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/27/19

 Project:
 Lone Tree Way

 WorkOrder:
 1906C96

 Extraction Method:
 SW3550B/3640Am/3630Cm

 Analytical Method:
 SW8081A

 Unit:
 mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Colle	cted	Instrument	Batch ID
S1-0	1906C96-001A	Soil	06/26/2019 11:43		GC23 06271942.d	180506
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	DF		Date Analyzed
Aldrin	ND		0.00010	1		06/28/2019 03:15
a-BHC	ND		0.00010	1		06/28/2019 03:15
b-BHC	ND		0.00030	1		06/28/2019 03:15
d-BHC	ND		0.00020	1		06/28/2019 03:15
g-BHC	ND		0.00010	1		06/28/2019 03:15
Chlordane (Technical)	ND		0.0025	1		06/28/2019 03:15
a-Chlordane	ND		0.00010	1		06/28/2019 03:15
g-Chlordane	0.00022	Р	0.00010	1		06/28/2019 03:15
p,p-DDD	0.00033		0.00010	1		06/28/2019 03:15
p,p-DDE	0.061		0.0010	10		06/28/2019 21:53
p,p-DDT	0.0078		0.00010	1		06/28/2019 03:15
Dieldrin	0.00037		0.00010	1		06/28/2019 03:15
Endosulfan I	0.00012		0.00010	1		06/28/2019 03:15
Endosulfan II	ND		0.00010	1		06/28/2019 03:15
Endosulfan sulfate	ND		0.00010	1		06/28/2019 03:15
Endrin	ND		0.00010	1		06/28/2019 03:15
Endrin aldehyde	ND		0.00010	1		06/28/2019 03:15
Endrin ketone	ND		0.00010	1		06/28/2019 03:15
Heptachlor	ND		0.00010	1		06/28/2019 03:15
Heptachlor epoxide	ND		0.00010	1		06/28/2019 03:15
Hexachlorobenzene	ND		0.0010	1		06/28/2019 03:15
Hexachlorocyclopentadiene	ND		0.0020	1		06/28/2019 03:15
Methoxychlor	ND		0.00020	1		06/28/2019 03:15
Toxaphene	ND		0.0050	1		06/28/2019 03:15
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	81		20-145			06/28/2019 03:15
Analyst(s): LT						



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/27/19

 Project:
 Lone Tree Way

 WorkOrder:
 1906C96

 Extraction Method:
 SW3550B/3640Am/3630Cm

 Analytical Method:
 SW8081A

 Unit:
 mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Colle	cted	Instrument	Batch ID
S2-0	1906C96-003A	Soil	06/26/2019 11:54		GC23 06271943.d	180506
Analytes	Result	<u>Qualifiers</u>	<u>RL</u>	<u>DF</u>		Date Analyzed
Aldrin	ND		0.00010	1		06/28/2019 03:30
a-BHC	ND		0.00010	1		06/28/2019 03:30
b-BHC	ND		0.00030	1		06/28/2019 03:30
d-BHC	ND		0.00020	1		06/28/2019 03:30
g-BHC	ND		0.00010	1		06/28/2019 03:30
Chlordane (Technical)	ND		0.0025	1		06/28/2019 03:30
a-Chlordane	ND		0.00010	1		06/28/2019 03:30
g-Chlordane	ND		0.00010	1		06/28/2019 03:30
p,p-DDD	ND		0.00010	1		06/28/2019 03:30
p,p-DDE	0.042		0.0010	10		06/28/2019 22:08
p,p-DDT	0.0056		0.00010	1		06/28/2019 03:30
Dieldrin	0.00025		0.00010	1		06/28/2019 03:30
Endosulfan I	0.00015	Р	0.00010	1		06/28/2019 03:30
Endosulfan II	0.00017		0.00010	1		06/28/2019 03:30
Endosulfan sulfate	ND		0.00010	1		06/28/2019 03:30
Endrin	ND		0.00010	1		06/28/2019 03:30
Endrin aldehyde	ND		0.00010	1		06/28/2019 03:30
Endrin ketone	ND		0.00010	1		06/28/2019 03:30
Heptachlor	ND		0.00010	1		06/28/2019 03:30
Heptachlor epoxide	ND		0.00010	1		06/28/2019 03:30
Hexachlorobenzene	ND		0.0010	1		06/28/2019 03:30
Hexachlorocyclopentadiene	ND		0.0020	1		06/28/2019 03:30
Methoxychlor	ND		0.00020	1		06/28/2019 03:30
Toxaphene	ND		0.0050	1		06/28/2019 03:30
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	85		20-145			06/28/2019 03:30



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/27/19

 Project:
 Lone Tree Way

WorkOrder: 1906C96 Extraction Method: SW3550B/3640Am/3630Cm Analytical Method: SW8081A Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Colle	cted	Instrument	Batch ID
S3-0	1906C96-005A	Soil	06/26/2019 12:04		GC23 06271944.d	180506
<u>Analytes</u>	Result	<u>Qualifiers</u>	<u>RL</u>	DF		Date Analyzed
Aldrin	ND		0.00010	1		06/28/2019 03:46
a-BHC	ND		0.00010	1		06/28/2019 03:46
b-BHC	ND		0.00030	1		06/28/2019 03:46
d-BHC	ND		0.00020	1		06/28/2019 03:46
g-BHC	ND		0.00010	1		06/28/2019 03:46
Chlordane (Technical)	ND		0.0025	1		06/28/2019 03:46
a-Chlordane	ND		0.00010	1		06/28/2019 03:46
g-Chlordane	0.00041	Р	0.00010	1		06/28/2019 03:46
p,p-DDD	ND		0.00010	1		06/28/2019 03:46
p,p-DDE	0.094		0.0010	10		06/28/2019 22:24
p,p-DDT	0.010		0.00010	1		06/28/2019 03:46
Dieldrin	0.00023		0.00010	1		06/28/2019 03:46
Endosulfan I	0.00022		0.00010	1		06/28/2019 03:46
Endosulfan II	ND		0.00010	1		06/28/2019 03:46
Endosulfan sulfate	ND		0.00010	1		06/28/2019 03:46
Endrin	0.00021		0.00010	1		06/28/2019 03:46
Endrin aldehyde	ND		0.00010	1		06/28/2019 03:46
Endrin ketone	ND		0.00010	1		06/28/2019 03:46
Heptachlor	ND		0.00010	1		06/28/2019 03:46
Heptachlor epoxide	ND		0.00010	1		06/28/2019 03:46
Hexachlorobenzene	ND		0.0010	1		06/28/2019 03:46
Hexachlorocyclopentadiene	ND		0.0020	1		06/28/2019 03:46
Methoxychlor	ND		0.00020	1		06/28/2019 03:46
Toxaphene	ND		0.0050	1		06/28/2019 03:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	91		20-145			06/28/2019 03:46
<u>Analyst(s):</u> LT						



 Client:
 TRC

 Date Received:
 6/26/19.13:03

 Date Prepared:
 6/26/19-7/3/19

 Project:
 Lone Tree Way

WorkOrder:	1906C96
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Arsen	ic			
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S1-0	1906C96-001A	Soil	06/26/2019	11:43	ICP-MS3 073SMPL.D	180389
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Arsenic	7.2		0.50	1		06/27/2019 17:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	98		70-130			06/27/2019 17:04
<u>Analyst(s):</u> MIG						
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S2-0	1906C96-003A	Soil	06/26/2019	11:54	ICP-MS2 058SMPL.D	180926
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Arsenic	7.1		0.50	1		07/05/2019 16:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	108		70-130			07/05/2019 16:47
<u>Analyst(s):</u> ND						
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S3-0	1906C96-005A	Soil	06/26/2019	12:04	ICP-MS3 074SMPL.D	180389
Analytes	<u>Result</u>		RL	<u>DF</u>		Date Analyzed
Arsenic	9.1		0.50	1		06/27/2019 17:10
<u>Surrogates</u>	<u>REC (%)</u>		Limits			
Terbium	96		70-130			06/27/2019 17:10
<u>Analyst(s):</u> MIG						



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/26/19

 Project:
 Lone Tree Way

WorkOrder:	1906C96
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead	1		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S1-2	1906C96-002A	Soil	06/26/2019 11:51	ICP-MS2 236SMPL.D	180389
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	14		0.50 1		06/27/2019 15:36
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
Terbium	113		70-130		06/27/2019 15:36
<u>Analyst(s):</u> MIG					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S2-2	1906C96-004A	Soil	06/26/2019 12:00	ICP-MS2 237SMPL.D	180389
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	8.7		0.50 1		06/27/2019 15:42
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Terbium	106		70-130		06/27/2019 15:42
<u>Analyst(s):</u> MIG					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S3-2	1906C96-006A	Soil	06/26/2019 12:12	ICP-MS3 080SMPL.D	180389
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	8.9		0.50 1		06/27/2019 17:46
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	99		70-130		06/27/2019 17:46
<u>Analyst(s):</u> ND					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S4-0	1906C96-007A	Soil	06/26/2019 09:52	ICP-MS3 081SMPL.D	180389
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	39		0.50 1		06/27/2019 17:52
Surrogates	<u>REC (%)</u>		Limits		
Terbium	101		70-130		06/27/2019 17:52
<u>Analyst(s):</u> ND					



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/26/19

 Project:
 Lone Tree Way

WorkOrder:	1906C96
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead	l		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S5-0	1906C96-009A	Soil	06/26/2019 10:01	ICP-MS3 082SMPL.D	180389
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	20		0.50 1		06/27/2019 17:58
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	98		70-130		06/27/2019 17:58
<u>Analyst(s):</u> ND					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S6-0	1906C96-011A	Soil	06/26/2019 11:12	ICP-MS2 190SMPL.D	180407
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	18		0.50 1		06/27/2019 10:53
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		06/27/2019 10:53
<u>Analyst(s):</u> ND					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S7-0	1906C96-013A	Soil	06/26/2019 11:01	ICP-MS3 083SMPL.D	180407
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	18		0.50 1		06/27/2019 18:04
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	98		70-130		06/27/2019 18:04
<u>Analyst(s):</u> ND					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S8-0	1906C96-015A	Soil	06/26/2019 10:52	ICP-MS2 238SMPL.D	180407
Analytes	Result		<u>RL</u> DF		Date Analyzed
Lead	13		0.50 1		06/27/2019 15:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	106		70-130		06/27/2019 15:48
<u>Analyst(s):</u> MIG					



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 6/26/19

 Project:
 Lone Tree Way

WorkOrder:	1906C96
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

Lead						
Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
S9-0	1906C96-017A	A Soil	06/26/2019	11:31	ICP-MS3 084SMPL.D	180407
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	24		0.50	1		06/27/2019 18:10
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Terbium	99		70-130			06/27/2019 18:10
<u>Analyst(s):</u> ND						

 Client:
 TRC

 Date Preparet:
 6/27/19 - 6/28/19

 Date Analyzet:
 6/27/19 - 6/28/19

 Instrument:
 GC23

 Matrix:
 Soil

 Project:
 Lone Tree Way

WorkOrder:	1906C96
BatchID:	180506
Extraction Method:	SW3550B/3640Am/3630Cm
Analytical Method:	SW8081A
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-180506

QC Summary Report for SW8081A/8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.000036	0.00010	-	-	-
a-BHC	ND	0.000025	0.00010	-	-	-
b-BHC	ND	0.00025	0.00030	-	-	-
d-BHC	ND	0.00013	0.00020	-	-	-
g-BHC	ND	0.000066	0.00010	-	-	-
Chlordane (Technical)	ND	0.00043	0.0025	-	-	-
a-Chlordane	ND	0.000095	0.00010	-	-	-
g-Chlordane	ND	0.000047	0.00010	-	-	-
p,p-DDD	ND	0.000043	0.00010	-	-	-
p,p-DDE	ND	0.000094	0.00010	-	-	-
p,p-DDT	ND	0.000092	0.00010	-	-	-
Dieldrin	ND	0.000061	0.00010	-	-	-
Endosulfan I	ND	0.000048	0.00010	-	-	-
Endosulfan II	ND	0.000076	0.00010	-	-	-
Endosulfan sulfate	ND	0.000078	0.00010	-	-	-
Endrin	ND	0.000035	0.00010	-	-	-
Endrin aldehyde	ND	0.000067	0.00010	-	-	-
Endrin ketone	ND	0.000084	0.00010	-	-	-
Heptachlor	ND	0.000040	0.00010	-	-	-
Heptachlor epoxide	ND	0.000054	0.00010	-	-	-
Hexachlorobenzene	ND	0.00011	0.0010	-	-	-
Hexachlorocyclopentadiene	ND	0.00034	0.0020	-	-	-
Methoxychlor	ND	0.00013	0.00020	-	-	-
Toxaphene	ND	0.0034	0.0050	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0050			0.0050	100	28-170

 Client:
 TRC

 Date Prepared:
 6/27/19 - 6/28/19

 Date Analyzed:
 6/27/19 - 6/28/19

 Instrument:
 GC23

 Matrix:
 Soil

 Project:
 Lone Tree Way

WorkOrder:	1906C96
BatchID:	180506
Extraction Method:	SW3550B/3640Am/3630Cm
Analytical Method:	SW8081A
Unit:	mg/kg
Sample ID:	MB/LCS/LCSD-180506

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0048	0.0050	0.0050	96	99	31-155	2.90	20
a-BHC	0.0048	0.0049	0.0050	97	99	32-160	2.01	20
b-BHC	0.0046	0.0046	0.0050	92	92	44-149	0	20
d-BHC	0.0053	0.0055	0.0050	107	110	37-157	3.38	20
g-BHC	0.0050	0.0052	0.0050	101	104	43-154	3.09	20
a-Chlordane	0.0042	0.0046	0.0050	84	92	39-150	9.03	20
g-Chlordane	0.0044	0.0048	0.0050	89	96	39-151	8.12	20
p,p-DDD	0.0034	0.0037	0.0050	69	73	30-158	6.94	20
p,p-DDE	0.0042	0.0045	0.0050	83	90	47-149	7.34	20
p,p-DDT	0.0044	0.0048	0.0050	87	96	56-166	10.2	20
Dieldrin	0.0043	0.0046	0.0050	86	93	50-163	7.18	20
Endosulfan I	0.0041	0.0044	0.0050	83	88	45-159	6.25	20
Endosulfan II	0.0037	0.0040	0.0050	73	79	41-155	8.06	20
Endosulfan sulfate	0.0042	0.0046	0.0050	84	91	45-156	7.89	20
Endrin	0.0046	0.0049	0.0050	91	98	54-154	7.59	20
Endrin aldehyde	0.0042	0.0046	0.0050	84	91	27-159	7.89	20
Endrin ketone	0.0042	0.0045	0.0050	85	90	40-147	6.47	20
Heptachlor	0.0055	0.0056	0.0050	109	112	52-165	2.47	20
Heptachlor epoxide	0.0042	0.0043	0.0050	83	85	46-145	2.46	20
Hexachlorobenzene	0.0049	0.0050	0.0050	98	100	22-156	2.41	20
Hexachlorocyclopentadiene	0.0051	0.0048	0.0050	102	96	43-173	6.28	20
Methoxychlor	0.0047	0.0050	0.0050	93	99	49-150	6.12	20
Surrogate Recovery								
Decachlorobiphenyl	0.0047	0.0051	0.0050	95	102	28-170	6.99	20



Client:	TRC
Date Prepared:	6/26/19
Date Analyzed:	6/27/19
Instrument:	ICP-MS3
Matrix:	Soil
Project:	Lone Tree Way

WorkOrder:	1906C96
BatchID:	180389
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS/LCSD-180389

QC Summary Report for Metals MB MDL RL SPK MB SS Analyte MB SS Result Val %REC Limits Arsenic ND 0.14 0.50 ---Surrogate Recovery 500 Terbium 500 100 70-130 Analyte LCS LCSD SPK LCS LCSD LCS/LCSD RPD RPD %REC %REC Limit Result Result Val Limits Arsenic 57 49 50 114 99 75-125 14.5 20 Surrogate Recovery 580 Terbium 500 500 117 101 70-130 14.8 20



Client:	TRC
Date Prepared:	7/3/19
Date Analyzed:	7/5/19
Instrument:	ICP-MS1
Matrix:	Soil
Project:	Lone Tree Way

WorkOrder:	1906C96
BatchID:	180926
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS/LCSD-180926

QC Summary Report for Metals MB MDL RL SPK MB SS Analyte MB SS Result Val %REC Limits Arsenic ND 0.14 0.50 ---Surrogate Recovery 570 Terbium 500 114 70-130 Analyte LCS LCSD SPK LCS LCSD LCS/LCSD RPD RPD %REC %REC Limit Result Result Val Limits 0 20 Arsenic 53 53 50 105 105 75-125 Surrogate Recovery 570 Terbium 570 500 115 115 70-130 0 20



Client:	TRC
Date Prepared:	6/26/19
Date Analyzed:	6/27/19
Instrument:	ICP-MS3
Matrix:	Soil
Project:	Lone Tree Way

WorkOrder:	1906C96
BatchID:	180389
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS/LCSD-180389

QC Summary Report for Metals MB MDL RL SPK MB SS Analyte MB SS Result Val %REC Limits Lead ND 0.094 0.50 ---Surrogate Recovery 500 Terbium 500 100 70-130 Analyte LCS LCSD SPK LCS LCSD LCS/LCSD RPD RPD %REC %REC Limit Result Result Val Limits Lead 57 49 50 113 98 75-125 14.9 20 Surrogate Recovery 580 Terbium 500 500 117 101 70-130 14.8 20



Client:	TRC
Date Prepared:	6/26/19
Date Analyzed:	6/27/19
Instrument:	ICP-MS2
Matrix:	Soil
Project:	Lone Tree Way

WorkOrder:	1906C96
BatchID:	180407
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS/LCSD-180407
	1906C96-011AMS/MSD

		QC Su	mmary R	eport for	Metals					
Analyte		MB Result		MDL	RL		SPK Val	MB SS %REC		MB SS Limits
Lead		ND		0.094	0.50		-	-		-
Surrogate Recovery										
Terbium		520					500	103		70-130
Analyte		LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead		51	52	50		102	105	75-125	3.04	20
Surrogate Recovery										
Terbium		510	520	500		102	105	70-130	2.86	20
Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %RE(MSD C %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1	68	71	50	17.81	101	107	75-125	4.15	20
Surrogate Recovery										
Terbium	1	500	520	500		100	104	70-130	3.31	20
Analyte		DLT Result			DLTRef Val				%D	%D Limit
Lead		18			17.81		_		1.07	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

McCamp		СН	AIN	I-OF-	CU	ST()DY	RE(COR	D		Page	1 of	1				
Pittsburg	, CA 94565-1701				WorkOrder: 1906C96					ClientC	ode: [ode: TRCC						
(925) 252	2-9262	□WaterTra	ıx ∏WriteOn	EDF	ΠE	Excel	E	QuIS		Email		HardCo	ру	Third	Party	J-fla	ag	
							n Summa			Dry-Weig					,		0	
Demost to:							ll to:	, y			jiit				- .	C		
Report to:		Enerally	0			ы			- 1- 1 -			ſ	keque	sted TA	1:	5 days;		
Glenn Young		Email: cc/3rd Party	Gyoung@trccom	ipanies.com			Account	is Paya	able									
TRC 2200 Clayton	Road, Suite 610	PO:	338571.1				TRC 21 Griffi	n Door	d North			,	Date 1	Receive	d٠	06/26/2	2019	
Concord, CA		Project:																
(925) 688-2479		Filipeol.	Lone Tree Way				Windson				onion o		Jate I	Logged		06/26/2	2019	
(923) 000-2479	TAX. (923) 000-0300						apinvoid	eappro	oval@li	ccompa	anies.c	om						
					[Rec	ulostod	Tosts (See lege	nd be	low)				
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	1		i				10	11	12	
Lab ID 1906C96-001	Client ID S1-0		Matrix Soil	Collection Date 6/26/2019 11:43	Hold	1 A	2 A	3	1		i				10	11	12	
					Hold	-		3 A	1		i				10	11	12	
1906C96-001	S1-0		Soil	6/26/2019 11:43	Hold	-			1		i				10	11	12	
1906C96-001 1906C96-002	<u>\$1-0</u> \$1-2		Soil Soil	6/26/2019 11:43 6/26/2019 11:51	Hold	A	A		1		i				10	11	12	
1906C96-001 1906C96-002 1906C96-003	S1-0 S1-2 S2-0		Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54	Hold	A	A	A	1		i				10	11	12	
1906C96-001 1906C96-002 1906C96-003 1906C96-004	\$1-0 \$1-2 \$2-0 \$2-2		Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00	Hold	A	A	A	1		i				10	11	12	
1906C96-001 1906C96-002 1906C96-003 1906C96-004 1906C96-005	\$1-0 \$1-2 \$2-0 \$2-2 \$3-0		Soil Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00 6/26/2019 12:04		A	A	A	1		i							
1906C96-001 1906C96-002 1906C96-003 1906C96-004 1906C96-005 1906C96-006	S1-0 S1-2 S2-0 S2-2 S3-0 S3-2		Soil Soil Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00 6/26/2019 12:04 6/26/2019 12:12		A	A	A A A	1		i							
1906C96-001 1906C96-002 1906C96-003 1906C96-004 1906C96-005 1906C96-006 1906C96-007	S1-0 S1-2 S2-0 S2-2 S3-0 S3-2 S4-0		Soil Soil Soil Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00 6/26/2019 12:04 6/26/2019 12:12 6/26/2019 09:52		A	A	A A A A	1		i							
1906C96-001 1906C96-002 1906C96-003 1906C96-004 1906C96-005 1906C96-006 1906C96-007 1906C96-009	\$1-0 \$1-2 \$2-0 \$2-2 \$3-0 \$3-2 \$4-0 \$5-0		Soil Soil Soil Soil Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00 6/26/2019 12:04 6/26/2019 09:52 6/26/2019 10:01		A	A	A A A A A A	1		i							
1906C96-001 1906C96-002 1906C96-003 1906C96-004 1906C96-005 1906C96-006 1906C96-007 1906C96-009 1906C96-011	S1-0 S1-2 S2-0 S2-2 S3-0 S3-2 S4-0 S5-0 S6-0		Soil Soil Soil Soil Soil Soil Soil Soil	6/26/2019 11:43 6/26/2019 11:51 6/26/2019 11:54 6/26/2019 12:00 6/26/2019 12:04 6/26/2019 09:52 6/26/2019 10:01 6/26/2019 11:12		A	A	A A A A A A A	1		i							

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11

PBMS_TTLC_S

Test Legend:

1	8081_ESL_LL_S
5	
9	

2	ASMS_6020_TTLC_S
6	
10	

Project Manager: Angela Rydelius

Prepared by: Agustina Venegas

4

8

12

Needs Linko EDD and J-Flag for GBF Landfill **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name			F	Project: Lone Tre	ee Way				k Order: 1906C96	
Client Cont	act: Glenn Your	ng						Q	C Level: LEVEL 2	
Contact's En	mail: Gyoung@tr	ccompanies.com	(Comments: Needs Lir	nko EDD and J-Flag for G	BF Landfill		Date	Logged: 6/26/2019	
		□WaterTrax	WriteOnEDF	Excel	EQuIS 🖌 Email	HardC	opyThirdPart	y 🗌 .	-flag	
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubO Content	ut
1906C96-001A	S1-0	Soil	SW6020 (Arsenic)	1	8OZ GJ, Unpres		6/26/2019 11:43	5 days		
			SW8081A (OC Pesticides) ESLs	3				5 days		
1906C96-002A	S1-2	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres		6/26/2019 11:51	5 days		
1906C96-003A	S2-0	Soil	SW6020 (Arsenic)	1	8OZ GJ, Unpres		6/26/2019 11:54	5 days		
			SW8081A (OC Pesticides) ESLs	3				5 days		
1906C96-004A	S2-2	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres		6/26/2019 12:00	5 days		
1906C96-005A	S3-0	Soil	SW6020 (Arsenic)	1	80Z GJ, Unpres		6/26/2019 12:04	5 days		
			SW8081A (OC Pesticides) ESLs	3				5 days		
1906C96-006A	S3-2	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 12:12	5 days		
1906C96-007A	S4-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 9:52	5 days		
1906C96-009A	S5-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 10:01	5 days		
1906C96-011A	S6-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 11:12	5 days		
1906C96-013A	S7-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 11:01	5 days		
1906C96-015A	S8-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 10:52	5 days		
1906C96-017A	S9-0	Soil	SW6020 (Lead)	1	80Z GJ, Unpres		6/26/2019 11:31	5 days		

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



M

Mountain View Office 1920 Old Middlefield Road. Mountain View 94043 Tel: 650.967.2365 Fax: 650.967.2785

San Francisco 505 Sansome Street, Suite 1600 San Francisco, CA 94111 Tel: 415.644.3000 Fax: 415.541.9378

CHAIN OF CUSTODY RECORD

Project Name: Lone T Job No.:	P.O. #: 2	1	1		around F /orking	lequirements Days	-	1	1		- 1	-		-	-				
Job No.: P.O. #: 338571.] Report To: gyoung@trccompanies.com Sampler (print): Emery Anderson-Merr.H Sampler (signature): Electronic Deliverable Format Required: EDF LOGCODE: TTRCO TTRCC				 ☐ 72 Hours ☐ 24 Hours ☐ 2-3 Hours RUSH ☑ STANDARD QC Requirement: □ Level IV □ EDF 		│ □ Gas E □ Fuel Oxygenates	□ Silica	Full Suite	th SIM	arsenic	ad	(1010)		. (6010)	d Organochlorine Pesticides (8081)		1435		
Global ID # : Sample Type: I⊉∕Soil □ Groundwater				□Excel/EDD		EPA 8015 C X D MTBE	EPA 8015	D8260 VOCs D Fu	8270 SVOCs with SIM		RTotal lead	Archive		Metals: 🛛 CAM 17 (6010)	anochlorine	🗆 PCBs (8082)	estos CARB 435	ents	
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?		Diesel	08260	0 8270	& Total	Q T0	A A		Metals	G Orga	D PCB	□ Asbestos	Comments
51-0	6/26/19	1143		50.1	1	ice					X					×			
SI-2	6/26/A			1	1							×					-		
52-0	1	1154		113	1						×					×			5
52-2		1200	1000		1							×							
53-0		1204			1					1 1	×					X			
83-2		1212			1							×							
54-0		0952			1					- i	1.1.1	×							
54-2		0958			1							17.1	×						
55-0 55-2		1001			1		24					X							
55-2		1011			1					-			×						
56-0		1112			1				0			×							
56-2	1	1118		1	1	5			6	-	V		\times	- 1	•Z				
Relinquished By:	mh	-	Date: 6	126/19	1 13	5.03	Rece	ived By	Th	2	P		Date:	6/20	10	Time:	13.	:03	PM Initial:
Relinquished By:	/		Date:		Time:		Rece	ived By		1	D		Date:	10-1	1.	Time:			0
Relinquished By:			Date:		Time:		Lab c	of Recor	rd:										Temp
							Rece	ived by	Lab:				Date:			Time:			1 m

^{*}Ests added 6/26/19 PUR-6.4.

Page/19 of 22



1

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San Francisco 505 Sansome Street, Suite 1600 San Francisco, CA 94111 Tel: 415.644.3000 Fax: 415.541.9378

CHAIN OF CUSTODY RECORD

Job No.: P.O. #: 338571.1 Report To: gyoung @ +rccompanies.com Sampler (print): Emery Anderson - MernH Sampler (signature): M Electronic Deliverable Format Required: PTES DNO EDF LOGCODE: DTRCO DTRCC Global ID #: Sample Type: Soil D Groundwater Sample I.D.				 □ 5 Working Days □ 72 Hours □ 24 Hours □ 2-3 Hours RUSH ☑ 2-3 Hours RUSH ☑ QC Requirement: □ Level IV □ EDF □ Excel/EDD 		I EPA 8015 □ Gas EX □ MTBE □ Fuel Oxygenates	H EPA 8015 □ Silica Gel eel □ Motor Oil □ Other	ocs 🗆 Full S	□ 8270 SVOCs □with SIM	Total arsenic	Total lead	Archive (HOID)		Metals: 🗆 CAM 17 (6010)	Organochlorine Pesticides (8081)	PCBs (8082)	Asbestos CARB 435	ments	
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?	DTPH E	Diesel	□8260	D 8270	T	P	5		Metals:	🖪 Orga		□ Asbe	Comments
57-0	6126/14	101	-	50.1	1	ice			-			×							
57-2		1107			1			1.1					X	-					
58-0		1052			1							×					-		
58-2		1057			1		-						×						
59-0		1131			1							×							
59-2	1.1.1	1139			1								×						
5 10-0		1013			1					1			×						
510-2		1018			1			. T.					X						
511-0		1022			١								X						
SII - 2		1027			1								X						
512 -0		1031			1				()				X						
512-2	J.	1038		1	1	J.			V	\square	\square		X						
Relinquished By: 52	7h	2	Date: 61	26/1	7 17	5:03	Rece	ived By	X	ve	K		Date:	6/2	119	Time:	13	:03	PM Initial:
Relinquished By:	/		Date:		Time:	c - 2	Rece	ived By	/: \		D		Date:	~/~		Time:			
Relinquished By:			Date:		Time:		Lab o	f Reco	NH.		1								Temp:
							Recei	ived by	Lab.		-		Date:			Time:			

Page 20 of 22



P

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San Francisco 505 Sansome Street, Suite 1600 San Francisco, CA 94111 Tel: 415.644.3000 Fax: 415.541.9378

CHAIN OF CUSTODY RECORD

Job No.: P.O. #: 338571.1 Report To: gyoung @ trccompanies.com Sampler (print): Emery Anderson-Mer. H Sampler (signature): Electronic Deliverable/Format Required: EDF LOGCODE: I TRCO I TRCC Global ID #: Sample Type: IPSoil I Groundwater			Turnaround Requirements 5 Working Days 72 Hours 24 Hours 2-3 Hours RUSH STANDARD QC Requirement: Level IV EDF DExcel/EDD			EPA 8015 □ Gas < □ MTBE □ Fuel Oxygenates EPA 8015 □ Silica Gel	A Motor Oil Other	□8260 vocs □ Full Suite	SVOCs Dwith SIM	8270 SVOCS Dwith SIM Total orservic	Total lead	Archive (HOID)		Metals: 🗆 CAM 17 (6010)	Organochlorine Pesticides (8081)	(8082)	Asbestos CARB 435	nts	
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?		Diesel	□8260 \	D 8270	D Tot	⊠ To	q Ar		Metals:		□ PCBs (8082)	□ Asbes	Comments
513-0	6126/19	1043		Soil	1	ice							×			1			
513-2	6/26/19	1048		So.1	1	ice			_				×						
Relinquished By: Con		2	Date: 61	26/19	L3	:03	Rece	ived By		2		2	Date:	Q[20	119	Time:	/3:	03	PM Initial:
Relinquished By:	/		Date:	2.17	Time:			ived By	-	11	1)	Date:	41-4	1	Time			
Relinquished By:	/		Date		Time:		1.000	of Recor	1		1	_	Duto,					-	Temp:
					1 8115			ived by	-				Date:			Time			Page 21 of 2



Sample Receipt Checklist

Client Name:	TRC				Date and Time Received	6/26/2019 13:03
Project:	Lone Tree Way				Date Logged: Received by:	6/26/2019 Tina Perez
WorkOrder №: Carrier:	1906C96 <u>Client Drop-In</u>	Matrix: <u>Soil</u>			Logged by:	Agustina Venegas
		Chain of (Sustad	(COC) Infor	mation	
Chain of quotadu	nrecent?		-			
Chain of custody		la di an dina a basili.	Yes			
	signed when relinquis		Yes	✓	No 🗌	
-	agrees with sample la	adeis ?	Yes			
	d by Client on COC?		Yes		No 🗌	
	f collection noted by C	lient on COC?	Yes		No	
Sampler's name	noted on COC?		Yes		No 🗌	
COC agrees with	Quote?		Yes		No 🗌	NA 🗹
		Samp	le Rece	eipt Informati	on	
Custody seals int	act on shipping conta	iner/cooler?	Yes		No 🗌	NA 🖌
Shipping containe	er/cooler in good cond	lition?	Yes	✓	No 🗌	
Samples in prope	er containers/bottles?		Yes	✓	No 🗌	
Sample container	rs intact?		Yes	✓	No 🗌	
Sufficient sample	volume for indicated	test?	Yes		No 🗌	
		Sample Preservati	on and	Hold Time (I	HT) Information	
All samples recei	ved within holding tim	e?	Yes	✓	No 🗌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌	
		(Ісе Тур	e: WE			
Sample/Temp Bla	ank temperature			Temp: 4.6		
Water - VOA vial	s have zero headspac	ce / no bubbles?	Yes		No 🗌	NA 🔽
Sample labels ch	ecked for correct pres	servation?	Yes	✓	No	
pH acceptable up <2; 522: <4; 218.		Nitrate 353.2/4500NO3:	Yes		No 🗌	NA 🗹
UCMR Samples:						
	acceptable upon rece 3; 544: <6.5 & 7.5)?	pt (200.8: ≤2; 525.3: ≤4;	Yes		No 🗌	NA 🗹
Free Chlorine to	ested and acceptable	upon receipt (<0.1mg/L)?	Yes		No	NA



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1906C96 A

Report Created for: TRC

2300 Clayton Road, Suite 610 Concord, CA 94520

Project Contact: Project P.O.: Project:

Glenn Young 338571.1 Lone Tree Way

Project Received: (

06/26/2019

Analytical Report reviewed & approved for release on 07/19/2019 by:

fai Go

Yen Cao Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com CA ELAP 1644 ♦ NELAP 4033 ORELAP



Glossary of Terms & Qualifier Definitions

Client:	TRC
Project:	Lone Tree Way
WorkOrder:	1906C96 A

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



 Client:
 TRC

 Date Received:
 6/26/19 13:03

 Date Prepared:
 7/12/19

 Project:
 Lone Tree Way

WorkOrder:	1906C96
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead	I		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S10-0	1906C96-019A	Soil	06/26/2019 10:13	ICP-MS2 053SMPL.D	181509
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	34		0.50 1		07/19/2019 14:34
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
Terbium	102		70-130		07/19/2019 14:34
<u>Analyst(s):</u> MIG					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S11-0	1906C96-021A	Soil	06/26/2019 10:22	ICP-MS2 093SMPL.D	181509
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	18		0.50 1		07/19/2019 07:13
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
Terbium	100		70-130		07/19/2019 07:13
<u>Analyst(s):</u> ND					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S12-0	1906C96-023A	Soil	06/26/2019 10:31	ICP-MS2 156SMPL.D	181509
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Lead	17		0.50 1		07/18/2019 13:44
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	99		70-130		07/18/2019 13:44
<u>Analyst(s):</u> MIG					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S13-0	1906C96-025A	Soil	06/26/2019 10:43	ICP-MS2 157SMPL.D	181509
Analytes	<u>Result</u>		<u>RL</u> DF		Date Analyzed
Lead	12		0.50 1		07/18/2019 13:51
<u>Surrogates</u>	<u>REC (%)</u>		Limits		
Terbium	101		70-130		07/18/2019 13:51
Analyst(s): MIG					

Client:	TRC
Date Prepared:	7/12/19
Date Analyzed:	7/16/19 - 7/17/19
Instrument:	ICP-MS3
Matrix:	Soil
Project:	Lone Tree Way

WorkOrder:	1906C96
BatchID:	181509
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg
Sample ID:	MB/LCS/LCSD-181509

	QC Sur	nmary R	eport for	Metals					
Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC		IB SS imits
Lead	ND		0.094	0.50		-	-	-	
Surrogate Recovery									
Terbium	520					500	104	7	0-130
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	51	51	50		102	103	75-125	0.605	20
Surrogate Recovery									
Terbium	520	520	500		103	105	70-130	1.38	20

McCampbell 1534 Willow Pas Pittsburg, CA 94 (925) 252-9262	ss Rd	lnc.					\-0F er: 190					COF :: trc			Page		
(923) 232 9202		Water	Trax WriteO	n 🔤 EDF		Excel]EQuIS		Email	L	HardCo	ору	Third	Party	_]J-fla	g
						Detectio	on Summ	nary		Dry-We	ght						
Report to:						E	Bill to:						Requ	ested TA	T:	5 days;	
Glenn Young		Email:	Gyoung@trcco	mpanies.com			Accou	ints Pay	able								
TRC		cc/3rd Part	y:				TRC						D (л ·	,	0.000	2010
2300 Clayton Road,	Suite 610	PO:	338571.1				21 Gri	ffin Roa	ad North	۱			Date	Receive	a:	06/26/	2019
Concord, CA 94520)	Project:	Lone Tree Way	,			Winds	or, CT (06095				Date	Logged	:	06/26/	2019
(925) 688-2479 FA	AX: (925) 688-0388						apinvo	biceapp	roval@	trccomp	oanies.	com	Date	Add-On	:	07/12/	2019
									Re	questec	l Tests	(See leg	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1906C96-019	S10-0		Soil	6/26/2019 10:13		A											
1906C96-021	S11-0		Soil	6/26/2019 10:22		Α											
1906C96-023	S12-0		Soil	6/26/2019 10:31		Α											
1906C96-025	S13-0		Soil	6/26/2019 10:43		Α											

Test Legend:

Project Manager: Angela Rydelius

PBMS_TTLC_S 2 1 6 5 10 9

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7	
11	

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8	
12	

Prepared by: Agustina Venegas Add-On Prepared By: Lilly Ortiz

Needs Linko EDD and J-Flag for GBF Landfill. Total Pb added STAT 7/12/19 **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

	et: Glenn Young			Project:	Lone Tree Way	nd L Eleo for CDE Londfill	Total Dis addad		ork Order: 1906C96 QC Level: LEVEL 2
Contact's Em	ail Gyoung@trccomp	banies.com		Comments	STAT 7/12/19	nd J-Flag for GBF Landfill.	Total PD added		te Logged: 6/26/2019 e Add-On: 7/12/2019
								Dat	e Aud-On: //12/2019
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Hold SubOut Content
1906C96-019A	S10-0	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres	6/26/2019 10:13	5 days	
1906C96-021A	S11-0	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres	6/26/2019 10:22	5 days	
1906C96-023A	S12-0	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres	6/26/2019 10:31	5 days	
1906C96-025A	S13-0	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres	6/26/2019 10:43	5 days	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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Concord Office 2300 Clayton Road, Suite 610 Concord, CA 94520 Tel: 925.688.1200 Fax: 925.688.0388

Mountain View Office 1920 Old Middlefield Road. Mountain View 94043 Tel: 650.967.2365 Fax: 650.967.2785

San Francisco 505 Sansome Street, Suite 1600 San Francisco, CA 94111 Tel: 415.644.3000 Fax: 415.541.9378

CHAIN OF CUSTODY RECORD

Image: The second se			 □ 5 Working Days □ 72 Hours □ 24 Hours □ 2-3 Hours RUSH ☑ STANDARD QC Requirement: □ Level IV □ EDF □ Excel/EDD 			EPA 8015 □ Gas X □ MTBE □ Fuel Oxygenates	□ TPH EPA 8015 □ Silica Gel □Diesel □ Motor Oil □ Other	VOCs 🗆 Full Suite	B270 SVOCs Dwith SIM	ul arsenic		Archive (#01D)		Metals: 🛛 CAM 17 (6010)	Organochlorine Pesticides (8081)	PCBs (8082)	stos CARB 435	ints	
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?		Diese	D8260 VOCs	D 8270	& Total	R Total	R Ar		Metals:	G Orga		□ Asbestos	Comments
51-0	6/26/19	1143		50.1	1	ice					×					×			
51-2	61261A	1151		1	1	1						×							
52-0.		1154			1	+					×					×			5
52-2		1200			1							\times							
53-0		1204			1						X					×			
\$3-2		1212			1							\times							
54-0		0952			1							×							
54-2		0958			1		-	-	[-+]				×						
55-0		1001			1							X							
55-2		1011			1					-			×						
56-0		1112			1			_	0			×		1					
56-2	1	1118		1	1	5			t	-	V		\times	-	,		-	_	
Relinquished By:	mp	-	Date: 60	26/1	1 13	:03	Rece	ived By	M	n	L		Date:	12/24	119	Time:	13.	103	PM Initial:
Relinquished By:	/		Date:		Time:		Rece	ived By		1	\mathcal{D}		Date:			Time:	1		
Relinquished By:	Date:				Time:		Lab of Record:								Tempy))				
							Rece	ived by	Lab:				Date:			Time:			A



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CHAIN OF CUSTODY RECORD

Job No.:	P.O. #:	Vay 338571	1	□ 5\	Norking	Days				1									
		338541	d	- 🗆 72 Hours															
Report To: gyoung (e tracon	npanies. c	com	□ 24	Hours		s												
Sampler (print): Emery Anderson-Merntt					3 Hours	RUSH	genate						2			,			
Report To: gyoung @ trccompanies.com Sampler (print): Emery Anderson-Merntt Sampler (signature):				STA	NDARD		EPA 8015 □ Gas X □ MTBE □ Fuel Oxygenates	ica Ge other			J		A) aff			s (808			
Electronic Deliverable Format Required: PTES DO EDF LOGCODE: TRCO TRCC Global ID # : Sample Type: Soil Groundwater					QC Requirement: □ Level IV □ EDF □Excel/EDD			□ TPH EPA 8015 □ Silica Gel	VOCs		Total arsenic	Total lead	6 (Metals: 🛛 CAM 17 (6010)	Organochlorine Pesticides (8081)	PCBs (8082)	stos CARB 435	stre
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?	DTPH E	Diese	□8260 VOCs	0 8270	P T.	A To	R P		Metals:	I Orga	D PCB	□ Asbestos	Comments
57-0	61261	19 1101		50,1	1	ice						×	1.0						-
57-2		1107			1								×						
58-0		1052			1							×							
58-2		1057			1								×						
59-0		1131			1							×				-			
59-2		1139			1								×						
5 10-0		1013			1							X	×						
510-2		1018			1								X						
511-0		1022			1	1						X	×						
511-2	1.1.2	1027			1				~				X						1
512-0		1031			1					1.1		X	X						
512-2	1	1038		1	1	4			V	\square			X						
Relinquished By: 52	Relinquished By: bhy M Date: 61261					3:03	Rece	ived By	X	ve	K		Date:	6/2	10/19	Time:	13:	03	PM Initial
Relinquished By:	/		Date:		Time:		Rece	ived By	·: \		D		Date:	~/~		Time:			
Relinquished By:	linquished By: Date:				Time:		Lab c	Lab of Record									Temp:		
							Received by Lab: Date: Time:												



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San Francisco 505 Sansome Street, Suite 1600 San Francisco, CA 94111 Tel: 415.644.3000 Fax: 415.541.9378

CHAIN OF CUSTODY RECORD

Project Name: Lone Tree Way Job No.: P.O. #: 338571.1 Report To: gyoung @ trccompanies.com Sampler (print): Enery Anderson-Merr.H Sampler (signature): Electronic Deliverable/Format Required: EDF LOGCODE: TRCO TRCC Global ID #: Sample Type: Soil Groundwater			□ 5 V □ 72 □ 24 □ 2-3 ☑ STAI	72 Hours24 Hours			EPA 8015	D8260 VOCs D Full Suite	8270 SVOCs Dwith SIM	ul orsenic	الدورج	Archive (HOID)		Metals: 🗆 CAM 17 (6010)	Organochlorine Pesticides (8081)	(8082)	Asbestos CARB 435	nts	
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?	│ □TPH EPA 8015 □ □ BTEX □ MTBE	Diesel	□8260 \	□ 8270	1 Total	1 Total	q Ar		Metals:		□ PCBs (8082)	□ Asbes	Comments
513-0	6126/19	1043		So.1	1	ice						X	×					110	
513-2	6/26/19	1048		So.1	1	ice							×						
										2	4								
Relinquished By: Bay Date: 61				2/19	12	:03	Rece	ived B	A		+	D	Date	[0]21	19	Time	13:	03	PM Initial:
Relinquished By: Date:			-0/11	Time:		1.25	ived By		Inv	-7	5	Date:	w/~u	11-1	Time			r winnuai.	
Relinquished By:			Date:		Time: Lab of Record:			rd:		/								Temp:	
							Rece	ived by	Lab:				Date:			Time:			

Page 9 of 9



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1905E83

Report Created for: TRC

2300 Clayton Road, Suite 610 Concord, CA 94520

Project Contact:	
Project P.O.:	
Project:	

Glenn Young 338571.1 338571.1; Giannini Lone Tree Way

Project Received: 05/29/2019

Analytical Report reviewed & approved for release on 06/04/2019 by:

pi Coo

Yen Cao Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



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Glossary of Terms & Qualifier Definitions

Client:	TRC
Project:	338571.1; Giannini Lone Tree Way
WorkOrder:	1905E83

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



 Client:
 TRC

 Date Received:
 5/29/19 11:44

 Date Prepared:
 5/29/19

 Project:
 338571.1; Giannini Lone Tree Way

WorkOrder:	1905E83
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead	l			
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S1	1905E83-001A	Soil	05/29/2019	10:50	ICP-MS2 030SMPL.D	178670
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	89		0.50	1		05/30/2019 16:31
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	110		70-130			05/30/2019 16:31
<u>Analyst(s):</u> MIG						
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S2	1905E83-002A	Soil	05/29/2019	10:56	ICP-MS2 048SMPL.D	178670
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	150		0.50	1		05/30/2019 18:20
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	104		70-130			05/30/2019 18:20
<u>Analyst(s):</u> MIG						
Client ID	Lab ID	Matrix	Date Colle	ected	Instrument	Batch ID
S3	1905E83-003A	Soil	05/29/2019	11:02	ICP-MS2 049SMPL.D	178670
<u>Analytes</u>	<u>Result</u>		RL	DF		Date Analyzed
Lead	110		0.50	1		05/30/2019 18:26
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Terbium	113		70-130			05/30/2019 18:26
<u>Analyst(s):</u> MIG						

Client:	TRC	WorkOrder:	1905E83
Date Prepared:	5/29/19	BatchID:	178670
Date Analyzed:	5/30/19	Extraction Method:	SW3050B
Instrument:	ICP-MS3	Analytical Method:	SW6020
Matrix:	Soil	Unit:	mg/Kg
Project:	338571.1; Giannini Lone Tree Way	Sample ID:	MB/LCS/LCSD-178670

QC Summary Report for Metals

	-	v														
Analyte	MB Result		MDL	RL		SPK Val	MB SS %REC		IB SS imits							
Lead	ND		0.094	0.50		-	-	-								
Surrogate Recovery																
Terbium	550					500	110	7	0-130							
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit							
Lead	50	50	50		100	99	75-125	0.841	20							
Surrogate Recovery																
Terbium	550	550	500		109	109	70-130	0	20							

•	bell Analytical, ^{llow Pass Rd}	Inc.		CHA	λIΝ	-OF	-CL	IST	ODY	' RE	COF	RD		Page	1 of	1	
Pittsburg	g, CA 94565-1701				WorkOrder: 1905E83 ClientCo							TRCC					
(925) 25	2-9262	□WaterTrax	WriteOn	EDF	Exc	cel		EQuIS	✓	Email	[HardCo	ру	ThirdPa	irty	J-fla	ıg
					De	tection	Summa	ary		Dry-Wei	ght						
Report to:						Bill	to:						Reque	sted TAT:	ļ	5 days;	
Glenn Young			Gyoung@trccor	•			Accour	nts Pay	able								
TRC			c ^{/3rd Party:} eandersonmerritt@trccompanies.com; TRC									D					
2300 Clayton	Road, Suite 610	PO:	338571.1			2	21 Grif	fin Roa	d Nort	h			Date Received: 05/29/2019				
Concord, CA	94520	Project:	338571.1; Gian	Windsor, CT 06095							Date 1	Date Logged: 05/29/					
(925) 688-2479	FAX: (925) 688-0388					ä	apinvoi	iceapp	roval@	trccomp	anies.	com					
									Re	equested	l Tests	(See leg	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
4005500.004	04		0.1	5/00/00 40 40 50					1	-							
1905E83-001	S1		Soil	5/29/2019 10:50		A				_		_				_	
1905E83-002	S2		Soil	5/29/2019 10:56		A						1					

А

5/29/2019 11:02

Test Legend:

1905E83-003

1	PBMS_TTLC_S
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Soil

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4	
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12	

Project Manager: Angela Rydelius

Prepared by: Tina Perez

Comments: Needs Linko EDD and J-Flag for GBF Landfill

S3

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

WORK ORDER SUMMARY

	act: Glenn You	ng rccompanies.com			·	; Giannini Lone Tree W ko EDD and J-Flag for Gl		Work Order: 1905E83 QC Level: LEVEL 2 Date Logged: 5/29/2019				
		WaterTrax	WriteOn	EDF	Excel	EQuIS JECuis	HardCo	opy ThirdPart	y 🖂	-flag		
Lab ID	Client ID	Matrix	Test Name		Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	ТАТ	Sediment Hold SubOut Content		
1905E83-001A	S1	Soil	SW6020 (Lead)		1	80Z GJ, Unpres		5/29/2019 10:50	5 days			
1905E83-002A	S2	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres		5/29/2019 10:56	5 days			
1905E83-003A	S3	Soil	SW6020 (Lead)		1	8OZ GJ, Unpres		5/29/2019 11:02	5 days			

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



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1905EB3

CHAIN OF CUSTODY RECORD

Project Name: Giannini Lone Tree Way					around F	Requirements	-											
Job No.: 338571.1	P.O. #:	338571.	1	□ 5 Working Days □ 72 Hours														
Report To: gyoung@trccompanies.com, eandersonmerritt@trccompanies.com			□ 24 Hours			s				(6010/6020)								
Sampler (print): Emery Anderson - Merritt Sampler (signature): Electronic Deliverable Format Required: EDF LOGCODE: TRCO TRCC Global ID # : Sample Type: Soil Groundwater		STAI	STANDARD			ca Gel ther							; (8081)					
			IC Requ Level IV EDF Excel/EI		EPA 8015 Cas X DMTBE Fuel	EPA 8015	VOCs	B270 SVOCs Dwith SIM	LEAD			□ CAM 17 (6010)	Organochlorine Pesticides	□ PCBs (8082)	sstos CARB 435	ents		
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	# of cont	Preserved?		Diesel	□8260 VOCs	D 8270	B TOTAL			Metals:	🗆 Orga		□ Asbestos	Comments
51	5/29	10:50 4	-	Soil	1	ICE					\times							
52	5/29	10:56 A		50.1	1	ice					X							
53	5/29	11:0ZA		50,1	١	ice					×							
								2										
	-								P	D								
Relinquished By: Bm M Date: 51			29			Rece	ived By	that	K		Date:	5/20	alia	Time	11:	44	PM Initial:	
Relinquished By: Date:				Time:		Rece	ived By		C)	Date:			Time				
Relinquished By:			Date:		Time:		Lab o	of Reco	rd:	1			_					Temp:
							Rece	ived by	Lab:			Date:			Time			7.2 We

Page 7 of 8



Sample Receipt Checklist

Client Name: TRC Project: 338571.1; Giannini Lone Tree Way				Date and Time Received Date Logged:	5/29/2019 11:44 5/29/2019	
110,000					Received by:	Tina Perez
WorkOrder №:	1905E83	Matrix: <u>Soil</u>			Logged by:	Tina Perez
Carrier:	<u>Client Drop-In</u>					
Chain of Custody (COC) Information						
Chain of custody present?			Yes		No 🗌	
Chain of custody signed when relinquished and received?			Yes		No 🗌	
Chain of custody agrees with sample labels?			Yes	✓	No 🗌	
Sample IDs noted by Client on COC?			Yes	✓	No 🗌	
Date and Time of collection noted by Client on COC?			Yes		No 🗌	
Sampler's name noted on COC?			Yes	\checkmark	No 🗌	
COC agrees with Quote?			Yes		No 🗌	NA 🗹
Sample Receipt Information						
Custody seals intact on shipping container/cooler?			Yes		No 🗌	NA 🗹
Shipping container/cooler in good condition?			Yes	✓	No 🗌	
Samples in proper containers/bottles?			Yes	✓	No 🗌	
Sample containers intact?			Yes	✓	No 🗌	
Sufficient sample volume for indicated test?			Yes	✓	No 🗌	
Sample Preservation and Hold Time (HT) Information						
All samples received within holding time?			Yes	\checkmark	No 🗌	
Samples Received on Ice?			Yes	✓	No 🗌	
(Ice Type: WET ICE)						
Sample/Temp Bla	Sample/Temp Blank temperature			Temp: 7.2	2°C	
Water - VOA vials have zero headspace / no bubbles?			Yes		No 🗌	NA 🗹
Sample labels checked for correct preservation?			Yes	✓	No 🗌	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?			Yes		No 🗌	NA 🗹
<u>UCMR Samples:</u> pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?			Yes		No 🗌	
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?			Yes		No 🗌	NA

APPENDIX G: UCL STATISTICS FOR LEAD RESULTS

1 2						
<u> </u>		1				
3	User Selected Options Date/Time of Computation	ProUCL 5.17/24/2019 4:	36:27 PM			
4 5	From File	WorkSheet.xls				
6	Full Precision	DFF				
7	Confidence Coefficient	95%				
8	Number of Bootstrap Operations	2000				
9						
10 11	Lead					
2						
3			General	Statistics		
4	Total	Number of Observations	13	Number of Distinct Observations	11	
5		N.I	10	Number of Missing Observations	0	
6		Minimum Maximum	12 150	Mean Median	43.2	
7		SD	44.21	Std. Error of Mean	12.2	
8 9		Coefficient of Variation	1.023	Skewness	1.67	
20						
21			Normal C	GOF Test		
22		hapiro Wilk Test Statistic	0.712	Shapiro Wilk GOF Test		
3	5% S	hapiro Wilk Critical Value Lilliefors Test Statistic	0.866	Data Not Normal at 5% Significance Level Lilliefors GOF Test		
24		% Lilliefors Critical Value	0.307	Lillefors GOF Test Data Not Normal at 5% Significance Level		
25 26	5			% Significance Level		
7				-		
28			suming Norr	nal Distribution		
29	95% No	ormal UCL		95% UCLs (Adjusted for Skewness)		
80		95% Student's-t UCL	65.08	95% Adjusted-CLT UCL (Chen-1995)	69.4	
1				95% Modified-t UCL (Johnson-1978)	66.0	
2			Gamma	GOF Test		
3		A-D Test Statistic	1.169	Anderson-Darling Gamma GOF Test		
5		5% A-D Critical Value	0.751	Data Not Gamma Distributed at 5% Significance Leve	əl	
6		K-S Test Statistic	0.258	Kolmogorov-Smirnov Gamma GOF Test		
37		5% K-S Critical Value	0.241	Data Not Gamma Distributed at 5% Significance Leve	əl	
8		Data Not Gam	na Distribute	ed at 5% Significance Level		
9			Gommo	Statistics		
0		k hat (MLE)	1.486	k star (bias corrected MLE)	1.19	
.1 .2		Theta hat (MLE)	29.1	Theta star (bias corrected MLE)	36.2	
.2		nu hat (MLE)	38.62	nu star (bias corrected)	31.0	
4	M	MLE Mean (bias corrected) 43.23 MI		MLE Sd (bias corrected)	39.5	
15				Approximate Chi Square Value (0.05)	19.3	
6	Adjus	sted Level of Significance	0.0301	Adjusted Chi Square Value	18.0	
7						
		As	suming Gam	ma Distribution		
	95% Approximate Gamma		suming Gam 69.48	ma Distribution 95% Adjusted Gamma UCL (use when n<50)	74.5	
9	95% Approximate Gamma				74.5	
48 49 50		a UCL (use when n>=50))		95% Adjusted Gamma UCL (use when n<50) GOF Test	74.5	
19 50	S	a UCL (use when n>=50))	69.48 Lognormal 0.855	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test	74.5	
9 50 51 52	S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value	69.48 Lognormal 0.855 0.866	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level	74.5	
9 50 51 52 53	S 5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic	69.48 Lognormal 0.855 0.866 0.221	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test	74.5	
9 60 61 62 63 64 65	S 5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value	69.48 Lognormal 0.855 0.866 0.221 0.234	95% Adjusted Gamma UCL (use when n<50) GOF Test Chaptro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level	74.5	
9 50 51 52 53 54 55 56	S 5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value	69.48 Lognormal 0.855 0.866 0.221 0.234	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test	74.5	
9 60 61 62 63 64 65	5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma	95% Adjusted Gamma UCL (use when n<50) GOF Test Comparison Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics		
9 60 61 62 63 64 67 67 88	5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485	95% Adjusted Gamma UCL (use when n<50) I GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics Mean of logged Data	3.35	
9 i0 i1 i2 i3 i4 i5 i6 i6 i7 i8 i8 i9 i0	5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma	95% Adjusted Gamma UCL (use when n<50) GOF Test Comparison Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics	3.35	
.9 i0 i1 i2 i3 i4 i5 i6 i7 i8 i9 i0 i1 i1 i2 i3 i4 i5 i6 i7 i8 i9 i0 i1 i1 i2 i3 i4 i5 i5 i6 i7 i7 i6 i7 i6 i7 i7 i6 i7 i6 i7 i6 i7 i6 i7 i6 i6 i7 i7 i6 i6 i7 i6 i6 i7 i6 i6 i7 i6 i6 i7 i6 i6 i6 i7 i6 i6 i7 i6 i6 i6 i6 i6 i6 i6 i6 i6 i6	5% S	a UCL (use when n>=50)) chapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics Mean of logged Data SD of logged Data	3.35	
.9 .0 .1 .2 .3 .3 .4 .5 .6 .7 .8 .9 .0 .1 .2 .2 .1 .2 .2 .3 .5 .6 .7 .8 .9 .0 .1 .2 .3 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	5% S	a UCL (use when n>=50)) chapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011	95% Adjusted Gamma UCL (use when n<50) I GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics Mean of logged Data	3.39	
.9 i0 i1 i2 i3 i4 i5 i6 i7 i8 i9 i0 i1 i2 i3 i3 i4 i5 i6 i7 i8 i9 i0 i1 i2 i3 i4 i5 i6 i7 i7 i8 i9 i9 i9 i9 i9 i9 i9 i9 i9 i9	5% S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011	95% Adjusted Gamma UCL (use when n<50) GOF Test GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level sormal at 5% Significance Level I Statistics I Statistics GMean of logged Data SD of logged Data	3.39	
9 60 61 62 63 64 67 68 69 60 61 62 63 63 64	S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Assu 95% H-UCL	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 Jming Logno 78.76	95% Adjusted Gamma UCL (use when n<50) GOF Test GoF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level Tormal at 5% Significance Level IStatistics IStatistics Mean of logged Data SD of logged Data Frmal Distribution 90% Chebyshev (MVUE) UCL	3.39	
9 60 61 62 63 65 66 67	S	a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Maximum of Logged Data Assu 95% H-UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 Jming Logno 78.76 84.69 140.9	95% Adjusted Gamma UCL (use when n<50) GOF Test GoF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level Tormal at 5% Significance Level I Statistics I S	3.39	
9 0 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 7 7	S	a UCL (use when n>=50)) shapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Assu 95% H-UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 uming Logno 78.76 84.69 140.9 etric Distribut	95% Adjusted Gamma UCL (use when n<50) I GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level normal at 5% Significance Level I Statistics I Statistics Mean of logged Data SD of logged Data Ormal Distribution 90% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 1 Statistics	3.39	
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 8 9 0 1 2 8 9 0 1 2 8 9 0 1 2 8 9 0 1 2 8 9 0 1 8 9 0 7 8 9 0 8 9 9 0 8 9 9 0 1 9 9 9 1 9 9 9 9 9 9 9 9 9 9 9 9	S	a UCL (use when n>=50)) shapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Assu 95% H-UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 uming Logno 78.76 84.69 140.9 etric Distribut	95% Adjusted Gamma UCL (use when n<50) GOF Test GoF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level Tormal at 5% Significance Level I Statistics I S	3.39	
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9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1		a UCL (use when n>=50)) hapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Maximum of Logged Data Assu 95% H-UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Nonparame Data appear to follow a	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn 2.485 5.011 uming Logno 78.76 84.69 140.9 etric Distribut Discernible I rametric Dist	95% Adjusted Gamma UCL (use when n<50) GOF Test Shapiro Wilk Lognormal GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level formal at 5% Significance Level I Statistics I Statistics Distribution I Statistics I Statistics	3.39 0.83 71.0 103.7 65.0	
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9 0 1 2 3 3 4 5 5 6 6 7 8 8 9 0 0 1 2 2 3 4 5 5 6 6 7 7 8 8 9 0 0 1 2 2 3 4 1 2 2 3 3 4 1 2 2 3 5 5 6 6 7 7 8 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 5 6 6 6 7 7 7 8 8 9 9 0 0 1 1 2 7 7 8 8 8 9 9 0 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S 5% S 5% S 95% 99%	a UCL (use when n>=50)) shapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Maximum of Logged Data State State State State State State State State State State State State Sta	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 uning Logno 78.76 84.69 140.9 etric Distribut Discernible I rametric Dist 63.4 62.48 62.28 67.77	95% Adjusted Gamma UCL (use when n<50) GOF Test GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level ormal at 5% Significance Level I Statistics I St	3.39 0.83 71.0 103.7 65.0 81.6 64.1	
9 0 1 2 3 3 4 5 6 7 8 8 9 0 1 2 3 3 4 5 6 6 7 8 9 9 0 1 1 2 2 3 4 1 2 2 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 8 7 7 8 8 9 9 0 1 2 2 3 8 7 7 7 7 7 8 8 8 9 9 9 0 1 7 7 7 7 8 8 8 9 9 0 1 7 7 7 8 8 8 9 9 9 0 1 7 7 7 7 8 8 8 9 9 0 1 7 7 8 8 8 9 9 0 1 7 7 8 8 8 9 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S 5% S 5% S 99% 99% 99% 99% 99% 99% 99%	a UCL (use when n>=50)) chapiro Wilk Test Statistic hapiro Wilk Critical Value Lilliefors Test Statistic % Lilliefors Critical Value Data appear Appro Minimum of Logged Data Maximum of Logged Data Maximum of Logged Data Assu 95% H-UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Chebyshev (MVUE) UCL Standard Bootstrap UCL 95% BCA Bootstrap UCL 195% BCA Bootstrap UCL 195% BCA Bootstrap UCL	69.48 Lognormal 0.855 0.866 0.221 0.234 ximate Logn Lognorma 2.485 5.011 Juning Logno 78.76 84.69 140.9 Petric Distribut Discernible I rametric Distribut 63.4 62.48 62.28 67.77 80.01	95% Adjusted Gamma UCL (use when n<50) GOF Test GOF Test Data Not Lognormal at 5% Significance Level Lilliefors Lognormal GOF Test Data appear Lognormal at 5% Significance Level ormal at 5% Significance Level I Statistics I St	3.39 0.83 71.0 103.7 65.0 81.6 64.1 96.6	
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APPENDIX H: TRC STAFF AND ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS/RESUMES



Glenn S. Young, PG, LEED AP

EDUCATION

M.S., Environmental Management, University of San Francisco, 1993 B.S., Geology, University of Colorado, Boulder, 1987

PROFESSIONAL REGISTRATIONS

Professional Geologist, California #6406

AREAS OF EXPERTISE

Mr. Young has expertise in the following areas:

- Environmental Site Assessments, Phase I & Phase II
- Remedial Investigations and Site Characterization
- Vapor Intrusion and Soil Vapor Characterization
- Soil and Groundwater Remediation
- Brownfield Redevelopment
- Risk-Based Site Closures

REPRESENTATIVE EXPERIENCE

Mr. Young has over 25 years environmental consulting experience focusing on geologic and hydrogeologic characterization, risk management, and remediation for public, private, and governmental sector clients. He has a history of providing safe, timely, and fiscally responsible consulting services for contaminated soil, soil-vapor, and groundwater sites.

Mr. Young has managed a full range of environmental consulting projects, including large and small multi-disciplinary projects, planning, estimating, contract procurement, construction management, public outreach, and the negotiations with both clients, regulatory, and various resource agencies. Projects typically involve Brownfield redevelopment, infrastructure support, facility improvement and/or closures, firing ranges, dry cleaners, UST sites, park lands, and wetland restoration. Mr. Young has also served as Program Manager for several high profile As-Needed environmental consultation projects, including contracts for SFIA, SFDPW, SFPUC, and OPWD. Recent peer review services have required significant strategic and timely discussion with a variety of stakeholders, responsible parties, resource agencies (Coastal Commission, USDFW, NOAA, CDFG, USCOE), as well as State and local regulators (DTSC and RWQCB).

The following are example projects for Mr. Young.

San Francisco As-Needed Risk Management Services, SFDPW,

California. As Program Manager for several "on-call" contract with the City of San Francisco Department of Public Works, Mr. Young has managed hazardous materials investigations for water distribution, roadway improvement, library, school, park, and redevelopment projects. He was instrumental in negotiating the cleanup approach with DTSC and



successfully managed the Remedial Action at the former Sharp Park Rifle Range Project in Pacifica. Other projects completed on behalf of the SFDPW include, the Octavia Boulevard Improvement Project; hydrogeologic and water quality investigation at the Upper Islais Valley and the Westside Basin for SFPUC's Groundwater Protection Division; stormwater program consultation, habitat restoration, and UST investigations and closure for a dozen SFFD stations. Recent investigations include Maher characterizations for the Civic Center Plaza and proposed Office of the Chief Medical Examiner.

Georgia Pacific Mill Site, Fort Bragg, California. Peer review services to the City of Fort Bragg regarding the hazardous materials investigation, remedial, risk assessment, remediation, and redevelopment activities at the former Mill Site. This property is approximately 25 percent of the total land currently incorporated within the City of Fort Bragg. Mr. Young is also participating in regular stakeholder meetings as well as community workshops designed to inform the general public of findings and answer questions regarding the chemicals detected at the site

Oakland As-Needed Environmental Services, Oakland, California. Program Manager for several "as-needed" contracts with the City of Oakland. Mr. Young has managed numerous traffic improvement, school, library, infrastructure improvement, and redevelopment projects requiring Phase I and II site assessments, UST upgrade, and risk assessment services. He has managed site assessments, groundwater investigations, remedial actions, facility closures, and UST projects. Directed numerous environmental projects involving community participation and has routinely negotiated with State and local regulatory agencies regarding all phases of investigation, risk assessment, remediation, and case closure.

Taylor Yard Redevelopment Parcel, Los Angeles, California. Coordinated the Phase II soil and soil-vapor site characterization for this mixed-use redevelopment at the former Metropolitan Transportation Authority (MTA) property. Results of the investigation identified "hot spots" that warranted remediation. Remedial action to remove soil with elevated PAHs, hydrocarbons, arsenic, and lead resulted in No Further Action determination from the DTSC.

Stulsaft Park Mercury Mine, Redwood City, California. Conducted the comprehensive records review, site investigation, and risk assessment of this former open pit mercury mining operation. City and neighborhood groups were preparing to build a tot-lot within the City park when they discovered the historical mercury mine operations. Mr. Young fast-tracked the investigation by coordinating with the USGS, DTSC, and San Mateo County to confirm that residual mercury impacts in soil, sediment, and ambient air posed no significant risk to the community. Investigation included air monitoring for volatile mercury at the tot-lot and proposed ball fields as well as participation in public meetings.



Caterpillar Inc., San Leandro, California. Managed operations, maintenance, and groundwater treatment systems at a former heavy equipment manufacturing facility. He conducted high-resolution subsurface evaluations for contaminant delineation, well siting, and hydraulic containment activities. He operated and maintained three treatment systems in accordance with NPDES and BAAQMD permits. Mr. Young conducted routine and non-routine maintenance activities, including evaluation of pump curves, and contaminant loading on GAC and resin adsorption vessels.

PG&E Gas Gathering Facilities – Northern California. Investigation manager responsible for implementing the Site Characterization Work Plans at numerous gas gathering facilities in the Delta and northern California regions. Investigations involved coordination with local PG&E staff to locate, access, implement programmatic soil and groundwater sampling activities. Interpreted results and prepared reports for review and consideration by PG&E technical staff. Managed field staff and drilling contractors, sample handling, laboratory reporting, and waste characterization to meet PG&E requirements.

Former Mission Village Dry Cleaners, Fairfield, California. Managed the investigation, strategic planning, corrective action plan and implementation, and groundwater remediation services. Services included high-resolution site characterization using CPT and MIP technologies, preparation of the Conceptual Site Model and Feasibility Study to determine the cost and effectiveness of in situ enhancement for the biodegradation of dry cleaner solvents at the site, and Corrective Action Plan. Procured Case Closure using the RWQCB's low risk closure process for chlorinated solvents.

City of Livermore Downtown Redevelopment Area – Brownfields Grant, Livermore, California. Assisted the City of Livermore with the Brownfields Grants from the USEPA that they had won to characterize the Downtown Redevelopment Area. Managed the project that included a number of Phase 1 ESAs for prioritized sites. Based on those findings, Mr. Young developed a scope of soil, groundwater, and soil-gas testing to evaluate the presence, extent, and potential human health risk associated with historical sites uses. Key to the process was negotiating with Alameda County Health Services, the RWQCB, and the USEPA to provide the City with efficient consulting services as well as to strategize about the various agency concerns in the Downtown Core area. Prepared the detailed Sampling and Analysis Plan (SAP) as required by the EPA, including the appropriate discussion regarding Data Quality Objectives (DQOs) and Indicators (DQIs).

Exxon Company, U.S.A, Benicia, California. Project manager for the soil and groundwater investigation for the entire refinery. He compiled available subsurface data and prepared a Work Plan to satisfy Waste Discharge Requirements established by the RWQCB for the refinery. He



oversaw hydrogeological and contaminant characterizations for the entire refinery, including the wastewater treatment area, bulk storage fields, and waste piles. Mr. Young managed a large, multi-disciplinary project team, interacted with refinery managers, conducted presentations and negotiations with regulatory agencies, and prepared assessment reports.

CDCR Prison Sites - Vacaville, Folsom and Stockton, California. Principal in Charge for the investigation/assessment of areas within and surrounding three existing prison facilities. Coordinated Phase I and II ESA's for the Stockton prison including extensive hazardous building materials surveys for demolition of the existing 19 buildings. Participated in both regulatory and design team discussions of the potential environmental issues at each facility. At the Stockton site provided subsequent consultation regarding impacted groundwater below the site resulting from releases from an up gradient landfill site.

Citation Homes Central, San Leandro, California. Construction manager for site investigation and remediation at former explosives manufacturing facility (nitrostarch) in preparation for residential development and wetlands restoration. He prepared and implemented the *Site Investigation Work Plan* and prepared the *Investigation Completion Reports, Engineering Evaluation/ Cost Analysis* (EE/CA) to select a remedial alternative for the site. Mr. Young also conducted soil remediation and air monitoring as required. He participated in public meetings as part of EE/CA and CEQA processes including numerous local, state and federal agencies. He routinely reported findings and negotiated with RWQCB and DTSC caseworkers and procured regulatory closure from DTSC.

Cottage Hospital, Santa Barbara, California. Managed the envirionmental cleanup and reporting requirements during construction of the new power plant facility at the hospital. To comply with the Office of Statewide Health Planning & Development (OSHPD), Cottage Hospital reconstructed the hospital as a completely new facility on and around the existing facility. Mr. Young prepared and implemented a Soil Management Plan to comply with certain Deed Restriction requirements for the former UST area, coordinated with the contractor, and provided field observations, mapping, soil sampling, and analytical services during excavation. He assisted the hospital with certain soil reuse and disposal activites and obtained NoFA status on behalf of the hospital.

Former Maskell Oil Facility, San Leandro, California. Project Manager responsible for the development and implementation of a Corrective Action Plan to remediate hydrocarbon-containing soil and groundwater at this bulk petroleum fuel and vehicle maintenance property. To expedite construction of a new post office, he assisted the San Leandro Development Services Agency, the U.S. Postal Service (USPS) with obtaining RWQCB and DTSC's approval of a remediation plan that focused on mass removal of



chemical contaminant, rather than one based on regulatory numerical cleanup goals. A risk-based closure based on the intended institutional land use of the site was achieved. When remediation was completed, the Agency and USPS received the qualified immunity provisions of the Polanco Act.

Summer Del Caribe Lead Remediation Project, Richmond California: Operations manager for the remedial action at this former lead recovery facility. Remedial services involved the excavation, stabilization, and offsite disposal of treated lead waste. Activities included decontamination of the existing structures, oversight of a comprehensive excavation and confirmation testing program, mechanical screening, stabilization, trucking, and site restoration involving a number of remedial subcontractors. My. Young was instrumental in arranging disposal of nonspec treated waste as well as tracking pay quantities for the subcontractors.

On Broadway Redevelopment Project, Redwood City, California. Managed the hazardous materials investigations and completed soil characterization activities to allow the offsite reuse of soil from this project at a nearby marina project. These services were provided to the developer with subsequent interaction with the City of Redwood City, which owns and operates the below-ground parking structure at the Site. A UST and impacted soil were removed during the construction activities. Investigation and soil reuse work was done in conformance with County and RWQCB requirements.

Big Break Marina, Oakley, California. Managed site assessment services for EB Parks to evaluate sediment, soil, and groundwater conditions at the site. Site assessment activities focused on conditions near former USTs and sediments previously dredged from the site, surface soil that may have been impacted by marine servicing and storage activities. Results of sediment analyses were compared to beneficial upland reuse criteria established by the RWQCB.

Shareholder Properties, Limited, Benicia, California. Construction manager for a \$2.5 million turnkey soil remediation project involving characterization, excavation, stabilization/fixation, and placement of over 11,000 tons of lead-contaminated soil into an onsite repository. His responsibilities included oversight of all operations during soil remediation, including dust control, odor abatement, site security, compliance with all permits and Work Plan requirements, and was the primary point of contact for all regulatory oversight during the remedial action. He prepared closure documentation and negotiated regulatory closure for the site from the DTSC.



SPECIALIZED TRAINING

- 40-hour Safety Training Course (29 CFR 1910.120)
- 8-hour Hazardous Materials Supervisory Course
- Bay Area Training Trust (BATT) dormant

PROFESSIONAL AFFILIATIONS

- California Groundwater Resources Association
- 1995 CELSOC Engineering Excellence Honor Award Parcel 2-4A Lead Remediation

APPENDIX I: ENVIRONMENTAL PROFESSIONAL STATEMENT

DEFINITION OF ENVIRONMENTAL PROFESSIONAL AND RELEVANT EXPERIENCE THERETO PURSUANT TO 40 CFR 312

(1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see \$312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in \$312.20(e) and (f).

(2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience.

(3) An environmental professional should remain current in his or her field through participation in continuing education or other activities.

(4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b).

(5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the Site. TRC personnel resume(s) are included in **Appendix H**.

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.

Signature of Environmental Professional:

Date:

Appendix F

Environmental Noise Assessment



Environmental Noise Assessment

Inez Subdivision

City of Brentwood, California

December 18, 2019

Project # 191103

Prepared for:

De Novo Planning Group

1020 Suncast Lane, Suite 106 El Dorado Hills, California 95762

Prepared by:

Saxelby Acoustics LLC

Lohe Sam

Luke Saxelby, INCE Bd. Cert. Principal Consultant Board Certified, Institute of Noise Control Engineering (INCE)



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Table of Contents

INTRODUCTION	1
ENVIRONMENTAL SETTING	
BACKGROUND INFORMATION ON NOISE	1
EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS	6
Existing Noise Receptors	
Existing General Ambient Noise Levels	6
EVALUATION OF TRANSPORTATION NOISE ON PROJECT SITE	7
Railroad Noise	7
CONSTRUCTION NOISE ENVIRONMENT	9
CONSTRUCTION VIBRATION ENVIRONMENT	
REGULATORY CONTEXT	
Federal	
STATE	
Local	
IMPACTS AND MITIGATION MEASURES	
	10
Thresholds of <mark>Signific</mark> ance	
THRESHOLDS OF SIGNIFICANCE PROJECT-SPECIF <mark>IC IMPACT</mark> S AND MITIGATION MEASURES	

Appendices

Appendix A: Acoustical Terminology Appendix B: Field Noise Measurement Data



List of Figures

Figure 1: Site Plan	2
Figure 2: Noise Measurement Sites and Receptor Locations	
Figure 3: Future Traffic and Railroad Noise Levels (L _{dn})	8
Figure 4: Traffic Noise Levels on Project Site with 8-foot Tall Barriers	18

List of Tables

Table 1: Typical Noise Levels	4
Table 2: Summary of Existing Background Noise Measurement Data	
Table 3: Construction Equipment Noise	9
Table 4: Vibration Levels for Various Construction Equipment	
Table 5: Effects of Vibration on People and Buildings	



INTRODUCTION

The Inez Subdivision project consists of the development of an 11-lot single-family subdivision on a vacant parcel. The project is located at the southwest corner of the intersection of Lone Tree Way and Gann Street.

Figure 1 shows the project site plan. Figure 2 shows an aerial photo of the project site.

ENVIRONMENTAL SETTING

BACKGROUND INFORMATION ON NOISE

Fundamentals of Acoustics

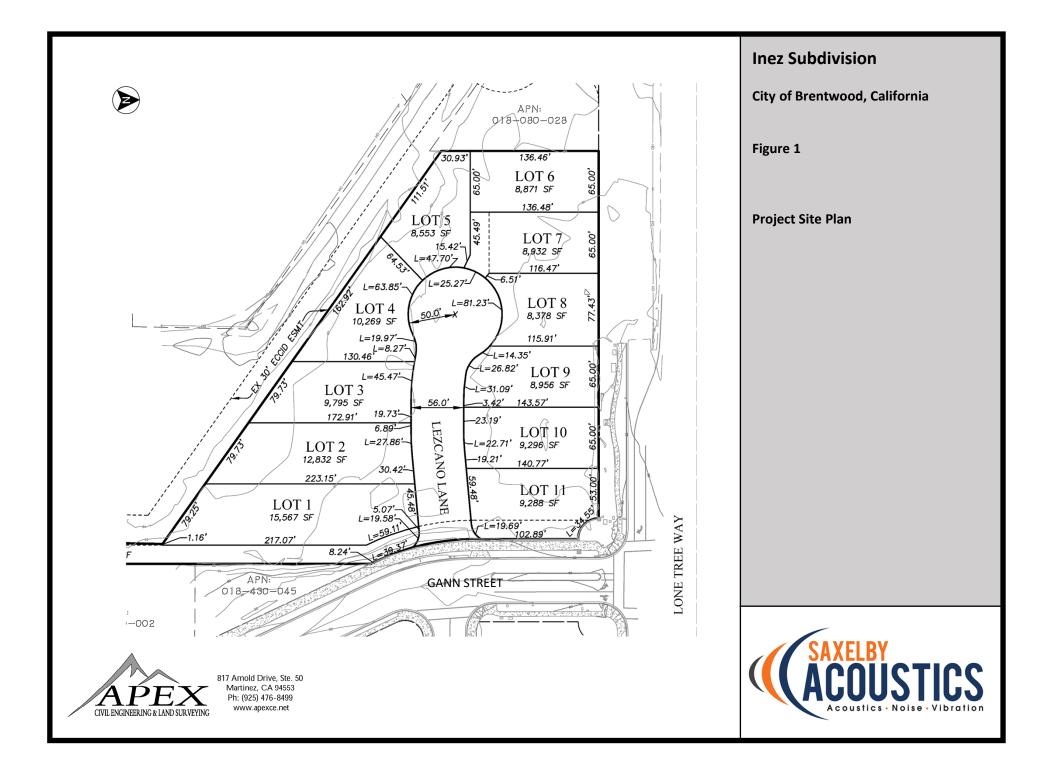
Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

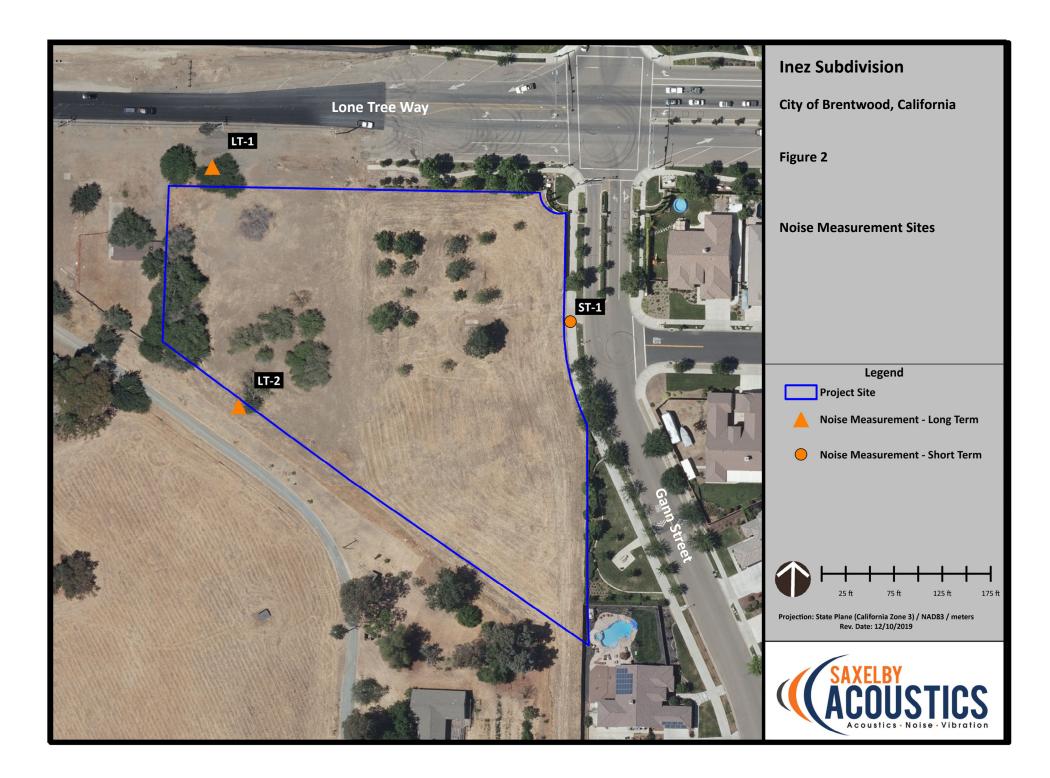
Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.

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The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the allencompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn} , and shows very good correlation with community response to noise.

The day/night average level (DNL or L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 1 lists several examples of the noise levels associated with common situations.**Appendix A** providesa summary of acoustical terms used in this report.

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	100	
Gas Lawn Mower at 1 m (3 ft.)	90	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	80	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	70	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	60	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	50	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

TABLE 1: TYPICAL NOISE LEVELS

Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.



Effects of Noise on People

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.



EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS

EXISTING NOISE RECEPTORS

Some land uses are considered more sensitive to noise than others. Land uses often associated with sensitive receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Sensitive noise receptors may also include threatened or endangered noise sensitive biological species, although many jurisdictions have not adopted noise standards for wildlife areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise.

Sensitivity is a function of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities involved. In the vicinity of the project site, sensitive land uses include existing single-family residential uses located north, south, east, and west of the project site.

EXISTING GENERAL AMBIENT NOISE LEVELS

The existing noise environment in the project area is primarily defined traffic on Lone Tree Way directly north of the project site.

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at two locations on the project site.

Noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted L_{max} , represents the highest noise level measured. The average value, denoted L_{eq} , represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L_{50} , represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) model 812 and 820 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a B&K Model 4230 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).



			Average Measured Hourly Noise Levels, dBA					
			(7:00	Daytime am - 10:00) pm)	(10:	Nighttim 00 pm – 7	
Site	Date	CNEL/L _{dn}	L_{eq}	L ₅₀	L _{max}	L _{eq}	L ₅₀	L _{max}
LT-1	12/09/19-12/10/19	70	67	65	84	62	52	78
LT-2	12/09/19-12/10/19	58	55	54	70	50	45	62
Source: Saxelby A	Source: Saxelby Acoustics – 2019							

TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

EVALUATION OF TRANSPORTATION NOISE ON PROJECT SITE

Saxelby Acoustics used the SoundPLAN noise model to calculate traffic noise levels at the proposed singlefamily uses due to traffic on Lone Tree Way. Traffic noise levels were predicted for existing conditions with a +1 dBA adjustment for future conditions. The results of this analysis are shown graphically on **Figure 3**.

RAILROAD NOISE

Union Pacific Railroad Line (UPRR) – Currently Inactive

The Union Pacific Railroad (UPRR) line is bisects the City of Brentwood from the northwest corner of the City to the southeast corner of the City. This portion of the railroad line has not been in use since sometime prior to the year 2000. The line is maintained by UPRR as a standby route with no planned use for freight movement. However, there is the potential that future use of the line could be used for commuter passenger service or future freight service.

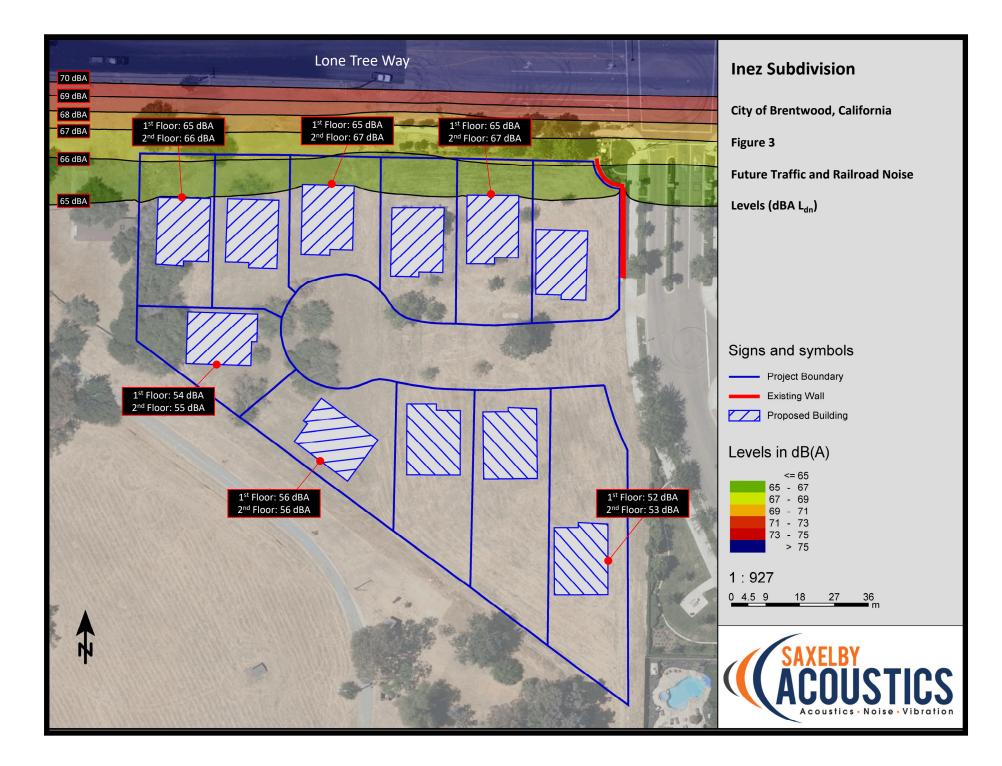
Rail operations associated with light rail passenger service is generally quiet in comparison to freight train operations. Although light rail operations may include 50 or more operations per day, the 60 dB CNEL contour will generally not extend more than 100 feet from the railroad track centerline.

To conservatively estimate potential noise impacts associated with railroad line activities, it was assumed that up to 10 freight train operations may occur during a 24-hour period. Assuming that each train generated a sound exposure level (SEL) of 100 dB at a distance of 100 feet from the railroad centerline, the Ldn noise level can be calculated using the following equation.

 $Ldn = SEL + 10 \log N_{eq} - 49.4 dB$, where:

SEL is the typical single event sound exposure level of an individual train event (100 dB at a distance of 100 feet), N_{eq} is the sum of the daytime (7 a.m. to 10 p.m.) train events, plus 10 times the number of nighttime (10 p.m. to 7 a.m.) train events (a total of 44), and 49.4 is ten times the logarithm of the number of seconds per day. Assuming an even distribution of trains between daytime, evening and nighttime hours, the Ldn would be 67 dB at 100 feet.

Saxelby Acoustics used the SoundPLAN noise model to calculate potential railroad noise levels across the project site. The results of this analysis are shown graphically on **Figure 3**





CONSTRUCTION NOISE ENVIRONMENT

During the construction of the proposed project, including roads, water and sewer lines, and related infrastructure, noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown in **Table 3**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

Type of Equipment	Maximum Level, dBA at 50 feet		
Auger Drill Rig	84		
Backhoe	78		
Compactor	83		
Compre <mark>ssor (air)</mark>	78		
Concrete Saw	90		
Dozer	82		
Dump Truck	76		
Excavator	81		
Generator	81		
Jackhammer	89		
P <mark>neumatic</mark> Tools	85		

TABLE 3: CONSTRUCTION EQUIPMENT NOISE

Source: *Roadway Construction Noise Model User's Guide*. Federal Highway Administration. FHWA-HEP-05-054. January 2006.



CONSTRUCTION VIBRATION ENVIRONMENT

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and parking lot construction occur. **Table 4** shows the typical vibration levels produced by construction equipment.

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)	
Large Bulldozer	0.089	0.031	0.011	
Loaded Trucks	0.076	0.027	0.010	
Small Bulldozer	0.003	0.001	0.000	
Auger/drill Rigs	0.089	0.031	0.011	
Jackhammer	0.035	0.012	0.004	
Vibratory Ham <mark>mer</mark>	0.070	0.025	0.009	
Vibratory Compact <mark>or/roller</mark>	0.210 (Less than 0.20 at 26 feet)	0.074	0.026	

TABLE 4: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

REGULATORY CONTEXT

FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project.

STATE

There are no state regulations related to noise that apply to the Proposed Project.

LOCAL

City of Brentwood General Plan

<u>Policies</u>

Policy N 1-1: Ensure the noise compatibility of existing and future development when making land use planning decisions.

Inez Subdivision – City of Brentwood, CA Job #191103 December 18, 2019



- **Policy N 1-2:** Require development and infrastructure projects to be consistent with the Land Use Compatibility for Community Noise Environments standards indicated in Table N-1 to ensure acceptable noise levels for existing and future development.
- **Policy N 1-3:** Require new development to mitigate excessive noise through best practices, including building location and orientation, building design features, placement of noise-generating equipment away from sensitive receptors, shielding of noise-generating equipment, placement of noise-tolerant features between noise sources and sensitive receptors, and use of noise-minimizing materials such as rubberized asphalt.
- **Policy N 1-7:** For projects that are required by the California Environmental Quality Act (CEQA) to analyze noise impacts, the following criteria shall be used to determine the significance of those impacts:

Stationary and Non-Transportation Noise Sources

• A significant impact will occur if the project results in an exceedance of the noise level standards contained in this element, or the project will result in an increase in ambient noise levels by more than 3 dB, whichever is greater.

Transportation Noise Sources

- Where existing traffic noise levels are less than 60 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +5 dB L_{dn} increase in roadway noise levels will be considered significant; and
- Where existing traffic noise levels range between 60 and 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +3 dB L_{dn} increase in roadway noise levels will be considered significant; and
- Where existing traffic noise levels are greater than 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB L_{dn} increase in roadway noise levels will be considered significant.
- **Policy N 1-14:** Ensure that new development does not result in indoor noise levels exceeding 45 dBA Ldn for residential uses.
- Policy N 1-15: Require construction activities to comply with standard best practices (see Action N 1e).
- **Policy N 2-1:** Recognizing that existing and future traffic noise along the State Route 4 corridor, major arterials within Brentwood, and noise from the UPRR are areas of potential land use conflict for existing and future development, reasonable use of this land will be allowed with an exterior noise exposure level not exceeding 65 dB Ldn. New development that includes noise-sensitive uses (i.e., residential) along the State Route 4 corridor, major arterials, and the UPRR should incorporate appropriate noise attenuation measures in order to maintain interior noise levels of 45 dB Ldn or less. Application of this noise



standard is intended to provide for reasonable exterior noise levels while discouraging the use of excessively high and/or unattractive sound walls.

<u>Action N 1e:</u> During the environmental review process, determine if proposed construction will constitute a significant impact on nearby residents and, if necessary, require mitigation measures in addition to the standard best practice controls. Suggested best practices for control of construction noise include:

- 1. Construction period shall be less than 12 months.
- 2. Noise-generating construction activities, including truck traffic coming to and from the construction site for any purpose, shall be limited to between the hours of 7:00 am and 6:00 pm on weekdays, and between 8:00 am and 5:00 pm on Saturdays. No construction shall occur on Sundays or City holidays.
- 3. All equipment driven by internal combustion engines shall be equipped with mufflers, which are in good condition and appropriate for the equipment.
- 4. The construction contractor shall utilize "quiet" models of air compressors and other stationary noise sources where technology exists.
- 5. At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from sensitive receptors and placed so that emitted noise is directed away from residences.
- 6. Unnecessary idling of internal combustion engines shall be prohibited.
- 7. Construction staging areas shall be established at locations that will create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.
- 8. The required construction-related noise mitigation plan shall also specify that haul truck deliveries are subject to the same hours specified for construction equipment.
- 9. Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.
- 10. The construction contractor shall designate a "noise disturbance coordinator" who will be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.



TABLE N-1 LAND USE	Compatibilit	y for Com	JUNITY NOIS	e Environme	NT	
Land Use Category	Exterior Noise Exposure (Ldn)					
	55	60	65	70	75	80
Single-Family Residential						
Multi-Family Residential, Hotels, and Motels						
Outdoor Sports and Recreation, Neighborhood Parks and Playgrounds						
Schools, Libraries, Museum <mark>s, Hosp</mark> itals, Personal Care, Meeting <mark>Halls, C</mark> hurches						
Office Buildings, Business						
Commercial, and Pr <mark>ofession</mark> al						
Industrial						

NORMALLY ACCEPTABLE

Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special insulation requirements

CONDITIONALLY ACCEPTABLE

Specified land use may be permitted only after detailed analysis of the noise reduction requirements and needed noise insulation features included in the design

UNACCEPTABLE

New construction or development should generally not be undertaken because mitigation is usually not feasible to comply with noise element policies

Based upon Table N-1 of the City of Brentwood General Plan, residential uses are considered normally acceptable in ambient noise environments up to 60 dBA L_{dn} , and conditionally acceptable in noise environments up to 75 dBA L_{dn} . However, policy N-1 limits exterior noise levels to 65 dBA L_{dn} for new residential uses adjacent to State Route 4 corridor, major arterials within Brentwood, and noise from the UPRR. The City of Brentwood also establishes an interior noise level criterion of 45 dBA L_{dn} for residential uses.

Criteria for Acceptable Vibration

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 5**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

Table 5 indicates that the threshold for architectural damage to structures is 0.20 in/sec p.p.v. A thresholdof 0.2 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

Peak Particl	e Velocity	Human Deaction	Effect on Buildings		
mm/second in/second		Human Reaction	Effect on Buildings		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type		
2.0	2.00.08Vibrations readily perceptible2.50.10Level at which continuous vibrations begin to annoy people		Recommended upper level of the vibration to which ruins and ancient monuments should be subjected		
2.5			Virtually no risk of "architectural" damage to normal buildings		
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage		
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage		

TABLE 5: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

Source: *Transportation Related Earthborne Vibrations*. Caltrans. TAV-02-01-R9601. February 20, 2002.

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IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-f]).

Would the project:

- a. Generate 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. Generate 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?

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

IMPACT 1:WOULD THE PROJECT GENERATE 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?

Traffic Noise Increases

The proposed project is consistent with the City's General Plan and no traffic study was required for the project. Therefore, no substantial increases in traffic noise are predicted.

Operational Noise Increases

The proposed project would include typical residential noise which would be compatible with the adjacent existing residential uses.

Traffic and Railroad Noise at New Sensitive Receptors – Exterior Areas

As shown on **Figure 3**, the project site is predicted to be exposed to exterior noise levels up to approximately 67 dBA L_{dn}. This would exceed the City of Brentwood 65 dB L_{dn} Community Noise Exposure standards for new developments in the vicinity of major arterial roadways. Therefore, exterior noise control measures would be required to ensure that future residents are not exposed to exterior noise levels exceeding City standards. Specifically, 8-foot tall sound walls were analyzed at the location shown on **Figure 4**. Based upon the noise predictions shown on **Figure 4**, exterior noise levels would be reduced to 65 dBA L_{dn}, or less with use of these barriers.

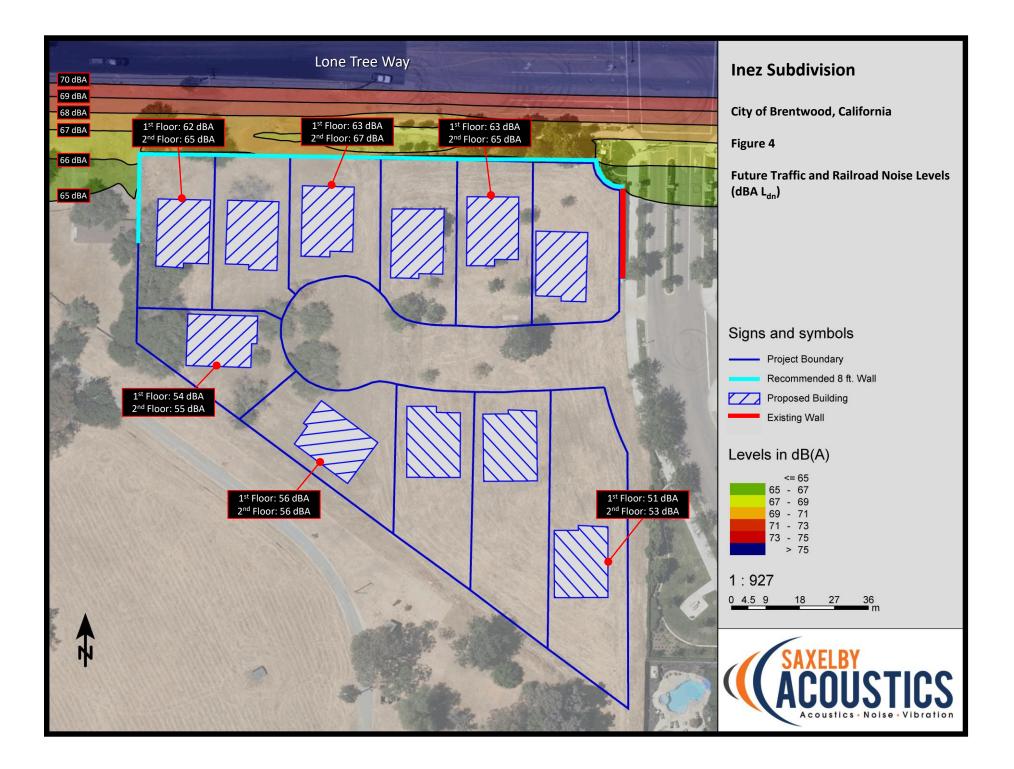
Traffic and Railroad Noise at New Sensitive Receptors – Interior Areas

Based upon **Figure 4**, the proposed project would be exposed to exterior noise levels of up to 62 dBA L_{dn} at the ground floor building facades closest to Lone Tree Way. Second floor locations would not receive substantial shielding from the 8-foot tall sound wall and would be expected to be exposed to exterior noise levels of up to 67 dBA L_{dn} .

Modern building construction typically yields an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 70 dBA L_{dn} , or less, no additional interior noise control measures are typically required. For this project, exterior noise levels are predicted to be up to 67 dBA L_{dn} , resulting in an interior noise level of 42 dBA L_{dn} based on typical building construction. This would meet the City's 45 dBA L_{dn} interior noise level standard.

Impacts resulting from exterior noise levels exceeding the threshold of significance due to interior traffic noise would be considered *potentially significant*.

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Construction Noise

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. As indicated in **Table 5**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA L_{max} at a distance of 50 feet. Most of the building construction would occur at distances of 50 feet or greater from the nearest residences. Construction noise associated with streets would be similar to noise that would be associated with public works projects, such as a roadway widening or paving projects.

Construction activities would be temporary in nature and are anticipated to occur during normal daytime working hours.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration, and would likely occur primarily during daytime hours.

Construction activities are conditionally exempt from the Noise Ordinance during certain hours. Construction activities are exempt from the noise standard from 6 AM to 8 PM Monday through Friday, and from 7 AM to 8 PM on Saturdays and Sundays.

Although construction activities are temporary in nature and would likely occur during normal daytime working hours, construction-related noise could result in sleep interference at existing noise-sensitive land uses in the vicinity of the construction if construction activities were to occur outside the normal daytime hours. Therefore, impacts resulting from noise levels temporarily exceeding the threshold of significance due to construction would be considered *potentially significant*.

Mitigation Measure(s)

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

1(a) Prior to approval of project improvement plans, the improvement plans for the proposed project shall show that the first-row lots shall be shielded from the Lone Tree Way through the use of eight-foot tall masonry sound walls per the approval of the City Engineer. The approximate locations of these barriers are shown on **Figure 4**. Other types of barrier may be employed but shall be reviewed by an acoustical engineer prior to being constructed.

1(b) Construction activities shall be limited to the hours set forth below:

Monday-Friday 7:00 AM to 6:00 PM Saturday 8:00 AM to 5:00 PM

Construction shall be prohibited on Sundays and City holidays. These criteria shall be included in the grading plan submitted by the applicant/developer for review and approval of the Community Development Director prior to issuance of grading permits. Exceptions to allow expanded construction activities shall be reviewed on a case-by-case basis as determined by the Chief Building Official and/or City Engineer.

Inez Subdivision – City of Brentwood, CA Job #191103 December 18, 2019

- 1(c) The project contractor shall ensure that the following construction noise BMPs are met on-site during all phases of construction:
 - All equipment driven by internal combustion engines shall be equipped with mufflers, airinlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc welders, air compressors) shall be equipped with shrouds and noise- control features that are readily available for that type of equipment.
 - All mobile or fixed noise-producing equipment used on the project site that are regulated for noise output by a federal, state, or local agency shall comply with such regulations while in the course of project activity.
 - The construction contractor shall utilize "quiet" models of air compressors and other stationary noise sources where technology exists.
 - At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from sensitive receptors and placed so that emitted noise is directed away from residences.
 - Unnecessary idling of internal combustion engines shall be prohibited.
 - Construction staging areas shall be established at locations that would create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.
 - Construction site and access road speed limits shall be established and enforced during the construction period.
 - The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.
 - Project-related public address or music systems shall not be audible at any adjacent receptor.
 - Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.
 - The construction contractor shall designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.

Construction noise BMPs shall be included in the grading plan submitted by the developer for review and approval by the Community Development Director prior to grading permit issuance.

IMPACT 2: WOULD THE PROJECT GENERATE EXCESSIVE GROUNDBORNE VIBRATION OR GROUNDBORNE NOISE LEVELS?

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

The **Table 4** data indicate that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a **less-than-significant** impact and no mitigation is required.

IMPACT 3: 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?

There are no airports in the project vicinity. Therefore, this impact is not applicable to the proposed project.

Inez Subdivision – City of Brentwood, CA Job #191103 December 18, 2019

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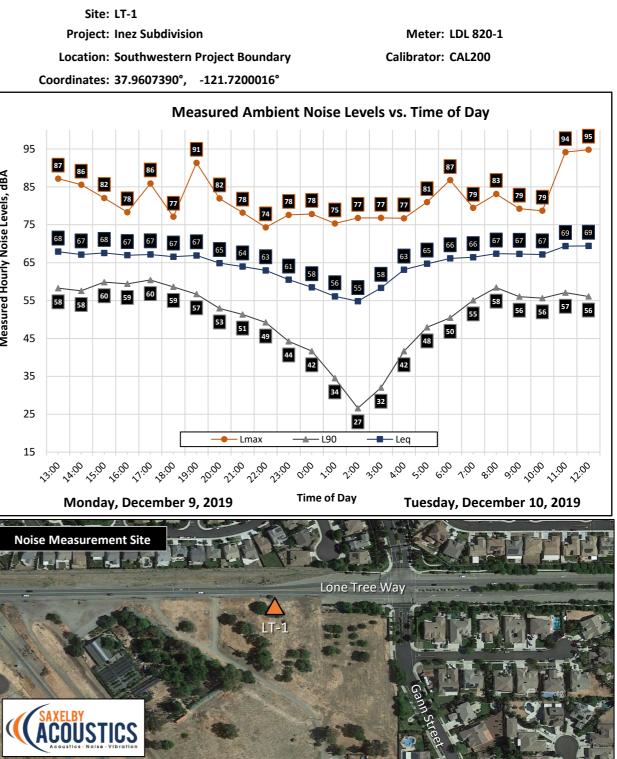
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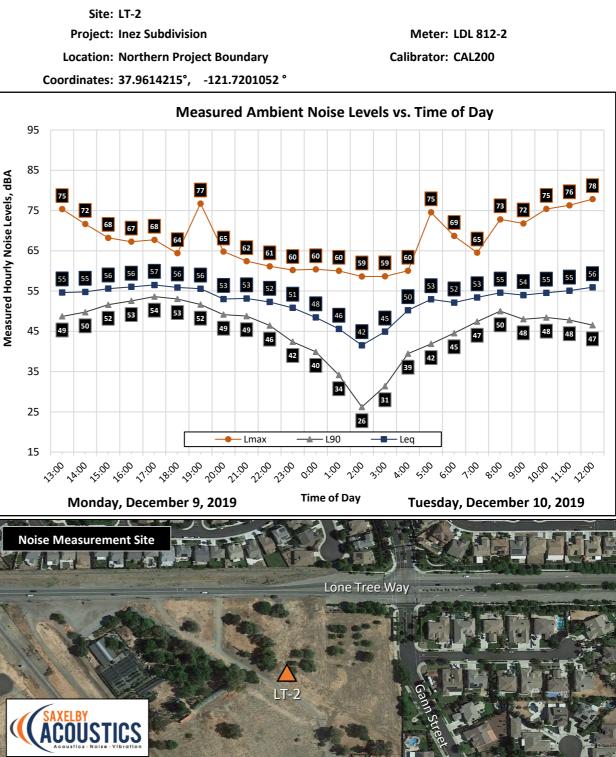
Appendix A: Acoustical Terminology

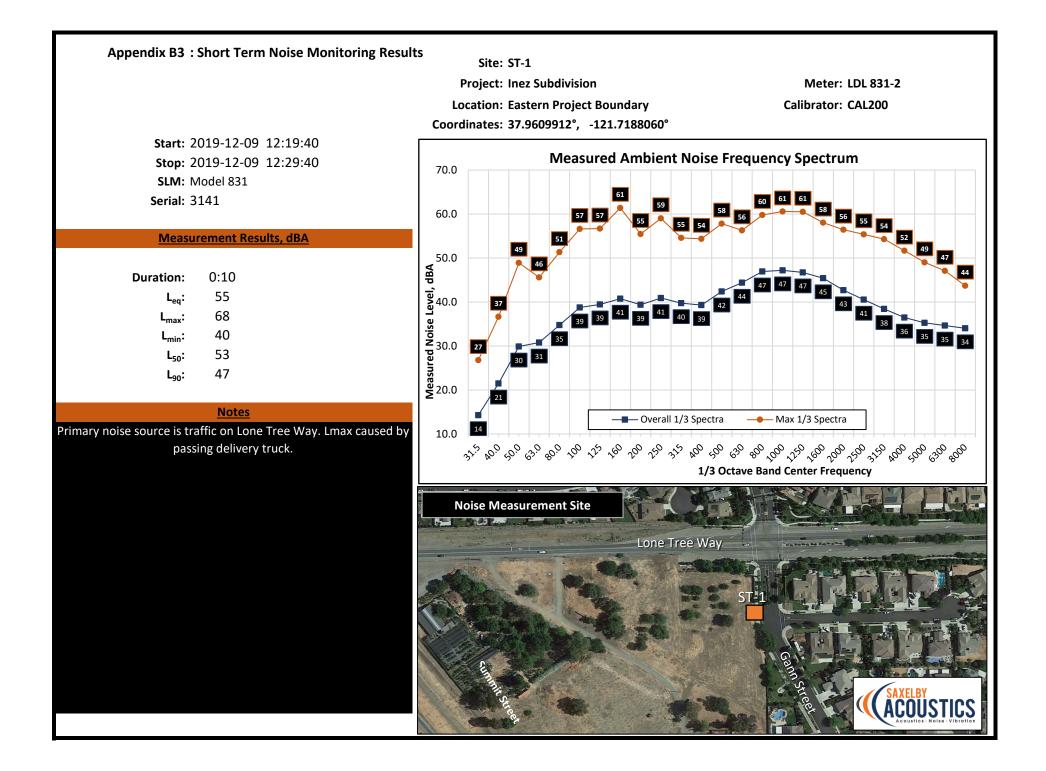
Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
ASTC	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
DNL	See definition of Ldn.
IIC	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
Ldn	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
Lmax	The highest root-mean-square (RMS) sound level measured over a given period of time.
L(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
NIC	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
NNIC	Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation.
Noise	Unwanted sound.
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
RT60	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a <mark>rati</mark> ng, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
SPC	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.

Measured Level, dBA					
Date	Time	L _{eq}	L _{max}	L ₅₀	L ₉₀
Monday, December 9, 2019	13:00	68	87	66	58
Monday, December 9, 2019	14:00	67	86	66	58
Monday, December 9, 2019	15:00	68	82	66	60
Monday, December 9, 2019	16:00	67	78	66	59
Monday, December 9, 2019	17:00	67	86	66	60
Monday, December 9, 2019	18:00	67	77	66	59
Monday, December 9, 2019	19:00	67	91	65	57
Monday, December 9, 2019	20:00	65	82	63	53
Monday, December 9, 2019	21:00	64	78	62	51
Monday, December 9, 2019	22:00	63	74	60	49
Monday, December 9, 2019	23:00	61	78	54	44
Tuesday, December 10, 2019	0:00	58	78	49	42
Tuesday, December 10, 2019	1:00	56	75	43	34
Tuesday, December 10, 2019	2:00	55	77	34	27
Tuesday, December 10, 2019	3:00	58	77	44	32
Tuesday, December 10, 2019	4:00	63	77	58	42
Tuesday, December 10, 2019	5:00	65	81	62	48
Tuesday, December 10, 2019	6:00	66	87	63	50
Tuesday, December 10, 2019	7:00	66	79	65	55
Tuesday, December 10, 2019	8:00	67	83	66	58
Tuesday, December 10, 2019	9:00	67	79	66	56
Tuesday, December 10, 2019	10:00	67	79	66	56
Tuesday, December 10, 2019	11:00	69	94	66	57
Tuesday, December 10, 2019	12:00	69	95	66	56
	Statistics	Leq	Lmax	L50	L90
D	ay Average	67	84	65	57
Nig	ght Average	62	78	52	41
	Day Low	64	77	62	51
	Day High	69	95	66	60
	Night Low	55	74	34	27
	Night High	66	87	63	50
	Ldn	70	Day	y %	85
	CNEL	70		nt %	15



Appendix B2: Continuous Noise Monitoring Results						
Date	Time	Measured Level, dBA			dBA	
Dute		L _{eq}	L _{max}	L ₅₀	L ₉₀	
Monday, December 9, 2019	13:00	55	75	53	49	
Monday, December 9, 2019	14:00	55	72	54	50	ſ
Monday, December 9, 2019	15:00	56	68	55	52	
Monday, December 9, 2019	16:00	56	67	56	53	
Monday, December 9, 2019	17:00	57	68	56	54	
Monday, December 9, 2019	18:00	56	64	56	53	
Monday, December 9, 2019	19:00	56	77	55	52	
Monday, December 9, 2019	20:00	53	65	52	49	
Monday, December 9, 2019	21:00	53	62	53	49	
Monday, December 9, 2019	22:00	52	61	51	46	
Monday, December 9, 2019	23:00	51	60	49	42	
Tuesday, December 10, 2019	0:00	48	60	46	40	
Tuesday, December 10, 2019	1:00	46	60	42	34	
Tuesday, December 10, 2019	2:00	42	59	32	26	
Tuesday, December 10, 2019	3:00	45	59	39	31	
Tuesday, December 10, 2019	4:00	50	60	48	39	
Tuesday, December 10, 2019	5:00	53	75	50	42	
Tuesday, December 10, 2019	6:00	52	69	51	45	
Tuesday, December 10, 2019	7:00	53	65	53	47	
Tuesday, December 10, 2019	8:00	55	73	54	50	
Tuesday, December 10, 2019	9:00	54	72	53	48	
Tuesday, December 10, 2019	10:00	55	75	53	48	
Tuesday, December 10, 2019	11:00	55	76	52	48	
Tuesday, December 10, 2019	12:00	56	78	52	47	
	Statistics	Leq	Lmax	L50	L90	
	Day Average	55	70	54	50	
Ni	ght Average	50	62	45	38	
	Day Low	53	62	52	47	
	Day High	57	78	56	54	
	Night Low	42	59	32	26	10
	Night High	53	75	51	46	A CAN
	Ldn	58	Da	y %	84	
	CNEL	58	Nig	nt %	16	
						-
						100





Appendix G

Geotechnical Investigation



Geotechnical Investigation

Lone Tree Way Residential Development Brentwood, California

Report No. 338571 has been prepared for:

CYRUS LAND INVESTMENS, LLC

4021 Port Chicago Highway, Concord, California 94520

May 28, 2019

Alberto Cortez, EIT Senior Staff Engineer

Mustafa B. Dogan, P.E., G.E. Senior Geotechnical Engineer



Scott M. Leck, P.E., G.E. Principal Geotechnical Engineer Quality Assurance Reviewer

TABLE OF CONTENTS

1.0	INTRO	DUCTION	.1
	1.1	Project Description	
	1.2	Scope of Services	.1
2.0	SITE CO	ONDITIONS	
	2.1	Site Reconnaissance	.2
	2.2	Exploration Program	.2
	2.3	Subsurface Conditions	
	2.4	Ground Water	
3.0	GEOLO	GIC HAZARDS	.2
	3.1	Fault Rupture	.3
	3.2	Maximum Estimated Ground Shaking	
	3.3	Future Earthquake Probabilities	
	3.4	Liquefaction	
	3.5	Dry Seismic Settlement	
	3.6	Lateral Spreading	
	3.7	Landsliding	
4.0	CORRC	SION EVALUATION	
		Table 1. Results of Corrosivity Testing	
		Table 2. Relationship Between Soil Resistivity and Soil Corrosivity	
		Table 3. Relationship Between Sulfate Concentration and Sulfate Exposure	
5.0	CONCL	USIONS AND RECOMMENDATIONS	
	5.1	Primary Geotechnical Concerns	.6
		5.1.1 Strong Seismic Shaking	
		5.1.2 Corrosion Potential of Near-Surface Soils	
		5.1.3 Moderately to Highly Expansive Clays	.6
	5.2	Plans, Specifications, and Construction Review	
6.0	EARTH	WORK	
	6.1	Clearing and Site Preparation	.7
	6.2	Removal of Undocumented Fill	
	6.3	Cut/Fill Transitions	.7
	6.4	Abandoned Utilities	.7
	6.5	Subgrade Preparation	.8
	6.6	Material for Fill	
	6.7	Compaction	.8
	6.8	Wet Soils and Wet Weather Conditions	
	6.9	Trench Backfill	.9
	6.10	Temporary Slopes and Trench Excavations	10
	6.11	Surface Drainage	10
	6.12	Landscaping Considerations	
	6.13	Construction Observation	
7.0	FOUND	DATIONS	10
	7.1	2016 CBC Site Class and Site Seismic Coefficients	11
		Table 4. 2016 CBC Site Class and Site Seismic Coefficients (done)	11
	7.2	Post-Tensioned Mat Slab Recommendations	
		Table 5. Post-Tension Mat Design Criteria	
	7.3	Moisture Protection Considerations for Slabs-on-Grade	
	7.4	Footings	
	7.5	Footing Settlement	



	7.6	Lateral Loads	14
	7.7	Slabs-On-Grade	14
8.0	SOUND	WALLS AND RETAINING WALLS	14
	8.1	Lateral Earth Pressures	14
	8.2	Seismic Lateral Earth Pressures	
	8.3	Drainage	15
	8.4	Backfill	15
	8.5	Foundation	15
9.0	PAVEM	ENTS	
	9.1	Asphalt Concrete	16
		Table 6. Recommended Asphalt Concrete Pavement Design Alternatives	
	9.2	Asphalt Concrete, Aggregate Base and Subgrade	16
	9.3	Flatwork and Sidewalks	17
10.0	LIMITA	TIONS	
11.0		ENCES	
-			

FIGURE 1 — VICINITY MAP

FIGURE 2 — SITE PLAN

APPENDIX A — FIELD INVESTIGATION APPENDIX B — LABORATORY PROGRAM



GEOTECHNICAL INVESTIGATION LONE TREE WAY RESIDENTIAL DEVELOPMENT BRENTWOOD, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed Lone Tree Way Residential Development to be constructed at Lone Tree Way – APN 018-080-025 in Brentwood, California. The site location is shown on the Vicinity Map, Figure 1. The purpose of our investigation was to evaluate the geologic and subsurface conditions and to provide geotechnical recommendations for design of the proposed project.

We received and reviewed the following:

- A report titled, "Geotechnical Investigation for Ipsen Restaurant / Retail Center, 7281 Lone Tree Way, Brentwood, California," prepared by Romig Engineers, Inc. dated October, 2005.
- A report titled, "Skipolini Property, Lone Tree Way, Brentwood, California, Geotechnical Report Update," prepared by Engeo dated May 19, 2014.
- An untitled and undated drawing showing the proposed lot layout.

1.1 Project Description

We understand the project will consist of developing an approximately 1-acre open land parcel with improvements that will include 5 single-family residences with associated streets, and underground utilities. Additional improvements will include pavements, underground utilities, and landscaping. The layout of the existing site is shown on the Site Plan, Figure 2.

Structural loads have not been provided to us; therefore we assumed that structural loads will be representative for this type of construction.

1.2 Scope of Services

Our scope of services was presented in our agreement with you dated April 11, 2019. To accomplish this work, we provided the following services:

- Exploration of subsurface conditions by drilling two borings in the area of the proposed development and retrieving soil samples for observation and laboratory testing.
- Evaluation of the physical and engineering properties of the subsurface soils by visually classifying the samples and performing various laboratory tests on selected samples.
- Engineering analysis to evaluate building foundations, site earthwork, slabs-on-grade, retaining walls, and pavements.
- Preparation of this report to summarize our findings and to present our conclusions and recommendations.



2.0 SITE CONDITIONS

2.1 Site Reconnaissance

Our Senior Staff Engineer performed a reconnaissance of the site on May 3, 2019. The site consisted of a vacant parcel occupied by trees and shrubs and appeared relatively flat. The site is bounded by Lone Tree Way to the north, Double K Road and a residence to the south, and a vacant lot to the west and east. Additionally, the field exploration locations were marked and notification was provided to Underground Service Alert (USA) prior to beginning fieldwork to identify public and/or private underground utilities. We also contracted a private utility locator to reduce the risk of damaging unidentified underground utilities.

2.2 Exploration Program

Subsurface exploration was performed on May 10, 2019 using conventional, truck-mounted hollow-stem auger drilling equipment to investigate, sample, and log subsurface soils. Two hollow-stem auger exploratory borings were drilled to a depth of approximately 30 feet.

Our borings were permitted and backfilled in accordance with Contra Costa County Environmental Health Services Department guidelines. The approximate locations of the borings are shown on the Site Plan, Figure 2. The logs of the borings and details regarding our field investigation are included in Appendix A; laboratory tests are discussed in Appendix B.

2.3 Subsurface Conditions

Boring EB-1 encountered very stiff to hard lean clay to depth of 30 feet, the maximum depth explored. Boring EB-2 encountered interbedded layers consisting of stiff to hard lean clay, hard lean clay with sand, and hard sandy lean clay to a depth of approximately 19 feet, underlain by dense clayey sand and dense poorly graded sand with clay to a depth of 30 feet.

Two Plasticity Index (PI) tests were performed on clayey samples from our borings EB-1 and EB-2 at a depth of approximately 2 feet. The tests resulted in PIs of 32 and 30 for borings EB-1 and EB-2, respectively, indicating high plasticity and expansion potential of the near surface soils.

2.4 Ground Water

Free ground water was not encountered in any of our borings to a drilled to a maximum depth of 30 feet below the ground surface. Based on the depth to historically high ground water map prepared by the California Geological Survey for the Brentwood Quadrangle (CGS, 2018), the depth to historically high ground water levels in the site vicinity is on the order of approximately 30 feet below the existing ground surface (bgs). Based on the above information, we judged a ground water depth of 30 feet to be appropriate for design purposes. Our borings were backfilled immediately after drilling. Fluctuations in the level of the ground water may occur due to variations in rainfall, underground drainage patterns, and other factors not evident at the time measurements were made.

3.0 GEOLOGIC HAZARDS

A brief qualitative evaluation of geologic hazards was made during this investigation. Our comments concerning these hazards are presented below.



3.1 Fault Rupture

The San Francisco Bay Area is one of the most seismically active regions in the United States. The significant earthquakes that occur in the Bay Area are generally associated with crustal movement along well-defined active fault zones of the San Andreas Fault system, which regionally trend in a northwesterly direction.

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone (known formerly as a Special Studies Zone). The nearest known active fault is the Greenville Fault (Late Quaternary), which is located approximately $8\frac{3}{4}$ miles southwest of the project site. The potentially active Davis Fault and Midland Fault are located about $2\frac{3}{4}$ west and $5\frac{1}{2}$ miles east of the site, respectively. Fault rupture through the site, therefore, is not anticipated.

3.2 Maximum Estimated Ground Shaking

Based on Equation 11.8-1 of ASCE 7-10, we judge a maximum considered earthquake geometric mean peak ground acceleration of 0.50g to be appropriate for geotechnical analyses for the project site.

3.3 Future Earthquake Probabilities

Although research on earthquake prediction has greatly increased in recent years, seismologists cannot predict when or where an earthquake will occur. The U.S. Geological Survey's Working Group on California Earthquake Probabilities (WGCEP, 2014) estimates there is a 72 percent chance of at least one magnitude 6.7 earthquake occurring in the San Francisco Bay region between 2014 and 2044. This result is an important outcome of WGCEP's work because any major earthquake can cause damage throughout the region. The 1989 Loma Prieta earthquake demonstrated this potential by causing severe damage in Oakland and San Francisco, more than 50 miles from the fault epicenter.

Although earthquakes can cause damage at a considerable distance, shaking will be very intense near the fault rupture. Therefore, earthquakes located in urbanized areas of the region have the potential to cause much more damage than the 1989 Loma Prieta earthquake.

3.4 Liquefaction

The site is not located within an area zoned by the State of California as having potential for seismically induced liquefaction hazards (CGS 2018). During cyclic ground shaking, such as earthquakes, cyclically-induced stresses may cause increased pore water pressures within the soil matrix, which results in liquefaction. Liquefied soil may lose shear strength that may lead to large shear deformations and/or flow failure (Youd et al., 2001). Liquefied soil can also settle as pore pressures dissipate following an earthquake. Limited field data is available on this subject; however, settlement on the order of 2 to 3 percent of the thickness of the liquefied zone has been measured in some cases.

Soils most susceptible to liquefaction are loose to moderately dense, saturated, non-cohesive soils with poor drainage, such as sands and silts with interbedded or capping layers of relatively low permeability soil.

Based on the exploratory borings, the site is underlain by stiff to hard clays and dense sands. Additionally, ground water was not encountered in the explorations and is estimated to be at a depth of 30 feet below the existing ground surface. Therefore, we judge the potential for liquefaction induced damage to the proposed residences to be low.



3.5 Dry Seismic Settlement

If near-surface soils vary in composition both vertically and laterally, strong earthquake shaking can cause non-uniform densification of loose to medium dense cohesionless soil strata. This results in movement of the near-surface soils.

We performed dry sand settlement calculations following Tokimatsu and Seed method (1987). Our calculations indicated that the medium dense clayey sand and silty sand layers encountered during the 2005 explorations may densify and settle on the order of less than $\frac{1}{4}$ -inch.

3.6 Lateral Spreading

Lateral spreading typically occurs as a form of horizontal displacement of relatively flat-lying alluvial material toward an open or "free" face such as an open body of water, channel, or excavation. In soils this movement is generally due to failure along a weak plane, and may often be associated with liquefaction. As cracks develop within the weakened material, blocks of soil displace laterally towards the open face. Cracking and lateral movement may gradually propagate away from the face as blocks continue to break free. There are no creeks or open bodies of water within an appropriate distance from the site for lateral spreading to occur. Additionally, because of the low probability for liquefaction, the probability of lateral spreading occurring at the site during a seismic event is low.

3.7 Landsliding

The site is not located within an area zoned by the State of California as having potential for seismically induced landslide hazard (CGS 2018). For this reason, it is our opinion that the probability of landsliding occurring at the site is low.

4.0 CORROSION EVALUATION

To evaluate the corrosion potential of the subsurface soils at the site, we submitted two samples collected during our subsurface investigation to an analytical laboratory for pH, resistivity, soluble sulfate and chloride content testing. The results of these tests are summarized in Table 1 below.

5	Sample	Depth (feet)	Chloride (mg/kg)	Sulfate (mg/kg)	рН	Resistivity (ohm- cm)	Estimated Corrosivity Based on Resistivity	Estimated Corrosivity Based on Sulfates
E	B-1, 2A	3.5	6	112	7.2	1,240	Severely	Negligible
E	B-2,1B	2.0	7	91	6.8	1,796	Severely	Negligible

Table 1.	Results of	Corrosivity Testing
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Notes: 1. mg/kg = milligrams per kilogram.

Many factors can affect the corrosion potential of soil including soil moisture content, resistivity, permeability and pH, as well as chloride and sulfate concentration. In general, soil resistivity, which is a measure of how easily electrical current flows through soils, is the most influential factor. Based on classification developed by William J. Ellis (1978), the approximate relationship between soil corrosiveness was developed as shown in Table 2 below.



Soil Resistivity (ohm-cm)	Classification of Soil Corrosiveness
0 to 900	Very Severely Corrosive
900 to 2,300	Severely Corrosive
2,300 to 5,000	Moderately Corrosive
5,000 to 10,000	Mildly Corrosive
10,000 to >100,000	Very Mildly Corrosive

Table 2. Relationship Between Soil Resistivity and Soil Corrosivity

Chloride and sulfate ion concentrations and pH appear to play secondary roles in affecting corrosion potential. High chloride levels tend to reduce soil resistivity and break down otherwise protective surface deposits, which can result in corrosion of buried metallic improvements or reinforced concrete structures. Sulfate ions in the soil can lower the soil resistivity and can be highly aggressive to Portland cement concrete (PCC) by combining chemically with certain constituents of the concrete, principally tricalcium aluminate. This reaction is accompanied by expansion and eventual disruption of the concrete matrix. Soils containing high sulfate content could also cause corrosion of the reinforcing steel in concrete. Table 4.2.1 of the American Concrete Institute (ACI, 2008) provides requirements for concrete exposed to sulfate-containing solutions as summarized in Table 3.

Table 3.	Relationship Betv	veen Sulfate Concent	tration and Sulfate Exposure
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Water-Soluble Sulfate (SO4) in soil, ppm	Sulfate Exposure
0 to 1,000	Negligible
1,000 to 2,000	Moderate ¹
2,000 to 20,000	Severe
over 20,000	Very Severe

¹= seawater

Acidity is an important factor of soil corrosivity. The lower the pH (the more acidic the environment), the higher will the soil corrosivity be with respect to buried metallic structures. As soil pH increases above 7 (the neutral value), the soil is increasingly more alkaline and less corrosive to buried steel structures due to protective surface films which form on steel in high pH environments. A pH between 5 and 8.5 is generally considered relatively passive from a corrosion standpoint.

As shown in Table 1, the soil resistivity results were 1,240 and 1,796 ohm-centimeters. Based on these results and the resistivity correlations presented in Table 2, the corrosion potential to buried metallic improvements may be characterized as severely corrosive. We recommend that a corrosion protection engineer be consulted about appropriate corrosion protection methods for buried metallic materials. Steel reinforcing in a properly designed concrete structure will not be adversely affected by this corrosion potential.

Based on our previous experience and Table 4.2.1 of the ACI, it is our opinion that sulfate exposure to PCC may be considered negligible for the subsurface materials sampled.

5.0 CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical engineering viewpoint, the proposed residential development may be constructed as planned, in our opinion, provided the design and construction are performed in accordance with the recommendations presented in this report.



5.1 Primary Geotechnical Concerns

The primary geotechnical and geologic concerns at the site are as follows:

- Strong seismic shaking
- Corrosion potential of the near-surface soils
- Moderately to highly expansive near-surface soils

We have prepared a brief description of the issues and present typical approaches to manage potential concerns associated with the long-term performance of the development.

5.1.1 Strong Seismic Shaking

We recommend that, at a minimum, the proposed improvements be designed in accordance with the seismic design criteria as discussed in the Maximum Estimated Ground Shaking section above, and the site seismic coefficients presented in Table 4.

5.1.2 Corrosion Potential of Near-Surface Soils

As discussed above, the corrosion potential to buried metallic improvements constructed within the soil may be characterized as severely corrosive. A qualified corrosion engineer should be contacted to provide specific recommendations regarding corrosion protection for buried metal pipe or buried metal pipe-fittings.

5.1.3 Moderately to Highly Expansive Clays

To reduce the potential for damage to the planned structures due to the presence of moderately to highly expansive surficial soils, we recommend slabs-on-grade have sufficient reinforcement and be supported on a layer of non-expansive fill and that any shallow foundations extend below the zone of seasonal moisture fluctuation. In addition, residences may be supported on PT slabs. Detailed recommendations are presented in the following sections of this report.

5.2 Plans, Specifications, and Construction Review

We recommend that our firm perform a plan review of the geotechnical aspects of the project design for general conformance with our recommendations. In addition, subsurface materials encountered in the relatively small diameter, widely spaced borings may vary significantly from other subsurface materials on the site. Therefore, we also recommend that a representative of our firm observe and confirm the geotechnical specifications of the project construction. This will allow us to form an opinion about the general conformance of the project plans and construction with our recommendations. In addition, our observations during construction will enable us to note subsurface conditions that may vary from the conditions encountered during our investigation and, if needed, provide supplemental recommendations. For the above reasons, our geotechnical recommendations are contingent upon our firm providing geotechnical observation and testing services during construction.



6.0 EARTHWORK

6.1 Clearing and Site Preparation

The proposed project area should be cleared of all surface improvements to be removed and deleterious materials including existing building foundations, slabs, irrigation lines, utilities, fills, pavements, debris, designated trees, shrubs, and associated roots. Abandonment of existing buried utilities is discussed below. Excavations extending below the planned finished site grades should be cleaned and backfilled with suitable material as necessary and compacted as recommended in the "Compaction" section of this report. We recommend that backfilling of holes or pits resulting from demolition and removal of existing building foundations, buried structures or other improvements be carried out under our observation and that the backfill be observed and tested during placement.

After clearing, any vegetated areas within the proposed improvements should be stripped to sufficient depth to remove all surface vegetation and topsoil containing greater than 3 percent organic matter by weight. The actual stripping depth required depends on site usage prior to construction and should be established in the field by us at the time of construction. The stripped materials should be removed from the site or may be stockpiled for use in landscaped areas, if desired.

6.2 Removal of Undocumented Fill

If undocumented fill is encountered, it should be removed down to the native soil. If the fill material meets the requirements in the "Material for Fill" section below, it may be reused as engineered fill. Side slopes of fill removal excavations in building and pavement areas should be sloped at inclinations no steeper than 3:1 (horizontal:vertical) to minimize abrupt variations in fill thickness. All fill should be compacted in accordance with the recommendations for fill presented in the "Compaction" section of this report.

6.3 Cut/Fill Transitions

A grading plan was not available at the time of publication of our report. We recommend that any residences to have cut/fill transitions be constructed by overexcavating the upper 1 foot below the design grade, scarifying, moisture conditioning and recompacting the upper 12 inches in place prior to fill placement (total of 2 feet reworked). We recommend that residences with no cut/fill transitions be constructed on a reworked pad at least 12 inches in thickness extending a minimum of 5 feet laterally beyond foundation perimeter extents.

6.4 Abandoned Utilities

Abandoned utilities within the proposed improvement area should be removed in their entirety where applicable. Utilities within the proposed improvement area would only be considered for in-place abandonment provided they do not conflict with new improvements, that the ends and all laterals are located and completely grouted, and the previous fills associated with the utility do not pose a risk to the structure.

Utilities outside the improvement area should be removed or abandoned in-place by grouting or plugging the ends with concrete. Fills associated with utilities abandoned in-place could pose some risk of settlement; utilities that are plugged could also pose some risk of future collapse or erosion should they leak or become damaged.



6.5 Subgrade Preparation

After the site has been properly cleared, stripped and necessary excavations have been made, exposed surface soils in those areas to receive fill or pavements should be scarified to a depth of 12 inches, moisture conditioned in place, and recompacted in place in accordance with the recommendations for fill presented in the "Compaction" section. The finished compacted subgrade should be firm and non-yielding under the weight of compaction equipment.

6.6 Material for Fill

All on-site soils below the stripped layer having an organic content of less than 3 percent by weight are suitable for use as fill at the site. In general, fill material should not contain rocks or lumps larger than 6 inches in greatest dimension, with 15 percent or less larger than $2\frac{1}{2}$ inches in the greatest dimension.

Import fill material should be inorganic, have a PI of 20 or less and should have sufficient binder to reduce the potential for sidewall caving of foundation and utility trenches. Samples of the proposed import fill should be submitted to us at least 10 working days prior to delivery to the site to allow for visual review and laboratory testing. This will allow us to evaluate the general conformance of the import fill with our recommendations.

Consideration should also be given to the environmental characteristics and corrosion potential of any imported fill. Suitable documentation should be provided for import material. In addition, it may be appropriate to perform laboratory testing of the environmental characteristics and corrosion potential of imported materials. Import soils should not be more corrosive than the on-site native materials, including pH, soluble sulfates, chlorides and resistivity.

6.7 Compaction

All fill, as well as scarified surface soils in those areas to receive fill, should be uniformly compacted to at least 90 percent relative compaction as determined by ASTM Test Designation D1557, latest edition, at a moisture content near the laboratory optimum, except for the expansive clays. The expansive clays should be compacted to between 87 and 92 percent relative compaction at a moisture content at least 5 percent over optimum. Fill should be placed in lifts no greater than 8 inches in uncompacted thickness. Each successive lift should be firm and relatively non-yielding under the weight of construction equipment.

In pavement areas, the upper 6 inches of subgrade and full depth of aggregate base should be compacted to at least 95 percent relative compaction (ASTM D1557, latest edition), except for the expansive clays, which should be compacted as noted above. Aggregate base should be compacted at a moisture content near the laboratory optimum moisture content. Import soils with a PI between 15 to 20 should be compacted at a moisture content at least 3 percent over optimum.

Pad moisture content should be checked within 24 hours of foundation construction to confirm moisture content is at the specified level.

6.8 Wet Soils and Wet Weather Conditions

Earthwork such as subgrade preparation, fill placement and trench backfill may be difficult for soil containing high moisture content or during wet weather. If the soil is significantly above its optimum moisture content, it will become soft, yielding, and difficult to compact. If saturated soils are encountered, aerating or blending with drier soils to achieve a workable moisture content may be



required. We recommend that earthwork be performed during periods of suitable weather conditions, such as the "summer" construction season.

There are several alternatives to facilitate subgrade preparation, fill placement and trench backfill if the soil is wet or earthwork is performed during the wet winter season.

- Scarify and air dry until the fill materials have a suitable moisture content for compaction,
- Over-excavate the fill and replace with suitable on-site or import materials with an appropriate moisture content,
- Install a layer of geo-synthetic (geotextile or geogrid) to reduce surface yielding and bridge over soft fill,
- Chemically treat the higher moisture content soils with quicklime (CaO), kiln-dust, or cement to reduce the moisture content and increase the strength of the fill.

The implementation of these methods should be reviewed on a case-by-case basis so that a cost effective approach may be used for the specific conditions at the time of construction.

6.9 Trench Backfill

Bedding and pipe embedment materials to be used for underground utility pipes (embedment material not including onsite sewer or water tie-ins) should be well graded sand or gravel conforming to the pipe manufacturer's recommendations and should be placed and compacted in accordance with project specifications, local requirements of the governing jurisdiction. General fill to be used above pipe embedment materials should be placed and compacted in accordance with local requirements or the recommendations contained in this section, whichever is more stringent.

On-site soils may be used, at the contractor's option, as general fill above pipe embedment materials provided they meet the requirements of the "Material for Fill" section of this report. General fill should be placed in lifts not exceeding 8 inches in uncompacted thickness and should be compacted to at least 90 percent relative compaction (ASTM D1557, latest edition) by mechanical means only. If expansive soil is used for trench backfill, it should be compacted to between 87 to 92 percent at a moisture content at least 5 percent over optimum. Water jetting of trench backfill should not be allowed. The upper 6 inches of general fill in all pavement areas subject to wheel loads should be compacted to at least 95 percent relative compaction.

Utility trenches located adjacent to footings should not extend below an imaginary 1:1 (horizontal:vertical) plane projected downward from the footing bearing surface to the bottom edge of the trench. Where utility trenches will cross beneath footing bearing planes, the footing concrete should be deepened to encase the pipe or the utility trench should be backfilled with sand/cement slurry or lean concrete within the foundation-bearing plane.

Where relatively higher permeability sand or gravel backfill is used in trenches through lower permeability soils, we recommend that a cut-off plug of compacted clayey soil or a 2-sack cement/sand slurry be placed where such trenches enter the building and pavement areas. This would reduce the likelihood of water entering the trenches from the landscaped areas and seeping through the trench backfill into the building and pavement areas, and coming into contact with very highly expansive subgrade soils.



6.10 Temporary Slopes and Trench Excavations

The contractor should be responsible for all temporary slopes and trenches excavated at the site and design of any required temporary shoring. Shoring, bracing, and benching should be performed by the contractor in accordance with the strictest governing safety standards. On a preliminary basis, site soils can be classified as Type B based on soil classification by OSHA. Therefore a maximum slope 1:1 (horizontal:vertical) should be anticipated. A TRC representative should be retained to verify soil conditions in the field at the time of the excavation.

6.11 Surface Drainage

Positive surface water drainage gradients, at least 1 percent in landscaping and 0.5 percent in pavement areas, should be provided to direct surface water away from foundations and slopes towards suitable discharge facilities. Ponding of surface water should not be allowed on or adjacent to structures, slabs-on-grade, or pavements. Roof runoff should be directed away from the foundations and slabs-on-grade. Downspouts may discharge onto splash-blocks provided the area is covered with concrete slabs or asphalt concrete pavements.

6.12 Landscaping Considerations

We recommend restricting the amount of surface water infiltrating these soils near structures and slabs-on-grade. This may be accomplished by:

- Selecting landscaping that requires little or no watering, especially within 3 feet of structures, slabs-on-grade, or pavements,
- Using low flow rate sprinkler heads, or drip irrigation systems,
- Regulating the amount of water distributed to lawn or planter areas by installing timers on the sprinkler system,
- Providing surface grades to drain rainfall or landscape watering to appropriate collection systems and away from structures, slabs-on-grade, or pavements,
- Preventing water from draining toward or ponding near building foundations, slabs-on-grade, or pavements.

6.13 Construction Observation

A field technician should observe the geotechnical aspects of the grading and earthwork for general conformance with our recommendations including site preparation, selection of fill materials, and the placement and compaction of fill. To facilitate your construction schedule we request sufficient notification (48 hours) for site visits. The project plans and specifications should incorporate all recommendations contained in the text of this report.

7.0 FOUNDATIONS

Based on our investigation, the proposed structures may be supported on shallow foundations as discussed below.



7.1 2016 CBC Site Class and Site Seismic Coefficients

Chapter 16 of the 2016 California Building Code outlines the procedure for seismic design of structures. Based on our explorations, the site is generally underlain by stiff to hard clays, and dense sands, which corresponds to a soil profile type D. Based on the above information and local seismic sources, the site may be characterized for design using the information in Table 4 below.

Latitude: 37.960975 N Longitude: - 121.719506 W	CBC Reference	Factor/ Coefficient	Value
Soil Profile Type	Section 1613.3.2	Site Class	D
Mapped Spectral Response Acceleration for MCE at 0.2 second Period	Figure 1613.3.1(1)	Ss	1.50
Mapped Spectral Response Acceleration for MCE at 1 Second Period	Figure 1613.3.1(2)	S ₁	0.52
Site Coefficient	Table 1613.3.3(1)	F _a	1.00
Site Coefficient	Table 1613.3.3(2)	F _v	1.50
Adjusted MCE Spectral Response Parameter	Equation 16-37	S _{MS}	1.50
Adjusted MCE Spectral Response Parameter	Equation 16-38	S _{<i>M1</i>}	0.77
Design Spectral Response Acceleration Parameter	Equation 16-39	S _{DS}	1.00
Design Spectral Response Acceleration Parameter	Equation 16-40	\$ _{D1}	0.52

Table 4. 2016 CBC Site Class and Site Seismic Coefficients (done)

7.2 Post-Tensioned Mat Slab Recommendations

The proposed residences can be supported on post-tensioned mats bearing on prepared native soil or compacted fill. Before slab construction, the subgrade surface should be proof-rolled to provide a smooth, firm surface for slab support.

Post-tension mats should be designed with the criteria presented in Table 5 below, using an average allowable bearing pressure of 1,000 pounds per square foot (psf) for dead plus live loads, with maximum localized bearing pressures of 3,000 psf at column or wall loads. Allowable bearing pressures may be increased by one-third for all loads including wind or seismic. All mats should be designed with a thickened edge at least 12 inches wide and 12 inches thick. The thickened edge should be considered from top to bottom of mat. The structural engineer should determine the slab thickness and reinforcing in accordance with the anticipated use and loading of the slab.

Table 5.	Post-Tension	Mat Design	Criteria
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Condition	Center Lift	Edge Lift
Edge Moisture Variation (ft.)	9.0	4.5
Differential Soil Movement (in.)	0.30	1.25



The above design criteria is based on the procedure presented by the Post-Tensioning Institute (2007) using a Thornthwaite Moisture Index of -30, a Plasticity Index of 30 and 32, 73 and 79 percent passing the No. 200 sieve and 37 and 40 percent smaller than 2 microns. We estimate that the total static settlement will be on the order of $\frac{1}{2}$ -inch for the mat slab foundation. We recommend that the mat be designed to accommodate $\frac{1}{2}$ -inch of differential settlement over a horizontal distance of 50 feet.

Lateral loads may be resisted by friction between the bottom of mats and the supporting subgrade. A maximum allowable frictional resistance of 0.3 may be used for design. If two layers of vapor retarder are used, we would recommend a maximum frictional resistance of 0.1 for design. In addition, lateral resistance may be provided by passive pressures acting against mat edges poured neat against competent soil. We recommend that an allowable passive pressure based on an equivalent fluid pressure of 300 pounds per cubic foot (pcf) be used in design. The upper 12 inches of soil should be neglected when determining lateral passive resistance.

According to the PTI manual, the following assumptions were made when using this design procedure:

- The site will be sloped such that the water flows away from the foundation for a distance of 5 ft from the perimeter,
- Downspouts should be tied directly into storm drains, swales or other means to direct excessive moisture away from the foundation,
- The foundation should not be constructed over a cut/fill transition in expansive or compressible soils without proper considerations for swell and/or settlement potential, and
- Stoops, patios, etc, should be cast independently of the slab foundation unless it is the foundation for a supporting member, such as a column. Include expansion material between slab and non-structural concrete.

In addition, since the post-tensioned mat is a flexible foundation system, consideration should be given to compatibility with roof trusses, load concentrations, brittle exterior siding, drainage and utility connections. The design procedures provided in the PTI manual are only valid if the above assumptions are taken into account. Proper site preparation and maintenance are vital to the success of the foundation design.

7.3 Moisture Protection Considerations for Slabs-on-Grade

Since the long-term performance of the concrete mat foundations and slabs-on-grade depends to a large degree on good design, workmanship, and materials, the following general guidelines are presented for consideration by the developer, design team, and contractor. The purpose of these guidelines is to aid in producing a concrete mat or slab of sufficient quality to allow successful installation of floor coverings and reduce the potential for floor covering failures due to moisture-related problems associated with mat and slab-on-grade foundation construction. These guidelines may be supplemented, as necessary, based on the specific project requirements.

We recommend at least 15 mil of vapor retarder, which can be achieved with either a single layer of 15-mil retarder (such as Stego-wrap) or two 10-mil retarders. The vapor retarder should meet or exceed ASTM E 1745, Class A requirements and should be placed directly below the mat. The vapor retarder should extend to the edge of the mat. At least 2 inches of free-draining gravel, such as ¹/₂-inch or ³/₄-inch crushed rock with no more than 5 percent passing the ASTM No. 200 sieve, should be placed below the vapor retarder to serve as a capillary break (no sand). The crushed rock should be consolidated in place with vibratory



equipment. The vapor retarder should be sealed at all seams and penetrations. The crushed rock is not needed for slabs 10 inches or thicker.

- The concrete water/cement ratio should not exceed 0.57. Midrange plasticizers could be used to facilitate concrete placement and workability.
- Water should not be added after initial batching, unless the slump of the concrete is less than specified, and the resulting water/cement ratio will not exceed 0.57.
- Polishing the concrete surface with metal trowels should not be permitted.
- Water vapor emission levels and pH should be determined before floor installation as required by the manufacturer of the floor covering materials. Measurements and calculations should be made according to ASTM F1869-98 and F710-98 protocol.

The guidelines presented above are based on information obtained from various technical sources, including the American Concrete Institute (ACI), and are intended to present information that can be used to reduce potential long-term impacts from slab moisture infiltration. It should be noted that the application of these guidelines does not affect the geotechnical aspects of the foundation performance.

Please have your structural engineer forward a copy of the mat slab design to us for our review when it is complete.

7.4 Footings

Any lightly loaded structures may be supported on conventional continuous and/or isolated spread footings bearing on prepared native soil or compacted fill. All footings should have a minimum width of 18 inches, and the bottom of footings should extend at least 24 inches below lowest adjacent finished grade. Lowest adjacent finished grade may be taken as the bottom of interior slab-on-grade or the finished exterior grade, excluding landscape topsoil, whichever is lower.

Footings constructed in accordance with the above recommendations would be capable of supporting maximum allowable bearing pressures of 2,000 pounds per square foot (psf) for dead loads, 3,000 psf for combined dead and live loads, and 4,000 psf for all loads including wind or seismic. These allowable bearing pressures are based upon factors of safety of 3.0, 2.0 and 1.5 for dead, dead plus live, and seismic loads, respectively.

These maximum allowable bearing pressures are net values; the weight of the footings may be neglected for design purposes. All footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing.

All continuous footings should be reinforced with top and bottom steel to provide structural continuity and to help span local irregularities. It is essential that we observe all footing excavations before reinforcing steel is placed.

7.5 Footing Settlement

Structural loads were not available for our review at the time of our investigation. Therefore, we assumed typical interior maximum column dead plus live loads on the order of 50 kips. Based on these assumed loads and the maximum allowable bearing pressures recommended above, we estimate that total footing settlement should be approximately 1-inch with post-construction differential movement between of approximately 1/2-inch over a horizontal distance of 50 feet. We should be



retained to review the final foundation plans and structural loads to verify the above settlement estimates.

7.6 Lateral Loads

Lateral loads may be resisted by friction between the bottom of footings and the supporting subgrade. A maximum allowable frictional resistance of 0.30 may be used for design. In addition, lateral resistance may be provided by passive pressures acting against footings poured neat against competent soil. We recommend that an allowable passive pressure based on an equivalent fluid pressure of 300 pounds per cubic foot (pcf) be used in design. The upper 12 inches of soil should be neglected when calculating lateral passive resistance unless covered by concrete slabs or pavements.

7.7 Slabs-On-Grade

We recommend concrete slabs used in conjunction with shallow footings be supported on at least 12 inches of non-expansive fill (NEF). NEF may include aggregate base, crushed rock, quarry fines or import soil having a PI of 15 or less. We also recommend that the contractor take special measures to protect the subgrade from any inflow of water during construction, especially after the floor slab has been cast.

If desired to limit moisture rise through slab-on-grade floors, the guidelines presented in the "Moisture Protection Considerations" section of this report should be considered.

Post-construction cracking of concrete slabs-on-grade is inherent in any project. In our opinion, consideration should be given toward a maximum control joint spacing of 10 to 15 feet in both directions for the interior slab-on-grade construction. Adequate slab reinforcement should be provided to satisfy the anticipated use and loading requirements. The floor slabs for the structure should be designed to structurally span an area 10 feet in diameter. If slabs cannot be designed to accommodate this movement, they should be designed as structural slabs.

We recommend that the contractor take special measures to protect the subgrade from any inflow of water during construction, especially after the floor slab has been cast. Areas to receive special attention include slab joints and areas where building columns pass through the floor slab.

8.0 SOUNDWALLS AND RETAINING WALLS

8.1 Lateral Earth Pressures

Any proposed soundwalls and retaining walls should be designed to resist lateral earth pressures from adjoining natural materials, backfill, and surcharge loads. Provided that adequate drainage is provided as recommended below, we recommend that unrestrained walls be designed to resist an equivalent fluid pressure of 45 pcf and restrained wall be designed resist an equivalent fluid pressure of 45 pcf plus a uniform pressure of 8H pounds per square foot, where H is the distance in feet between the bottom of the footing and the top of the retained soil. Unrestrained walls should also be designed to resist an additional uniform pressure equivalent to one-third of any surcharge loads applied at the surface and restrained walls should be designed to resist an additional uniform pressure equivalent to one-half of any surcharge loads applied at the surface.

The above lateral earth pressures assume level backfill conditions and sufficient drainage behind the walls to prevent build-up of hydrostatic pressure from surface water infiltration and/or a rise in the ground water level. If adequate drainage is not provided, we recommend an equivalent fluid pressure of 40 pcf be added to the values recommended above for both restrained and unrestrained walls.



Damp proofing of the walls should be included in areas where wall moisture and efflorescence would be undesirable.

8.2 Seismic Lateral Earth Pressures

Any soundwalls or retaining walls greater than 6 feet in height need to be designed for seismic lateral loading. For our analysis, we have assumed that the walls will have flat, non-sloping backfill. We used the Mononobe-Okabe approach to approximate the increased earth pressures induced by earthquakes. As discussed in Section 3.2 of our report, a peak ground acceleration of 0.50g is expected at the site. We performed calculations using this ground acceleration and estimated an additional seismic increment of 13 pcf to be applied to in addition to the static lateral earth pressures given in Section 8.1 for flexible walls. For fixed walls, under seismic conditions the total pressure to be used in analysis (seismic plus static) should be the greater of at-rest pressure or the sum of the active pressure and the seismic increment acting in a triangular distribution.

8.3 Drainage

All proposed walls over 2 feet in exposed height should be designed with adequate drainage. Adequate drainage may be provided by a subdrain system behind the 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, ¹/₂- to ³/₄-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 equivalent. The upper 2 feet of wall backfill should consist of relatively low permeable compacted on-site clayey soil. The subdrain outlet should be connected to a free-draining outlet or sump.

Miradrain, Geotech Drainage Panels, or Enkadrain drainage matting may be used for wall drainage as an alternative to the Class 2 Permeable Material or drain rock backfill. The drainage panel should be connected to the perforated pipe at the base of the wall, or to some other closed or through-wall system. Miradrain panels should terminate 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.

8.4 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.

8.5 Foundation

Reinforced concrete soundwalls and retaining walls not located on or adjacent to slopes may be supported on a continuous spread footing designed in accordance with the recommendations presented in the "Footings" section of this report. Lateral load resistance for the walls may be developed in accordance with the recommendations presented in the "Lateral Loads" section. Mechanically stabilized earth block walls may be supported on foundations constructed in accordance with manufacturer's recommendations.



9.0 PAVEMENTS

9.1 Asphalt Concrete

Based on the near-surface soils encountered during our exploration, which consisted of moderately to highly expansive clay, we judged an R-value of 5 to be applicable for design based on a subgrade consisting of untreated native soils. Using estimated traffic indices for various pavement-loading requirements, we developed the following recommended pavement sections based on Procedure 608 of the Caltrans Highway Design Manual, presented in Table 6. The pavement section should be designed based on the stringiest requirements between Table 6 and the city standard.

General Traffic Condition	Design Traffic Index	Asphalt Concrete (Inches)	Aggregate Baserock* (Inches)	Total Thickness (Inches)
Automobile	5.0	3.0	10.0	13.0
Parking Channel	5.5	3.0	12.0	15.0
Truck Access &	6.0	3.5	13.0	16.5
Parking Areas	6.5	4.0	14.0	18.0

Table 6. Recommended Asphalt Concrete Pavement Design Alternatives Pavement Components Design R–Value = 5

*Caltrans Class 2 aggregate base; minimum R-value equal to 78.

The traffic indices used in our pavement design are considered reasonable values for the proposed development and should provide a pavement life of approximately 20 years with a normal amount of flexible pavement maintenance. If the pavement subgrade soils are expansive, increased maintenance and reduction in pavement life can be expected. The traffic parameters used for design were selected based on engineering judgment and not on information furnished to us such as an equivalent wheel load analysis or a traffic study. We recommend that R-value testing be performed on the actual subgrade soils once the grades have been raised. If testing indicates a significantly higher R-value, it may be feasible to reduce the design pavement sections.

Because the full thickness of asphalt concrete is frequently not placed prior to construction traffic being allowed to use the street, rutting and pavement failures can occur prior to project completion. To reduce this occurrence, we recommend that either the full design pavement section be placed prior to use by construction traffic, or a higher Traffic Index (TI) be specified where construction traffic will use the pavement.

In addition, it has been our experience that asphalt concrete pavements constructed over expansive soils and adjacent to non-irrigated open space areas may experience cracking parallel to the edge of the pavement. This is typically caused by seasonal shrinkage and swelling adjacent to non-irrigated edges of the pavement. The cracks typically occur within the first few years of construction, and are typically located within a few to several feet of the edge of the pavement. The cracks, if they occur, can be filled with a bituminous sealant. Otherwise, a moisture barrier would need to be installed to a depth of at least 24 inches to reduce the potential for shrinkage of the pavement subgrade soils.

9.2 Asphalt Concrete, Aggregate Base and Subgrade

Asphalt concrete and aggregate base should conform to and be placed in accordance with the requirements of Caltrans Standard Specifications, latest edition, except that ASTM Test Designation D1557 should be used to determine the relative compaction of the aggregate base. Pavement subgrade should be prepared and compacted as described in the "Earthwork" section of this report.



9.3 Flatwork and Sidewalks

We recommend that exterior slabs-on-grade, such as flatwork and sidewalks be at least 6 inches thick and be underlain by at least 6 inches of Class 2 aggregate base compacted to a minimum of 90 percent relative compaction in accordance with ASTM Test Method D1557, latest edition.

We recommend that exterior slabs be isolated from adjacent foundations and that adequate construction and control joints be used in design of the concrete slabs to control cracking inherent in concrete construction.

10.0 LIMITATIONS

This report has been prepared for the sole use of Cyrus Land Investments, LLC, specifically for design of the proposed Lone Tree Way Residential Development project in Brentwood, California. The opinions, conclusions, and recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in the San Francisco Bay Area at the time this report was written. No other warranty, expressed or implied, is made or should be inferred.

The opinions, conclusions and recommendations contained in this report are based upon the information obtained from our investigation, which includes data from widely separated discrete locations, visual observations from our site reconnaissance, and review of other geotechnical data provided to us, along with local experience and engineering judgment. The recommendations presented in this report are based on the assumption that soil and geologic conditions at or between the borings do not deviate substantially from those encountered or extrapolated from the information collected during our investigation. We are not responsible for the data presented by others.

We should be retained to review the geotechnical aspects of the final plans and specifications for conformance with our recommendations. The recommendations provided in this report are based on the assumption that we 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, TRC cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of TRC's report by others. Furthermore, TRC will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services and/or at the time another consultant is retained for follow up service to this report.

The opinions presented in this report are valid as of the present date for the property evaluated. Changes in the condition of the property will likely occur with the passage of time due to natural processes and/or the works of man. In addition, changes in applicable standards of practice can occur because of legislation and/or the broadening of knowledge. Furthermore, geotechnical issues may arise that were not apparent at the time of our investigation. Accordingly, the opinions presented in this report may be invalidated, wholly or partially, by changes outside of our control. Therefore, this report is subject to review and should not be relied upon after a period of three years, nor should it be used, or is it applicable, for any other properties.

11.0 REFERENCES

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ASCE (American Society of Civil Engineers), 2010, *Minimum Design Loads for Buildings and Other Structures*, ASCE/SEI Standard 7-10.

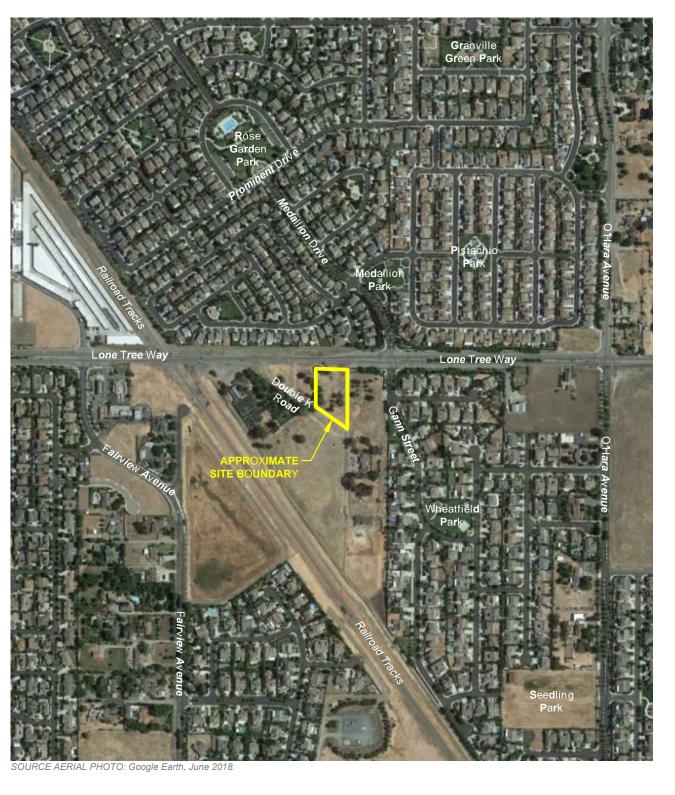


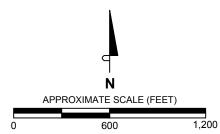
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VICINITY MAP Lone Tree Way Residential Development Brentwood, California

338571

♦ TRC

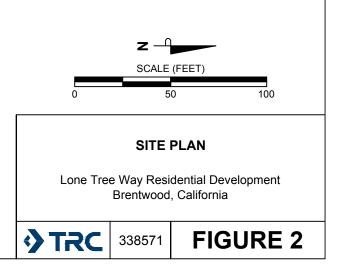
FIGURE 1



LEGEND

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Approximate location of boring by TRC, 2019



APPENDIX A

FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using conventional, truck-mounted, hollow-stem auger drilling equipment. Two 8-inch diameter exploratory borings were drilled on May 10, 2019 to a maximum depth of 30 feet. The approximate locations of the exploratory borings are shown on Figure 2. The soils encountered in the borings were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). The logs of the borings, as well as a key to the classification of the soil, are included as part of this appendix.

The locations of borings were approximately determined by pacing from existing site boundaries. Elevations of the boring were not determined. The locations of the borings 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. Penetration resistance blow counts were obtained by dropping a 140-pound hammer 30 inches. Modified California 3.0-inch outside diameter (0.D.) samples and Standard Penetration Test (SPT) 2-inch 0.D. samples were obtained by driving the samplers 18 inches and recording the number of hammer blows for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring logs represent the accumulated number of blows required to drive the samplers the last two 6-inch increments. When using the SPT sampler, the sum of the last two 6-inch increments is the uncorrected SPT measured blow count. The various samplers are denoted at the appropriate depth on the boring logs and symbolized as shown on Figure A-1.

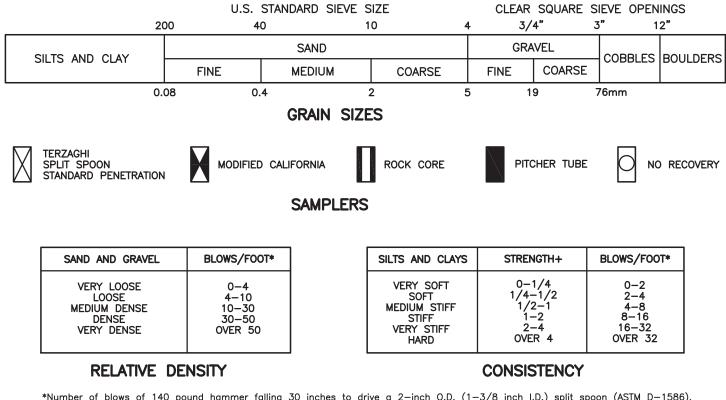
The attached boring logs and related information depict subsurface conditions at the locations indicated and, on the date, designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these boring locations. The passage of time may result in altered subsurface 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.

* * * * * * * * * * *



Pf	RIMARY DIVISION	IS	SOIL TYPE		SECONDARY DIVISIONS
		CLEAN GRAVELS	GW		Well graded gravels, gravel—sand mixtures, little or no fines
SOILS TERIAL 200	GRAVELS MORE THAN HALF OF COARSE FRACTION	(Less than 5% Fines)	GP	$^{\circ}O^{\circ}$	Poorly graded gravels or gravel—sand mixtures, little or no fines
≤"	IS LARGER THAN NO. 4 SIEVE	GRAVEL WITH	GM	600	Silty gravels, gravel—sand—silt mixtures, plastic fines
GRAINED GRAINED I HALF OF W IR THAN NO.		FINES	GC		Clayey gravels, gravel—sand—clay mixtures, plastic fines
GR GR	0.11/20	CLEAN SANDS	SW		Well graded sands, gravelly sands, little or no fines
COARSE MORE THA IS LARG	SANDS MORE THAN HALF	(Less than 5% Fines)	SP		Poorly graded sands or gravelly sands, little or no fines
w CO	OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	SANDS WITH	SM		Silty sands, sand-silt-mixtures, non-plastic fines
		FINES	SC		Clayey sands, sand-clay mixtures, plastic fines
N IN O			ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
E GRAINED SOILS E THAN HALF OF MATERIAL SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
					Organic silts and organic silty clays of low plasticity
GRAINED GRAINED IAN HALF OF VILER THAN SIEVE SIZE			мн		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
FINE C	SILTS AND		СН		Inorganic clays of high plasticity, fat clays
FIN					Organic clays of medium to high plasticity, organic silts
HIGI	HLY ORGANIC SO	ILS	PT		Peat and other highly organic soils

DEFINITION OF TERMS



*Number of blows of 140 pound hammer falling 30 inches to drive a 2-inch 0.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586). +Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

> KEY TO EXPLORATORY BORING LOGS Unified Soil Classification System (ASTM D-2487)



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APPENDIX B

LABORATORY PROGRAM

The laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the site and to aid in verifying soil classification.

Moisture Content: The natural water content was measured (ASTM D2216) on samples of the materials recovered from the boring. These water contents are recorded on the boring log at the appropriate sample depths.

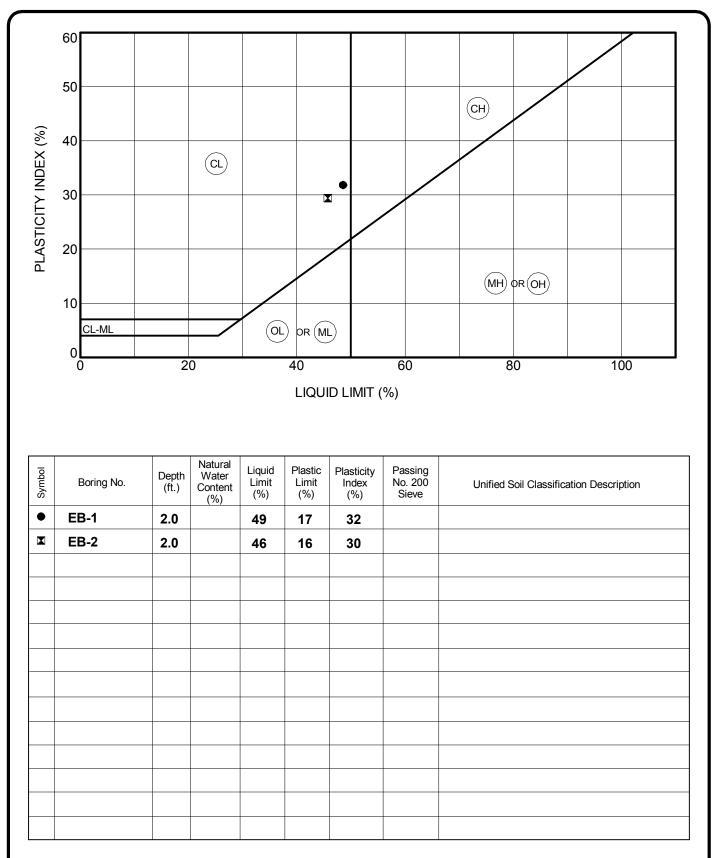
Dry Densities: In place dry density tests (ASTM D2937) were performed on samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring log at the appropriate sample depths.

Plasticity Index: Two Plasticity Index (PI) test determinations (ASTM D4318) were performed on samples of the subsurface soils to measure the range of water contents over which these 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 presented on the Plasticity Chart of this appendix and on the logs of the boring at the appropriate sample depths.

Sieve and Hydrometer Analyses: Gradation and washed sieve analysis (ASTM D422 and D2217) were performed on two samples of the subsurface soils to aid in the soil classification. Results of these tests are included in this appendix.

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CORP.GDT 5/27/19 MV, CA*

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PLASTICITY CHART AND DATA

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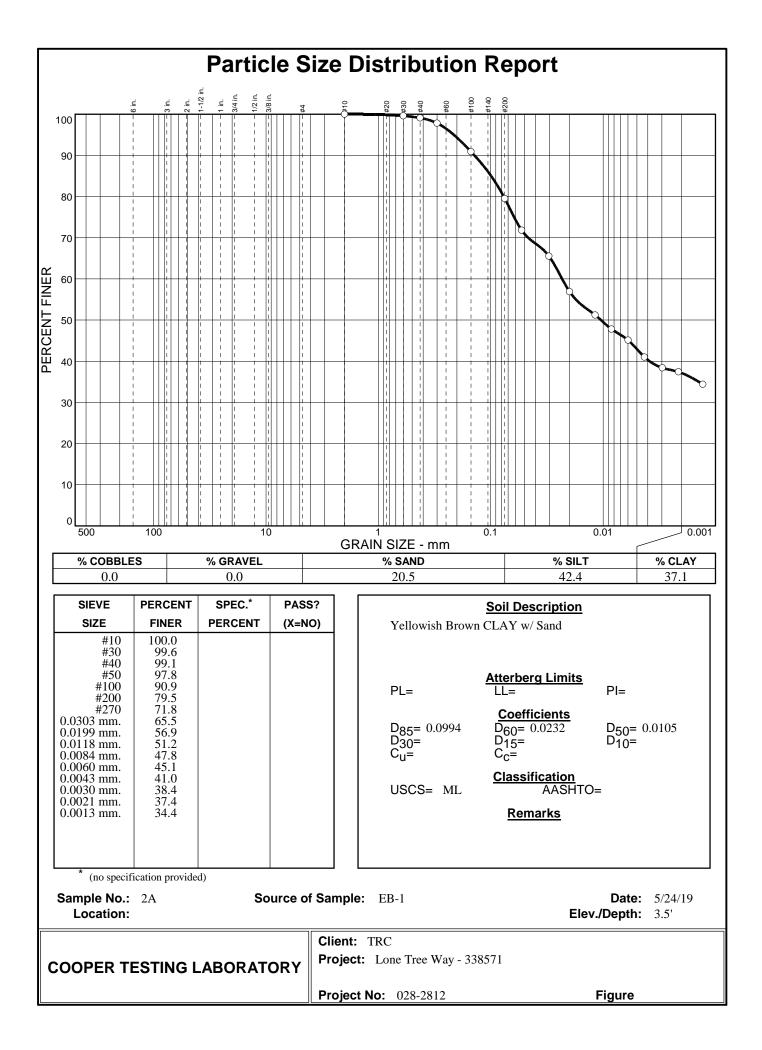
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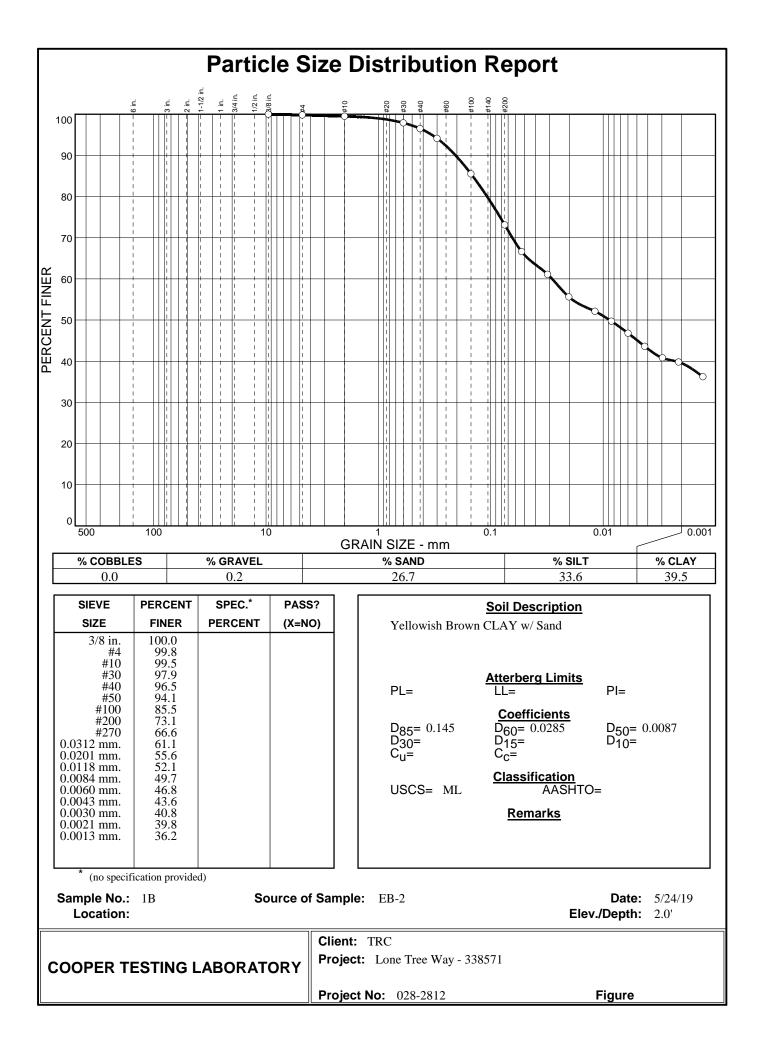
FIGURE B-1



Corrosivity Tests Summary

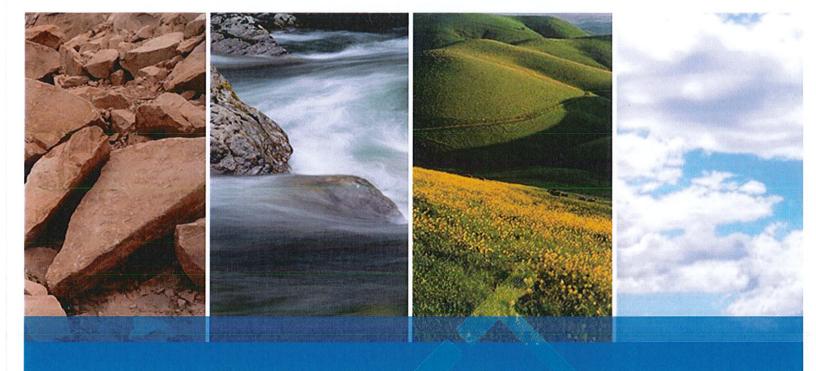
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Boring	Sample, No.	Depth, ft.	ASTM G57	Cal 643	ASTM G57	ASTM D4327	ASTM D4327	ASTM D4327	ASTM G51	ASTM G200	Temp °C	Acetate Paper	ASTM D2216	
EB-1	2A	3.5	-	-	1,240	6	112	0.0112	7.2	-	-	-	18.2	Yellowish Brown CLAY w/ Sand
EB-2	1B	2.0	-	-	1,796	7	91	0.0091	6.8	-	-	-	18.1	Yellowish Brown CLAY w/ Sand





Appendix H

Draft Skipolini Removal Action Plan



SKIPOLINI PROPERTY

7281 LONE TREE WAY BRENTWOOD, CALIFORNIA

REMOVAL ACTION WORK PLAN

SUBMITTED TO

Cyrus Land Investments, LLC 4021 Port Chicago Highway Concord, California 94520

> PREPARED BY ENGEO Incorporated

> > August 5, 2019

PROJECT NO. 11133.002.000



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REMOVAL ACTION WORK PLAN SKIPOLINI PROPERTY 7281 LONE TREE WAY BRENTWOOD, CALIFORNIA

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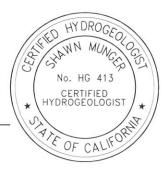


TABLE OF CONTENTS

INTRO	ODUCI	۲ION	3
1.1	REMO	VAL ACTION PROCESS	3
	1.1.1 1.1.2 1.1.3	Regulatory Basis for the RAW Objectives of the RAW Elements of the RAW	3
1.2	SITE D	ESCRIPTION	4
	1.2.1	Current and Historic Land Use	4
1.3	SITE O	WNER	4
SITE	CHAR	ACTERIZATION	4
2.1 2.2 2.3 2.4	SUPPL BACKO	EMENTAL SAMPLING AND ANALYSES	5 7
REMO	OVAL A	CTION OBJECTIVE AND SOIL CLEANUP LEVELS	9
REMO	VAL A	CTION IMPLEMENTATION	14
4.1 4.2			
SAMP	LING	AND ANALYSIS PLAN	15
5.1 5.2	CONFII SOIL S	RMATION SAMPLING OF EXCAVATED AREAS TOCKPILE CLASSIFICATION	15 15
HEAL	TH AN	D SAFETY PLAN	16
REPO	RTING	i	16
	INTRO 1.1 1.2 1.3 SITE 2.1 2.2 2.3 2.4 REMO 4.1 4.2 SAMP 5.1 5.2 HEAL	INTRODUCT 1.1 1.1 1.1.1 1.1.2 1.1.3 1.2 SITE D 1.2.1 1.3 SITE CHARM 2.1 INITIAL 2.2 SUPPL 2.3 BACKG 2.4 NATUE REMOVAL A 4.1 PERMIT 4.2 EXCAV SAMPLING A 5.1 CONFIN 5.2 SOIL S	1.1.1 Regulatory Basis for the RAW. 1.1.2 Objectives of the RAW. 1.1.3 Elements of the RAW. 1.1.3 Elements of the RAW. 1.1.3 Elements of the RAW. 1.2 SITE DESCRIPTION. 1.2.1 Current and Historic Land Use. 1.3 SITE OWNER. SITE CHARACTERIZATION. 2.1 INITIAL SAMPLING AND TESTING. 2.2 SUPPLEMENTAL SAMPLING AND ANALYSES. 2.3 BACKGROUND ARSENIC EVALUATION. 2.4 NATURE AND EXTENT OF CONTAMINATION. REMOVAL ACTION OBJECTIVE AND SOIL CLEANUP LEVELS. REMOVAL ACTION IMPLEMENTATION. 4.1 PERMITTING AND SITE PREPARATION. 4.2 EXCAVATION METHODOLOGY. SAMPLING AND ANALYSIS PLAN. 5.1 CONFIRMATION SAMPLING OF EXCAVATED AREAS.

FIGURES

- APPENDIX A Dust Control Plan
- **APPENDIX B** Transportation Plan
- APPENDIX C Sampling and Analysis Plan
- APPENDIX D Quality Assurance Project Plan
- APPENDIX E Health and Safety Plan



EXECUTIVE SUMMARY

This Removal Action Work plan (RAW) was prepared for the property located at 7281 Lone Tree Way in Brentwood, California (the "Site"). The purpose of the RAW is to describe the proposed procedures and protocols for remediation of lead-impacted soil at the Site. The primary purpose of the RAW is to present the remedial measures to mitigate lead-impacted soil to allow for possible future development.

A RAW is one of two remedy selection documents that may be prepared for a hazardous substance release site pursuant to California Health and Safety Code (HSC) Section 25356.1 A RAW is appropriate for removal actions that are projected to cost less than \$2,000,000.

The Site is located at 7281 Lone Tree Way in Brentwood, California. The Site is approximately 2.96 acres in area and is identified by Assessor's Parcel Number (APN) 018-080-022. The Site currently consists of undeveloped fallow land. Review of historical records indicates that the Site had been occupied by residential structures between 1949 and 2003. Review of historical records indicates that structures were demolished in 2003 and the Site has been undeveloped since. Historical aerial photographs indicate a portion of the parcel consisted of orchards.

In 2014, ENGEO conducted a Phase I Environmental Site Assessment and a subsequent Agrichemical Impact Assessment for the Site. No significant pesticide or arsenic impacts were identified; however, elevated lead concentrations exceeding residential screening levels were identified in one area of the parcel. Lead is the only identified chemical of potential concern (COPC). Based on the findings of the soil sampling and laboratory testing, the soil impacts appear to be limited to an approximately 21,000-square-foot area in the west-central portion of the parcel. The depth of the impacted soil is likely limited to the upper 12 inches of soil measured from the ground surface, equating to an approximate volume of 800 to 1,000 cubic yards.

The removal action objective (RAO) is to reduce the human health risks associated with the COPC in Site soil to a level that is acceptable for possible future development. Based on the RAO, cleanup levels have been established that are protective of human health and the environment and reduce the potential for exposure to the COPC in soil encountered at the Site. The established cleanup level for lead is 80 milligrams per kilogram (mg/kg) (CAL-EPA residential screening level).

The selected remedial approach for the Site is excavation and offsite disposal. This approach includes the following:

- Excavation of an estimated 800 to 1,000 cubic yards of lead-impacted soil.
- Stockpiling of the excavated soil for landfill profiling.
- Transport of the soil to an appropriate permitted disposal facility, an offsite property where reuse may be potentially considered, or potential reuse on-Site, depending on lead concentrations.
- Collection of confirmation soil samples across the excavation area to verify the removal of lead-impacted soil.



This document details past investigations, health risk assessments and details regarding the proposed removal action. The RAW also includes details regarding implementation of the removal action, including sampling protocols, quality control/quality assurance, dust control measures, a transportation plan, and a site-specific health and safety plan.

Implementation of this RAW will mitigate health-based risks associated with the noted lead in near-surface soil and allow for possible future development.



1.0 INTRODUCTION

A Removal Action Work Plan (RAW) is one of two remedy selection documents that may be prepared for a hazardous substance release site pursuant to California Health and Safety Code (HSC) Section 25356.1. It is appropriate for removal actions that are projected to cost less than \$2,000,000. This RAW has been prepared in compliance with the California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC) September 23, 1998 guidance memorandum entitled *Removal Action Workplans – Senate Bill 1706*.

1.1 REMOVAL ACTION PROCESS

The RAW process, including the regulatory background and the RAW objectives, is described in the following sections.

1.1.1 Regulatory Basis for the RAW

In California HSC 25323.1, a RAW is defined as, "A work plan prepared or approved by the Department (DTSC) or a California Regional Water Quality Control Board (RWQCB) which is developed to carry out a removal action, in an effective manner, that is protective of the public health and safety and the environment." As mentioned previously, a RAW is appropriate when the estimated cost of the removal action is less than \$2,000,000. If the estimated capital cost of implementing the chosen action will exceed \$2,000,000, a Remedial Action Plan should be prepared.

The estimated cost of the selected removal alternative recommended in this RAW is less than \$2,000,000.

1.1.2 Objectives of the RAW

The objectives of this RAW are to:

- Present and evaluate existing Site conditions;
- Establish soil cleanup levels for protection of human health and the environment; and
- Evaluate alternatives and identify a final recommendation for a removal action at the Site that is protective of human health and the environment.

1.1.3 Elements of the RAW

To accomplish the objectives stated in the preceding section, and satisfy regulatory requirements, this RAW includes the following elements:

- A description of the nature and extent of the COPCs at the Site.
- The goals and soil cleanup levels to be achieved by the removal action.
- A description of the remedial approach and preparation of an implementation plan.



1.2 SITE DESCRIPTION

The Site is located at 7281 Lone Tree Way in Brentwood, California (Figure 1). The 2.96-acre Site is identified as APN 018-080-022 (Figure 2). The Site currently consists of undeveloped fallow land. The parcels to the south and west consist of ranch houses and grazing land, while parcels to the north and west consist of residential developments.

According to published topographic maps, the Site is relatively level at an elevation approximately 90 feet above mean sea level (msl). Review of the Dibblee (2006) Geologic Map found that the Site is underlain by Quaternary-aged alluvial deposits (QI).

Six Federal United States Geological Survey (USGS) wells and five State wells are located within 1 mile of the Site. Groundwater measurements for these wells range between 28 feet and 62 feet below the ground surface.

1.2.1 Current and Historic Land Use

The 2.96-acre Site currently consists of undeveloped fallow land. The parcels to the south and west consist of ranch houses and grazing land, while parcels to the north and west consist of residential developments.

Review of historical records indicates that the Site had been occupied by residential structures between 1949 and 2003. Review of historical records indicates that structures were demolished in 2003, and the Site has been undeveloped since. Historical aerial photographs indicate a portion of the parcel consisted of orchards.

There is no current development plans; however, the Site may be developed for residential use in the future.

1.3 SITE OWNER

The Property title is vested in Cyrus Land Investments, LLC.

2.0 SITE CHARACTERIZATION

2.1 INITIAL SAMPLING AND TESTING

Field work was conducted by ENGEO on May 15, 2014. Four surface soil samples were collected at the Property using hand-sampling equipment from approximately 0 to 6 inches below the ground surface. The sample locations are depicted in Figure 3.

Laboratory analysis of the soil samples included the following target analytes:

- Organochlorine pesticides (OCPs EPA 8081A) one 4-point composite sample.
- Arsenic, cadmium, chromium, lead, nickel, zinc (EPA 6020) one discrete sample.

The following tables summarize the laboratory results:



TABLE 2.1-1: Organochlorine Pesticides (OCPs) – May 2014 - Composite Soil Sample Results (micrograms per kilogram - □g/kg)

SAMPLE	4,4-DDT	4,4-DDE	4,4-DDD
CS1-A,B,C,D	27	110	ND
DTSC-SL1	N/A	N/A	N/A
RSL ²	2,000	2,000	2,900

TABLE 2.1-2: Metal Analysis – May 2014 - Discrete Soil Sample Results (milligrams per kilogram - mg/kg)

SAMPLE	AS	CD	CR(III)	PB	NI	ZN
CS1-A	9.8	0.47	29	200	27	160
DTSC-SL	0.11	910	N/A	80	N/A	N/A
RSL	0.77	2,100	120,000	400	15,000	23,000

The reported OCPs were below levels of concern for residential land use; however, given the results of the initial metal analyses, the laboratory was instructed to homogenize and re-analyze the four discrete samples for arsenic and lead:

SAMPLE ARSENIC LEAD CS1-A 5.8 47 CS1-B 7.7 37 CS1-C 9.4 48 CS1-D 9.8 410 DTSC-SL 0.11 80 RSL 0.77 400

TABLE 2.1-3: May 2014 - Discrete Soil Sample Results (mg/kg)

Although the reported arsenic concentrations exceed the referenced DTSC-SL, the reported arsenic levels are indicative of background concentrations for Brentwood. Sample CS1-D exceeds the residential DTSC-SL of 80 mg/kg; therefore, additional site-wide soil sampling was recommended to determine the extent of lead-impacted soil exceeding residential criteria.

2.2 SUPPLEMENTAL SAMPLING AND ANALYSES

On June 2, 2014, ENGEO collected additional soil samples from two depths at 34 locations across the Property, as shown in Figure 4. Soil samples were retrieved within continuous Geoprobe® acetate core liners measuring 2½ feet in length. Upon completion of the soil sampling, the Geoprobe holes were backfilled with the soil cuttings. Soil samples were collected for laboratory analysis by cutting portions of the Geoprobe soil core liners corresponding to the respective desired sampling depths in each location; 0 to 12 inches and 18 to 30 inches.

² USEPA Regional Screening Levels For Resident Soil (RSLs); November 2018.



¹ HERO HHRA Note Number: 3, DTSC Modified Screening Levels For Residential Soil (DTSC-SLs), April 2019.

As described above, two samples were recovered from each Geoprobe location at depths of approximately 0 to 12 inches and 18 to 30 inches below the ground surface. The laboratory was instructed to homogenize the soil within each sample before analyzing. Initially, only the shallow sample from each boring was analyzed while the deeper sample from each location was held by the laboratory pending the initial analysis.

As presented in Table 2.2-1 below, 10 of the 34 samples collected at depths of 0 to 12 inches exhibited concentrations above the applicable DTSC-SL for residential land use (>80 mg/kg). Four samples from 18 to 30 inches were selected for testing. The deeper samples selected for further analysis were below the samples, which reported the four highest lead concentrations. The four deeper samples exhibited lead concentrations below residential screening levels, with the highest concentration at 45 mg/kg.

The previous soil sampling and laboratory analyses indicate that pesticides and arsenic are not COPCs for Site soils; however, lead was detected above residential thresholds. Lead was detected above the residential DTSC-SL in 10 of the 34 soil samples collected from a depth of 0 to 12 inches at the Property. Sample S29, which exhibited a concentration of 81 mg/kg, is only slightly above the screening level and is considered an isolated de minimus condition. Laboratory testing of the samples collected from the 18- to 30-inch depth did not detect lead at concentrations above residential screening levels.

SAMPLE ID	LEAD (mg/kg)	SAMPLE ID	LEAD (mg/kg)
S-1 A	S-1 A 24		160
S-2 A	11	S-20 A*	310
S-3 A	9.9	S-20 B	17
S-4 A	12	S-21 A	210
S-5 A	47	S-22 A*	220
S-6 A	17	S-22 B	10
S-7 A	73	S-23 A	130
S-8 A	11	S-24 A	43
S-9 A	31	S-25 A	13
S-10 A	37	S-26 A	13
S-11 A*	650	S-27 A	22
S-11 B	45	S-28 A	39
S-12 A	110	S-29 A	81
S-13 A	17	S-30 A	78
S-14 A	33	S-31 A	27
S-15 A	16	S-32 A	13
S-16 A	59	S-33 A	19
S-17 A	120	S-34 A	21
S-18 A*	390		
S-18 B	17		

TABLE 2.2-1: Soil Analytical Data

*Deeper samples tested to determine lead concentration at depth Lead concentration above residential limit



2.3 BACKGROUND ARSENIC EVALUATION

In January 2014, ENGEO prepared an *Arsenic Risk Evaluation* for the Miles-Fennel property (Shady Willow Lane, Brentwood, CA) under DTSC oversight (ENVIROSTOR - 60001996).³ This property is located approximately 4,000 feet east of the subject Site.

An initial risk evaluation was conducted for the Miles – Fennel property by Mark Stelljes, Ph.D., Toxicologist (SLR International). The evaluation was prepared in accordance with the following California Environmental Protection Agency (CAL-EPA DTSC) guidance documents:

Department of Toxic Substances Control (DTSC), Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities; February 1997.

Department of Toxic Substances Control (DTSC), Arsenic Strategies Determination of Arsenic Remediation Development of Arsenic Cleanup Goals for Proposed and Existing School Sites. California Environmental Protection Agency, Sacramento, California; March 2007.

The data set consists of 42 soil samples collected from a depth of 1 foot and 14 samples collected from a depth of 2 feet. Arsenic was detected at concentrations between 7.2 mg/kg and 18 mg/kg, with a mean of 12 mg/kg, a standard deviation of 2.8 mg/kg, and a coefficient of variation of 0.23.

The arsenic concentrations were sorted and plotted against cumulative probability. Data from a single population would be expected to appear linear in a cumulative probability plot, while linear discontinuities can indicate the presence of multiple distinct populations. Based on a normal population, there is the presence of an inflection point in the cumulative probability at a concentration of 15 mg/kg. The same data was plotted with cumulative probability displayed on a log scale to expand the upper range of the distribution. In this representation, three distinct linear sections are visible with a linear discontinuity located at a concentration of 14 mg/kg.

At the request of DTSC, an additional background arsenic evaluation was conducted in order to further define the range of local arsenic concentrations in native soils. This information was reported in a revised August 6, 2014 *Arsenic Risk Evaluation*. Soil data was compiled from 13 previous ENGEO projects located within two miles of the Miles – Fennel property. A total of 212 soil samples were evaluated using USEPA methodologies. The background arsenic concentrations ranged from 1.0 to 15 mg/kg, with a mean concentration of 7.7 mg/kg.

Based on the findings of the 2014 Risk Evaluation, the reported arsenic concentrations at the subject Site suggest background levels, with no anthropogenic source.

2.4 NATURE AND EXTENT OF CONTAMINATION

Review of the soil data indicates lead is the only COPC for the Site. Based on the findings of the soil sampling and laboratory testing, the soil impacts appear to be limited to about a 21,000-square-foot area in the west-central portion of the parcel (Figure 5). The depth of the impacted soil is likely limited to 12 to 18 inches below the ground surface, equating to an approximate volume of 800 to 1,200 cubic yards.

³ <u>https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60001996</u>





3.0 REMOVAL ACTION OBJECTIVE AND SOIL CLEANUP LEVELS

Site characterization has revealed the presence of COPCs, specifically lead, above acceptable levels in soil at the Site. The removal action objective (RAO) is to reduce the human health risks associated with the COPCs in Site soil to a level that is acceptable for possible future development.

Based on the RAO, a soil cleanup level was developed that establishes the specific lead concentration that is protective of both human health and the environment. The soil cleanup level has been developed for the Site from: (1) information obtained during characterizations conducted at the Site; and (2) risk management decisions based upon the current and possible future development of the Site. The following is the soil cleanup level that was developed for the Site:

• Lead – 80 mg/kg (DTSC-SL for a residential land use scenario).

4.0 ALTERNATIVE REMEDIAL EVALUATION

The purpose of this Section of the RAW is to identify and screen possible removal action alternatives that may best achieve the RAOs discussed in Section 3.0. The removal action alternatives were screened and evaluated on the basis of their effectiveness, implementability, and cost.

4.1 IDENTIFICATION AND ANALYSIS OF REMOVAL ACTION ALTERNATIVES

The response actions to address the identified COPCs in Site soil include Alternative 1: no further action, Alternative 2: on-site encapsulation with institutional controls, and Alternative 3: excavation and off-site disposal. These response actions are considered the appropriate removal action alternatives for the Site.

4.1.1 Alternative 1 – No Further Action

As required by the DTSC, the No Further Action alternative has been included to provide a baseline for comparisons among other removal alternatives. The No Further Action alternative would not require implementing any measures at the Site, and no costs would be incurred. This action includes no institutional controls, no treatment of soil, and no monitoring.

4.1.2 Alternative 2 – On-Site Encapsulation

This alternative would consist of removing approximately 800 to 1,000 cubic yards of the impacted soil and placing the affected soil within the street sections of a future residential development, below the depth of future utilities. Excavation/encapsulation includes using loaders, backhoes, and/or other appropriate equipment. It should be noted that a development plan has not been prepared for the Site; therefore, the specific location and extent of street sections is not known at this time. This alternative would include the following:

• The area of future street sections would be over-excavated to a sufficient extent to allow for placement of the impacted soils below the depth of any future utilities. A clean soil cap would be placed over the impacted material, below future utilities.



- Following soil excavation, a confirmation sampling would be performed to verify removal of soils exceeding the RAOs.
- A land use covenant would be executed between DTSC and the property owner and recorded to ensure that the cap integrity is maintained and that future uses of the property are consistent with the operation and maintenance of the cap. An operation and maintenance plan would be submitted and approved by DTSC.
- An operation and maintenance agreement signed with DTSC specifying the operation and maintenance requirements and providing financial assurance for future operation and maintenance of the cap.

4.1.3 Alternative 3 – Excavation/Off-Site Disposal

The excavation/off-site disposal alternative would consist of removing and transporting impacted soil to an appropriate, permitted off-site facility for disposal. Excavation includes using loaders, backhoes, and/or other appropriate equipment. This alternative would include the following:

- Excavation of the estimated 800 to 1,000 cubic yards of lead-impacted soil.
- Stockpiling of the excavated soil for landfill profiling.
- Transport of the soil to an appropriate permitted disposal facility, an offsite property where reuse may be potentially considered, or potential reuse on-Site, depending on lead concentrations.
- Collection of confirmation soil samples across the excavation area to verify the removal of lead-impacted soil.
- Since no soils exceeding RAOs would remain on-Site, a land use covenant would not be required.

4.2 EVALUATION CRITERIA

Each removal action alternative was independently analyzed without consideration to the other alternatives. Each of the removal action alternatives is screened based on effectiveness, implementability, and cost.

4.2.1 Effectiveness

In the effectiveness evaluation, the following factors are considered:

- Overall Protection of Human Health and the Environment This criterion evaluates whether the removal alternative provides adequate protection to human health and the environment and is able to meet the Site's RAOs.
- Compliance with ARARs/TBCs This criterion evaluates the ability of the removal alternative to comply with ARARs and TBCs.
- Short-Term Effectiveness This criterion evaluates the effects of the removal alternative during the construction and implementation phase until removal objectives are met. It



accounts for the protection of workers and the community during removal activities and environmental impacts from implementing the removal action.

- Long-Term Effectiveness and Permanence This criterion addresses issues related to the management of residual risk remaining on site after a removal action has been performed and has met it objectives. The primary focus is on the controls that may be required to manage risk posed by treatment residuals and/or untreated wastes.
- *Reduction of Toxicity, Mobility, or Volume* This criterion evaluates whether the removal technology employed results in significant reduction in toxicity, mobility, or volume of the hazardous substances.

4.2.2 Implementability

This criterion evaluates the technical and administrative feasibility of implementing the alternative, as well as the availability of the necessary equipment and services. This includes the ability to design and perform a removal alternative, ability to obtain services and equipment, ability to monitor the performance and effectiveness of technologies, and the ability to obtain necessary permits and approvals from agencies, and acceptance by the State and the community.

4.2.3 Cost

This criterion assesses the relative cost of each technology based on estimated fixed capital for construction or initial implementation and ongoing operational and maintenance costs. The actual costs will depend on true labor and material cost, competitive market conditions, final project scope, and the implementation schedule.

4.3 ANALYSIS OF REMOVAL ACTION ALTERNATIVES

Each alternative is discussed in the following sections.

4.3.1 Alternative 1 – No Further Action

The No Further Action alternative would not require implementing any measures at the Site, and no costs would be incurred. Consequently, there would be no activities that would disturb Site soil, and, therefore, no short-term risks to Site workers or the community, as a result of implementing this alternative.

However, under the No Further Action alternative, the impacts due to the presence of elevated lead concentrations in soil would not be addressed and there would be no reduction in the potential risks. This alternative, therefore, does not meet the effectiveness criterion. As a result, acceptance by the State and the community would be unobtainable.

4.3.2 Alternative 2 – On-Site Encapsulation

Effectiveness

Potential short-term risks to on-site workers, public health, and the environment could result from dust or particulates that may be generated during excavation, soil handling, and encapsulation activities. These risks could be mitigated using personal protective equipment for



on-site workers and engineering controls, such as dust suppression and monitoring, and additional traffic and equipment operating safety procedures, for protection of the surrounding community.

With regard to long-term effectiveness, on-site encapsulation would not lessen toxicity or volume of the COPCs, but would limit or eliminate direct contact for future residents and workers. Under the operation and maintenance agreement, required as part of this alternative, periodic inspections would be required for settlement, cracking, ponding of liquids, erosion, and naturally occurring invasion by deep-rooted vegetation. On-site encapsulation would also require long-term inspection and maintenance and a land use covenant to provide long-term effectiveness, and to ensure that the integrity of the cap is not compromised by land use activities.

Implementability

Encapsulation is a relatively simple technology that are readily implemented. As COPCs would remain on site, obtaining permits and regulatory approval is more difficult. In addition, community acceptance for this alternative may be more difficult since the COPCs would remain on site. Encapsulation may require "triple" handling of soil and a longer period of time (one to two weeks) to complete the encapsulation. This alternative would result in the potential for a greater degree of dust generation and noise from operations.

Cost

Containment technologies typically involve low to moderate costs. Based on previous estimates, costs for this alternative are in the range of \$80 per cubic yard. Total project cost for Alternative 2, based on 1,000 cubic yards, would be approximately \$238,000, including additional in future O&M costs (See Section 4.4.3 Table).

4.3.3 Alternative 3 – Soil Excavation/Off-Site Disposal

Effectiveness

Potential short-term risks to on-site workers, public health, and the environment could result from dust or particulates that may be generated during excavation and soil handling activities. These risks could be reduced using personal protective equipment for on-site workers and engineering controls, such as dust suppression and monitoring, and additional traffic and equipment operating safety procedures, for protection of the surrounding community. Excavation and disposal would remove the COPCs from the Site, and therefore, eliminates the long-term risks and accomplishes the RAO.

Implementability

Excavation/off-site disposal is a well-proven, readily implementable technology that is a common method for cleaning up contaminated sites. It is a relatively simple process, with proven results. Equipment and labor required to implement this alternative are uncomplicated and readily available. The shallow depths of the identified contamination make excavation readily implementable. It is anticipated that regulatory approval would be granted since it is a proven and permanent technology. Acceptance by the State and the community for this alternative is considered high. Alternative three will result in greater transport truck traffic to and from the Site as soil loads will be transported from the Site to landfills.



Cost

The estimated cost for excavation, transportation, and disposal of the impacted soils is approximately \$102 per cubic yard. This estimate includes permitting, excavation/removal, confirmation sampling/reporting, transportation, disposal at an approved off-site disposal facility, and import fill. The total cost for implementation of Alternative 3, based on 1,000 cubic yards, is \$151,000.

4.4 COMPARATIVE ANALYSIS OF REMOVAL ACTION ALTERNATIVES

A comparative analysis was conducted to identify the advantages and disadvantages of each removal alternative. The comparative analysis of the removal alternatives was conducted to address the criteria listed in Section 4.2.

4.4.1 Effectiveness

Under the no further action alternative, the impacts associated with the site-specific COPCs would not be addressed. Consequently, there would be no reduction in the potential risks and the RAO would not be achieved. The no further action and containment/capping-in-place alternatives do not involve activities that would disturb the impacted soil. Therefore, there would be no short-term risks to on-site workers or the community as a result of implementing these alternatives. Alternatives 2 and 3 would require removing, handling, and transporting the impacted soil, resulting in higher short-term exposure risks. However, it is expected that these risks can be sufficiently mitigated through site control measures.

Alternatives 2 and 3 reduce or eliminate, respectively, potential exposure to COPCs, and therefore, accomplish the RAO. Once implemented, the encapsulation alternative presented in Alternative 2 would require long-term monitoring to ensure its effectiveness. In addition, future changes in land use could disturb the soil. The excavation/off-site disposal alternative present in Alternative 3 would remove the COPCs from the Site, and would not require any further management or site controls.

Based upon this evaluation, Alternative 3 is favored is favored under this criterion.

4.4.2 Implementability

No measures would be implemented for the no further action alternative. Alternatives 2 and 3 are both well-proven, readily implementable technologies. However, Alternative 2 requires additional handling of soil, and therefore a potential increase in dust and noise generation, and also requires a long-term Operations and Maintenance program. Alternative 3 will result in greater impacts to transportation/traffic; however, the impacts are of short duration and can be effectively managed to minimize disturbances. Accordingly, Alternative 3 is favored by this criterion.

4.4.3 Cost Effectiveness

A summary of estimated costs to implement the proposed alternatives is presented in the following table. Costs are based on encapsulation or excavation/off-site disposal of 1,000 yards (1,500 tons) of soil.



ESTIMATE	D COSTS FOR F	REMOVAL ALTERNA	TIVES				
SI	JMMARY OF ES	TIMATED COSTS					
	Removal Action Alternative						
Costs	Alternative 1 No Further Action	Alternative 2 Encapsulation	Alternative 3 Excavation and Disposal				
Direct Capital Costs							
Equipment Costs	0	\$75,000	\$36,000				
Disposal &Transport Costs	0	0	\$80,000				
Backfill & Compaction Costs	0	\$30,000	0				
Indirect Capital Costs							
Engineering and Design Expenses	0	\$40,000	\$30,000				
Oversight and Permit Costs	0	\$8,000	\$5,000				
Annual Post Removal Actio	n Site Control C	osts ⁴					
Operational Costs	0	\$60,000	0				
Maintenance Costs	0	\$25,000	0				
Total	0	\$238,000	\$151,000				

4.5 RECOMMENDED REMOVAL ACTION ALTERNATIVE

Based on the comparative analysis described in Section 4.4, Alternative 3, Excavation and Offsite Disposal is the preferred and recommended removal action alternative for addressing the Site.

5.0 REMOVAL ACTION IMPLEMENTATION

5.1 PERMITTING AND SITE PREPARATION

The removal action will be conducted in accordance with all applicable California Code of Regulations, including Cal/OSHA regulations. Prior to implementation of the RAW, a grading permit will be obtained with the City of Brentwood. A hauling plan/permit will also be submitted to the City of Brentwood for approval.

5.2 EXCAVATION METHODOLOGY

Excavation work will be conducted by a licensed grading contractor with current hazardous material certifications. Work activities will be conducted Monday – Friday between 7:00 AM and 6:00 PM. Excavations will be performed using a combination of backhoes, track-mounted excavators and loaders. The approximate extent of the proposed excavation areas is shown on

⁴ Based on 30 year O&M



Figure 5. Since the excavations will be less than 18 inches in depth, shoring and/or sloping is not anticipated.

The excavated soil will be stockpiled in approximate 100-cubic-yard volumes outside of the planned excavation area. As necessary, soil stockpiles will be covered with 10-mil plastic sheeting and secured to prevent dust or runoff during storm events. Stockpiles will be managed in accordance with the Dust Control Plan (Appendix A).

Details regarding transportation and disposal, including landfill locations and trucking routes are provided in the Transportation Plan (Appendix B).

6.0 SAMPLING AND ANALYSIS PLAN

The proposed removal action will require the collection and analysis of samples to confirm the removal of impacted soil and to determine the proper waste classification of excavated soils for disposal purposes. All sampling will be conducted in general accordance with the Sampling and Analysis Plan (Appendix C). In the following sections, confirmation sampling and waste disposal classification sampling are discussed.

6.1 CONFIRMATION SAMPLING OF EXCAVATED AREAS

The affected area of the Site that exhibits lead concentrations in excess of the soil cleanup levels will be divided into approximately 35 grids, 25 feet by 25 feet (625 square feet). Figure 5 depicts the area proposed for initial excavation.

The grids with affected soils will initially be excavated to a depth of 12 inches. Following excavation, each of the excavated grids will be sampled by the collection of one discrete soil sample from the center-base of the grid. The grid samples will all be analyzed for total lead. Grids with confirmation sampling concentrations exceeding the soil cleanup levels will be re-excavated an additional 6 inches and re-sampled. Excavation will proceed until the soil cleanup levels are achieved. All excavated soil will be managed as discussed in the Excavation Methodology section presented above. Grids with confirmation samples below the soil cleanup levels will be considered complete with no further excavation conducted.

6.2 SOIL STOCKPILE CLASSIFICATION

The excavated soil will be stockpiled in approximate 100 cubic yard volumes on Site. The soil stockpiles will be profiled for landfill disposal on a one 4-point composite sample per 100 cubic yard basis. The specific laboratory profile will be determined prior to excavation activities; however, it is anticipated the stockpile samples will be analyzed for organochlorine pesticides (EPA 8081) and CAM-17 metals. If any constituents exceed 10 times the Soluble Threshold Limit Concentration (STLC), a waste extraction test (WET) will be conducted. The following table details the disposal/reuse criteria for the stockpiled soil:

CATEGORY	TOTAL LEAD (TTLC)	SOLUBLE LEAD (STLC)	DISPOSAL/REUSE CRITERIA	
А	<50 mg/kg N/A		On site reuse	
В	50 mg/kg< sample < 80 mg/kg	<5.0 mg/l	On site reuse	

TABLE 5.2-1: Disposal/Reuse Criteria



С	50 mg/kg< sample < 80 mg/kg	>5.0 mg/l	Class I Landfill	
D	>80 mg/kg	>5.0 mg/l	Class I Landfill	
E	>80 mg/kg	<5.0 mg/l	Class II Landfill	

As noted in the Transportation Plan (Appendix B), it is anticipated that soil categorized as Class II non-hazardous waste will be disposed of at the Vasco Road Landfill in Livermore, California. Class I hazardous waste and/or RCRA waste will be disposed of at the Clean Harbors waste disposal facility in Buttonwillow, California.

7.0 HEALTH AND SAFETY PLAN

All contractors will be responsible for operating in accordance with the most current requirements of State and Federal Standards for Hazardous Waste Operations and Emergency Response (Cal. Code Regs., Title 8, Section 5192; 29 CFR 1910.120). Onsite personnel are responsible for operating in accordance with all applicable regulations of the Occupational Safety and Health Administration (OSHA) outlined in the State General Industry and Construction Safety Orders (Cal. Code Regs., tit. 8) and Federal Construction Industry Standards (29 CFR 1910 and 29 CFR 1926), as well as other applicable federal, state, and local laws and regulations. All personnel shall operate in compliance with all California OSHA requirements.

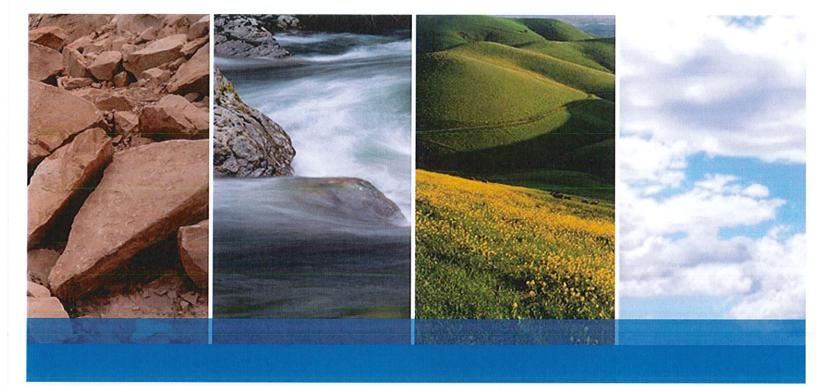
In addition, California OSHA's Construction Safety Orders (especially Cal. Code Regs., Title 8, Sections 1539 and 1541) will be followed as appropriate. A site-specific Health and Safety Plan (HASP) has been prepared for the Site in accordance with current health and safety standards as specified by the federal and California OSHAs and submitted to DTSC prior to initiation of field work. The HASP is presented in Appendix D.

The provisions of the HASP are mandatory for all personnel who are at the Site. The contractor and its subcontractors performing fieldwork in association with this RAW will either adopt and abide by the HASP or shall develop their own safety plans which, at a minimum, meet the requirements of the HASP. All onsite personnel shall read the HASP and sign the "Plan Acceptance Form" (Attachment A of the HASP) before starting Site activities.

8.0 **REPORTING**

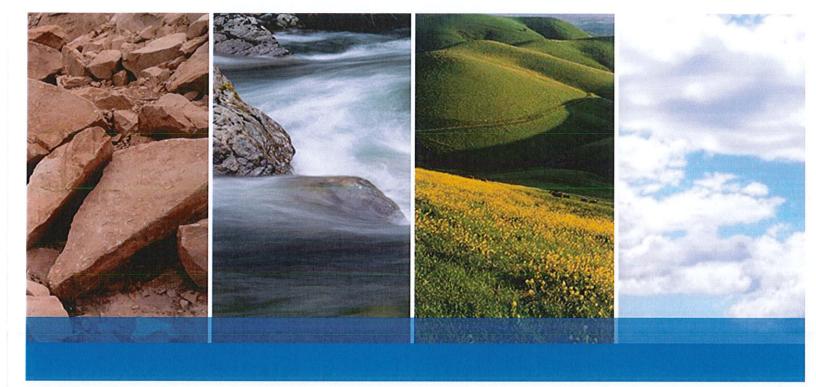
Upon completion of soil excavation, disposal and confirmation sampling, we will prepare a final Removal Action Completion Report documenting all Site activities. The report will provide all compiled laboratory data and disposal manifests for the project. The report will be signed by a California Professional Engineer and/or Professional Geologist.





FIGURES

FIGURE 1: Vicinity Map FIGURE 2: Assessor's Parcel Map FIGURE 3: Site Plan FIGURE 4: Lead Sample Location Plan FIGURE 5: Proposed Excavation Area



APPENDIX A

DUST CONTROL PLAN

DUST CONTROL PLAN

This plan details potential dust control measures that the Contractor will implement to minimize dust emissions during construction activities at the Site. Dust emissions may result from activities during removal action and from wind erosion. These sources are most effectively controlled using wet suppression. A high wind threshold will also be established to minimize wind erosion during extreme meteorological conditions. Stockpiles will be covered unless being loaded, and water will be sprayed on areas that have already been excavated and are subject to wind erosion. Dust control measures will be performed in accordance with applicable Bay Area Air Quality Management District (BAAQMD) standards.

Sources of Emissions

<u>Construction Traffic</u> – Movement of construction equipment around the construction area is capable of creating construction emissions in excavated or cleared areas. There is also the potential for vehicular traffic on paved or unpaved roads and parking lots to produce construction emissions.

<u>Excavation</u> – Excavation activities and backfilling operations can produce both fugitive dust and vehicle emissions.

<u>Off haul</u> – Removal of stockpiled soil from the Site for disposal offsite can produce both fugitive dust and vehicle emissions.

<u>Material Stockpiles and Inactive Areas</u> – Stockpiles of soil generated from excavation activities and exposed areas where soil has been disturbed may contribute to windborne dust emissions.

Dust Mitigation

This section presents methods to control sources of fugitive dust generated by soil disturbance or excavation, such as:

- Dust entrained during onsite travel on paved and unpaved surfaces.
- Dust entrained during excavation, materials handling, processing, and backfilling at the construction Site.
- Dust entrained during aggregate and soil stockpiling, loading, and unloading operations.
- Wind erosion of areas disturbed during construction activities.

The main mechanism for the control of fugitive dust emissions from construction activities and wind erosion is by watering, which leads to the formation of a surface crust to reduce the available reservoir of dust. The effectiveness of wet suppression is dependent on the type of activities occurring, the frequency of watering, and the meteorological conditions.

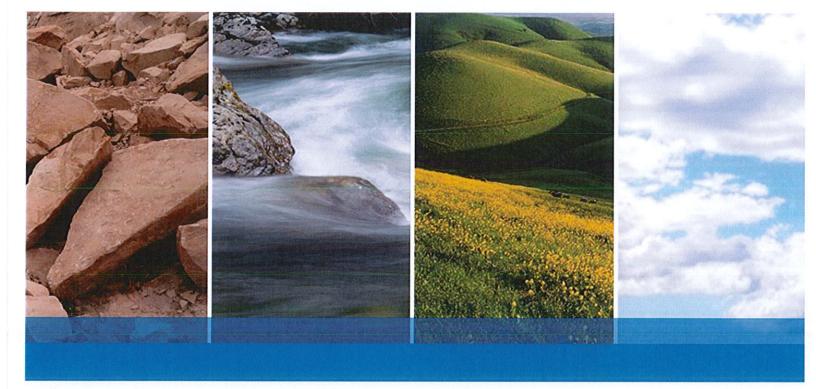
Stockpile and Vehicle Management

As necessary, based on meteorological and Site conditions, stockpiles will be covered with 10-mil plastic sheeting. All stockpiles will be placed on 10-mil plastic sheeting. All vehicles onsite will be



limited to a maximum speed of 5 mph. Prior to departure from the Site to the surface streets, all vehicles will be checked for material residue and cleaned if necessary. The public paved roadways surrounding the Site will be checked for any material possibly tracked out, despite mitigation efforts. The Contractor will take all reasonable measures to clean the roadways of this material within an hour of observation.





APPENDIX B

TRANSPORTATION PLAN

CHARACTERISTIC AND DESTINATION OF SOIL TO BE TRANSPORTED

Elevated levels of lead have been detected in Site soils. Based on the available data, the majority of the excavated soil is anticipated to be categorized as Class II non-hazardous waste or designated waste.

If California or RCRA, hazardous waste is identified from stockpile analyses as a hazardous waste generator. Cyrus Land Investments, LLC, will secure an EPA Identification Number from DTSC for proper management of the hazardous waste. Compliance with the DTSC requirements of hazardous waste generation, temporary onsite storage, transportation and disposal, is required. Any shipment of hazardous wastes in California will be transported by a registered hazardous waste hauler under a uniform hazardous waste manifest. Land ban requirements will also be followed, as necessary. Any shipment of non-hazardous waste in California will be transported under a non-hazardous waste manifest or bill-of-lading.

Soils classified as Class II waste will likely be transported to the Vasco Road Landfill or Altamont Landfill for disposal. These disposal facilities are licensed Class II landfills and are located at the following addresses:

Vasco Road Sanitary Landfill Republic Services of California I, LLC 4001 Vasco Road Livermore, CA 94550 EPA ID#: FRS 110009544671 Phone: (925) 447-0491

Altamont Landfill & Resource Recovery 10840 Altamont Pass Road Livermore CA, 94550 EPA ID #: FRS 110000831404 Telephone: (925) 449-6349

If needed, soils classified as Class I Title 22 hazardous waste or RCRA hazardous waste will likely be transported to the following facility:

Clean Harbors Buttonwillow, LLC 2500 W Lokern Rd Buttonwillow, California 93206 EPA ID # FRC 110000500912 Phone: 661-762-6200

Truck Transportation

It is anticipated that work will require approximately 2 weeks for completion. Up to approximately 1,000 cubic yards (1,500 tons) of soil will be removed from the Site. Assuming each truck carries 18 tons, up to 84 trucks will be needed to transport the impacted soil. All permitted disposal facilities operate a certified weight station at their facility. As such, each truck will be weighed before offloading its payload. Weight tickets or bills of lading will be provided to the removal action subcontractor after all the soil has been shipped offsite. A hauling plan/permit will be submitted to the City of Brentwood prior to work activities. Truck routes will be approved



by the City of Brentwood prior to work activities. Below is a summary of the truck route from the Site to the disposal facilities listed above:

Vasco Road Landfill (22 miles)

This truck route is illustrated in Figure 1.

1.	Head east on Lone Tree Way toward Gann St	0.02 mi
2.	Make a U-turn at Gann St onto Lone Tree Way	1.4 mi
3.	Merge onto CA-4E via the ramp on the left toward Stockton	5.1 mi
	Stay straight to go onto Vasco Rd	
	Make a U-turn onto N. Vasco Rd	
	1001 N Vacas Dd is an the right	

6. 4001 N. Vasco Rd is on the right

Altamont Landfill (32 miles)

This truck route is illustrated in Figure 2.

1.	Head east on Lone Tree Way toward Gann St	0.02 mi
2.	Make a U-turn at Gann St onto Lone Tree Way	1.4 mi
	Merge onto CA-4E via the ramp on the left toward Stockton	
4.	Stay straight to go onto Vasco Rd	17.8 mi
5.	Merge onto I-580 E via the ramp on the left	3.7 mi
6.	Take exit 59 toward Flynn Rd N	0.2 mi
7.	Keep right to take the ramp toward Flynn Rd N	0.05 mi
8.	Keep right at the fork in the ramp	0.03 mi
	Turn right onto Carroll St	
	Turn right onto Altamont Pass Rd	
	10840 Altamont Pass Rd is on the left	

Clean Harbors, Buttonwillow (228 miles)

This truck route is illustrated in Figure 3.

1. Head east on Lone Tree Way toward Gann St	1.3 mi
2. Turn right onto Brentwood Blvd	5.9 mi
3. Brentwood Blvd becomes Byron Hwy	
4. Byron Hwy becomes W Byron Rd/County Hwy-J4	
5. Turn slight left onto W Grant Line Rd/County Hwy-J4. Continue W	7.3 mi
6. Enter roundabout and take 2 nd exit onto County Hwy-J4/Kasson Rd	0.5 mi
7. Merge onto I-5 S	193.4 mi
8. Take exit 263 toward Buttonwillow/McKittrick	0.4 mi
9. Merge onto Buttonwillow Dr	3.7 mi
10. Turn right onto Front St/CA-58W	
11. Destination is 0.1 miles past N Main St	

Loading and transportation will be conducted between 7:00 am and 6:00 pm, Monday through Friday, unless directed otherwise by the City of Brentwood. In the event traffic conditions or road repairs prevent the primary designated routes, alternate routes will developed prior to transportation activities. These alternate routes will be approved by the City of Brentwood prior to work activities.



Before leaving the Site, each truck driver will be instructed to notify the site manager. Each truck driver will be provided with a Uniform Hazardous Waste Manifest, Non-Hazardous Waste Manifest, or bill-of-lading and the cellular phone number for the site manager. It will be the responsibility of the site manager to notify DTSC and Cyrus of any unforeseen incidences. Each truck driver will be instructed to use the freeway Call Box System (if available), a cellular telephone, and/or their radio dispatch system to call for roadside assistance and report roadside emergencies.

Site Traffic Control

Truck ingress and egress shall be approved by the City. A flag person will be onsite to assist the truck drivers to safely drive on and off the Site. Transportation will be coordinated in such a manner that at any given time, onsite trucks will be in communication with the Site trucking coordinator. In addition, all vehicles will be required to maintain slow speeds (i.e., less than 5 mph) for safety and for dust control purposes.

Prior to exiting the Site, the vehicle will be swept to remove any extra soil from areas not covered or protected. This cleanup/decontamination area will be set up as close to the loading area as possible to minimize spreading the impacted soil. Prior to the offsite transport, the Site manager will be responsible for inspecting each truck to ensure that the payloads are adequately covered, the trucks are cleaned of excess soil and properly placarded, and that the truck's manifest or bill-of-lading has been completed and signed by the generator (or its agent) and the transporter. As the trucks leave the Site, the flag person will assist the truck drivers so that they can safely merge with traffic onto Lone Tree Way.

Record Keeping

The removal action contractor will be responsible for maintaining a field logbook, which will serve to document observations, personnel onsite, equipment arrival and departure times, and other important project information. Logbook entries will be complete and accurate enough to permit reconstruction of field activities. Logbooks will be bound, with consecutively numbered pages and each page will indicate the date and time of the entry. All entries will be legible, written in black or blue ink, and signed by the author. Language will be factual and objective. If an error is made, corrections will be made by crossing a line through the error and entering the correct information. Corrections will be dated and initialed.

In the event off-haul soil material is classified as hazardous waste under California or EPA regulations, the Uniform Hazardous Waste Manifest (hazardous waste manifest) form will be used to track the movement of soil from the point of generation to the point of ultimate disposal. The hazardous waste manifests will include the following information:

- Name and address of the generator, transporter, and the destination facility.
- United States Department of Transportation description of the waste being transported and any associated hazards.
- Waste quantity.
- Name and phone number of a contact in case of an emergency.
- EPA Hazardous Waste Generator Number.
- Other information required either by the EPA and/or the DTSC.

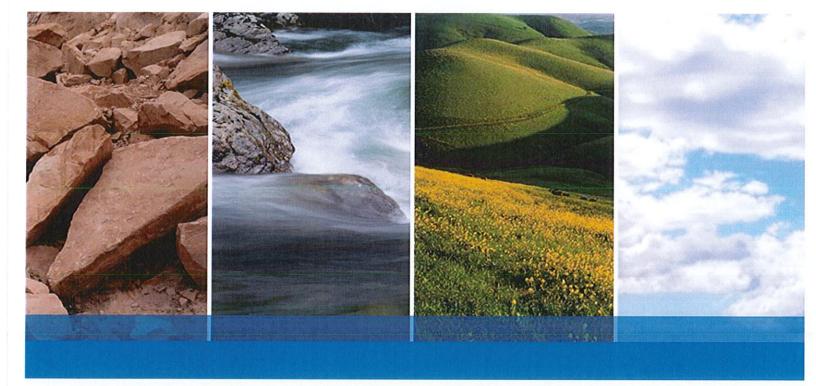


Any soil that is profiled as non-hazardous and sent offsite for disposal will be documented using a Non-Hazardous Waste Manifest or Bill-of-Lading form. At a minimum, this form will include the following information:

- Generator name and address
- Transportation company
- Accepting facility name and address
- Waste shipping name and description
- Quantity shipped

Prior to transporting the excavated soil offsite, an authorized representative of Cyrus will sign each hazardous and/or non-hazardous waste manifest. The removal action Site manager will maintain one copy of all hazardous and/or non-hazardous waste manifests on Site.





APPENDIX C

SAMPLING AND ANALYSIS PLAN

INTRODUCTION

The purpose of this Sampling and Analysis Plan (SAP) is to provide field sampling procedures and data gathering methods that will be used to support the Removal Action Work Plan (RAW) prepared for the property located at 7281 Lone Tree Way in Brentwood, California (Site). This SAP will be used by field personnel as a reference for sampling and analysis during the remedial activities.

SAMPLING OBJECTIVES

The proposed removal action will require the collection and analysis of samples to confirm the removal of lead-impacted soil from the northern portion of the Site. Sampling activities will include the following, which are discussed in detail in subsequent sections of this SAP.

Post-Excavation Confirmation Sampling

The objective of this task is to determine whether all soil above the cleanup level has been removed after the excavation of the top 12 inches of soil. The proposed cleanup level is discussed in Section 3.0 of the Remedial Action Work Plan (RAW).

Soil Stockpile Characterization and Offsite Disposal

The objective of stockpile sampling is to characterize the excavated materials and assist in making a determination of how these materials should be managed and disposed. It is anticipated that the excavated soils will placed into stockpiles. The soil stockpiles will be managed, sampled, and characterized in accordance with this SAP, along with the main document and Appendix B of the RAW. Additional analytical testing may be required to satisfy the profiling and waste acceptance criteria of the receiving facility. Transportation activities will be conducted in accordance with Appendix B of the RAW.

SAMPLE LOCATIONS AND FREQUENCY

This section discusses the locations and frequency of soil samples that will be collected for analytical testing.

Post Excavation Confirmation Sampling

The affected area of the Site that exhibits lead concentrations in excess of the cleanup level will be divided into approximately 35 grids, 25 feet by 25 feet (625 square feet). Figure 5 depicts the area proposed for excavation.

The grids with affected soils will initially be excavated to a depth of 12 inches. Following excavation, each of the excavated grids will be sampled by the collection of one discrete soil sample from the center-base of the grid. The grid samples will all be analyzed for total lead (EPA 6010B). Grids with confirmation sampling concentrations exceeding the soil cleanup levels will be re-excavated an additional 6 inches and re-sampled. Excavation will proceed until the soil cleanup levels are achieved. All excavated soil will be managed in accordance with the main document and Appendix B of the RAW. Grids with confirmation samples below the soil cleanup levels will be considered complete with no further excavation conducted.



Soil Stockpile Sampling

Impacted soils will be excavated and placed in approximate 100-cubic-yard stockpiles onsite. The stockpiles will be placed on 10-mil plastic sheeting. As necessary, the soil stockpiles will be covered with 10-mil plastic sheeting and secured to prevent dust or runoff during storm events. Appropriate dust control and stormwater best management practices (BMPs) will be implemented during the soil mitigation activities.

The specific laboratory profile will be determined prior to excavation activities; however, it is anticipated as a minimum, the stockpile samples will be analyzed for pesticides (OCPs) (EPA Method 8081A) and CAM 17 metals (EPA Method 6010/6020). Samples will be collected at an approximate density of one 4-point composite sample per 100 cubic yards. The soil would either be disposed or reused onsite if concentrations are below the Site cleanup level as discussed in the RAW document.

SAMPLING EQUIPMENT AND PROCEDURES

This section describes sampling equipment and procedures associated with post-excavation confirmation sampling and stockpile soil sampling. This section also includes a discussion of equipment blank sampling and decontamination procedures for sampling equipment.

General Procedures

A licensed contractor will be retained to excavate approximately 800 to 1,000 cubic yards of soil from the top 12 inches of the study area. Onsite workers will possess OSHA HAZWOPER training (24/40 hour).

Post-Excavation Confirmation and Stockpile Sampling

Confirmation and stockpile soil samples associated with the excavation will be sampled by following the sampling procedures:

- Obtain one 4-ounce laboratory-supplied sampling jar.
- Put on a new, clean, and chemical-resistant pair of disposable gloves.
- Completely fill the jar with soil.
- Place the samples in a cooler maintained at 4 degrees Celsius (C^o) with ice.
- Samples will be transported to the laboratory under a chain-of-custody documentation as discussed in below.

Analytical Test Method

The confirmation and stockpile samples will be tested for the following:

SOIL-EXCAVATION CONFIRMATION					
Parameter	Preservative	Holding Time	EPA Method #	Container	
Lead	4°C	6 months	6010B	4-ounce jar	



SOIL STOCKPILE					
Parameter	Preservative	Holding Time	EPA Method #	Container	
CAM-17 Metals	4°C	6 months	6010/6020	4-ounce jar	
Organochlorine Pesticides	4°C	14 days	8081A	4-ounce jar	

SAMPLE LABELING, DELIVERY, AND CHAIN-OF-CUSTODY

This section describes how samples will be labeled, picked up, delivered, and tracked.

Sample Labeling

Sample labels will be completed using indelible, black ink, and affixed to each sample container. Sample containers will be placed into resealable plastic bags to protect the sample from moisture during transportation to the laboratory. Each sample container will be labeled at a minimum with the following:

- Unique sample identification number
- Sample collection date (month/day/year)
- Time of collection (24-hour clock)
- Project number
- Sampler initials
- Analyses to be performed; and preservation, if any

Sample Delivery

This section applies to samples that will be picked up by the analytical testing laboratory or samples delivered to the offsite analytical laboratory. Samples may be picked up in the field or at the Field Geologist/Engineer's office by the analytical testing laboratory. The soil samples will be maintained at 4° Celsius. The chain-of-custody documentation will be completed and signed by the laboratory- assigned courier. The samples may then be relinquished to the courier for transportation to the laboratory. Each cooler will contain a temperature blank. A temperature blank is a sample container filled with tap water and stored in the cooler during sample collection and transportation. The laboratory will record the temperature of the temperature blank immediately upon receipt of the samples.

Chain-of-Custody

A chain-of-custody is a vital tool for tracking samples and is a written record of sample possession from the time the sample is collected until it is analyzed. The following will be recorded on the chain-of-custody forms:

- Project name
- Project location
- Project number



- Project contact
- Client
- Project Manager
- Sample identification
- Date and time sample was collected
- Sample type (soil, wastewater etc.)
- Number of sample containers
- Required analytical test methods
- Remarks/observations specific to the sample
- Number of samples to be relinquished to the analytical laboratory
- Transfer signatures associated with relinquishing samples (the sampler will initiate the chain-of-custody procedure)
- Courier/laboratory representative signature (for commercial carrier, record air bill number) Date/time of custody transfers
- Comments regarding the condition of the samples, (e.g., cooled with ice, etc.)
- Additional comments
- Written request for electronic file for all samples analyzed
- Information regarding sample storage/disposal
- Turn-around-time requirement; Sampler signature
- Courier signature

SITE MANAGEMENT AND RECORD KEEPING

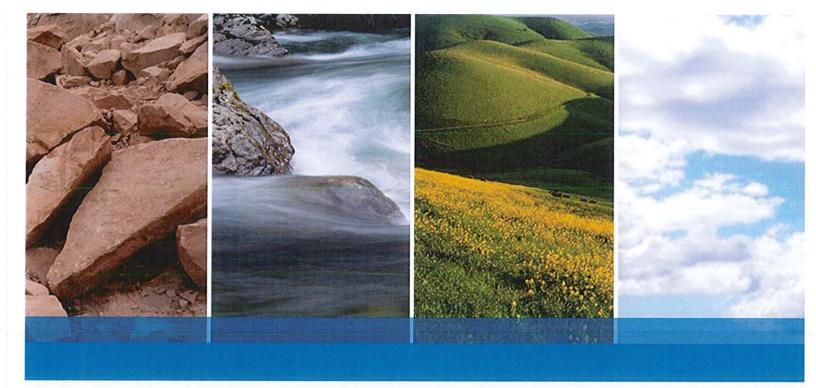
Sampling information will be recorded on chain-of-custody forms, in a dedicated field logbook, and on the appropriate excavation or stockpile map/plan. These documents will be completed in the field at the time of sample collection. Entries will be legible and recorded in indelible black ink. A dedicated bound field logbook with consecutively numbered pages will be assigned to this project. If it is necessary to transfer the logbook to another person, the person relinquishing the logbook will sign and date the last page used and the person receiving the logbook will sign and date the next page to be used. At a minimum, the logbook will contain the following information:

- Project name and location.
- Date and time of entries.
- Personnel in attendance, including any visitors to the Site; General weather conditions.
- Work performed on a daily basis.
- Field observations.
- Sampling information (including sample identification, sample location, sample description/type, and analytical testing).



- Field measurements data (including air monitoring results, instrument calibration records, and problems, if encountered).
- Descriptions of deviations from the SAP, if applicable; Problems encountered and corrective action taken; QC-related activities and identification of field QC samples.
- Detailed record of oral and/or written requests by the regulatory agencies, client, subcontractor.
- Any other events that may affect the sampling and analyses.





APPENDIX D

QUALITY ASSURANCE PROJECT PLAN

INTRODUCTION

ENGEO prepared this Quality Assurance Project Plan (QAPP) to provide Quality Assurance (QA) and Quality Control (QC) procedures for the data collected during implementation of the Removal Action Work Plan (RAW) at the property located at 7281 Lone Tree Way in Brentwood, California (Site). The QAPP outlines the project organization and responsibilities with respect to the site work and provides procedures and methodologies to ensure that the proposed field and laboratory activities generate reliable data.

PROJECT DESCRIPTION

The Site is located at 7281 Lone Tree Way in Brentwood, California. The Site is approximately 2.96 acres in area and is identified by Assessor's Parcel Number (APN) 018-080-022. The Site currently consists of undeveloped fallow land. Review of historical records indicates that the Site had been occupied by residential structures between 1949 and 2003. Review of historical records indicates that structures were demolished in 2003 and the Site has been undeveloped since. Historical aerial photographs indicate a portion of the parcel consisted of orchards.

PROJECT TEAM AND RESPONSIBILITIES

The following section provides a description of the organizational structure and responsibilities of the individual positions for this project.

ENGEO

ENGEO is the consulting firm for Cyrus Land Investments, LLC, and is responsible for implementing the investigation and reporting described in the RAW. The project management team is comprised of the Project Manager (PM), Project Field Manager, QA Manager and Site Safety Manager. Roles and responsibilities of the ENGEO management team are presented as follows.

Project Manager— Shawn Munger, CHG

The Project Manger will hold overall responsibility for technical and quality-related project matters. The Project Manager will be responsible for committing the necessary resources of ENGEO for the timely completion of the project tasks. Final decisions on recommendations, personnel assignments, and the submittal of final reports to DTSC will be made by the Project Manager. All of the documents prepared by ENGEO will be reviewed and signed by the Project Manager.

Project Field Manager — Robert Peck

The Project Field Manager will be responsible for managing the field personnel and ensuring that field activities are completed pursuant to the work plan. The Project Field Manager will be responsible for day-to-day coordination of field activities, including the coordination of subcontractors. The Project Field Manager will schedule pick up or delivery of samples to the appropriate analytical laboratory.



Quality Assurance Manager — Jeff Adams, PE

The Quality Assurance Manager will work with the Project Field Manager to ensure that field activities are carried out in compliance with the QAPP. The Quality Assurance Manager shall approve QA and technical procedures and deliverables from the field and the laboratory.

Site Health and Safety Manager — Robert Peck

The Site Health and Safety Manager will ensure that requirements specified in the Health and Safety Plan are being met.

Laboratory Subcontractors

An offsite laboratory will be utilized for chemical analysis of media and waste materials. The laboratory will be responsible for providing data subject to their own QAPP as well as this QAPP and will designate a Laboratory Quality Assurance Manager. The Laboratory Quality Assurance Manager will review laboratory QA/QC reports, identify problems, and ensure the proper use maintenance, and storage of analytical equipment. Pursuant to California Health and Safety Code Section 25198, all subcontractor laboratories will be certified by the State of California Department of Health Services under the Environmental Laboratory Accreditation Program (NELAP) for the requested analyses. The Laboratory Quality Assurance Manager will report to the Project Field Manager.

Training

All personnel will be trained and qualified to perform the assigned tasks and will have completed the necessary safety training.

DATA GENERATION AND ACQUISITION

A description of the sampling scope, including types and numbers of samples required, locations of samples, rationale for design, and sampling methods, is detailed in the Work plan. This section presents the activities associated with data generation and acquisition to ensure that appropriate methods for sampling, measurement and analysis, and QC activities are employed throughout the project.

Sample Handling and Documentation

Sample Containers

All containers used to hold collected samples will be new containers supplied by the laboratory or an environmental equipment supply company. Appropriate measures shall be made to ensure that the samples are stored at the appropriate temperature while they are held at the site, during transport to the laboratory, and during storage at the laboratory.

Sample Labeling

Each sample taken will be labeled appropriately prior to submittal to the laboratory. All samples subject to analysis will require a sample ID that indicates where the sample was retrieved and



the matrix associated with the sample (i.e., groundwater). The sample label will include the following information:

- Sample identification
- Sampling date and time
- Name of the person who collected the sample
- The type of analysis to be performed on the sample
- Site name
- Type of preservative

Chain of Custody Record

All samples will be collected, transported, and received under chain-of-custody (COC) protocols. The COC will contain the following information:

- Project name
- Sample identifications
- Date and time of sample collection
- Analyses to be performed
- Signatures of personnel relinquishing and receiving the samples

The COC forms shall accompany the samples at all times. When transferring possession of the samples, the transferor shall sign the form and enter the date/time the samples were relinquished. The receiver shall also sign and date the form upon receiving the samples.

Hold Time Compliance

For each sample collected, the time a sample is held prior to analysis will be verified with the laboratory prior to submittal. It is the responsibility of the laboratory to analyze the submitted samples within the time indicated on the chain-of-custody form as the hold time, or turnaround time.

Equipment Decontamination

As necessary, equipment used in the field will be decontaminated prior to collection of each sample. The equipment will be rinsed with a biodegradable cleanser, along with a subsequent rinse with potable water, and a final rinse with de-ionized water.

Analytical Methods

Analytical methods for the collected samples are discussed in the RAW. The analytical methodologies, required equipment, and laboratory procedures shall meet the standards for the associated EPA methodology.

Quality Control

QC procedures will be implemented during field sampling and laboratory analysis activities. QC procedures in the field will consist of strict protocols for field sampling and decontamination procedures. Laboratory QC procedures will include the analysis of matrix spike and matrix spike duplicates. A description of the QC procedures is presented in the following sections.





Laboratory QC Samples

Laboratory QC samples will consist of method blanks, laboratory control samples, matrix spikes, matrix spike duplicates, and surrogate spikes.

- Method blanks will be analyzed at a minimum frequency of one per batch, and the concentration of target compounds in the blank must be less than the practical quantitation limit (PQL).
- Laboratory control samples (LCSs) will be analyzed at a minimum frequency of one per batch. Laboratory control samples consist of blank spikes, which are used to determine the accuracy of the analytical procedure by measuring a known concentration of an analyte of interest.
- Surrogate spikes will be performed for all organic standards, samples, and blanks. Each
 organic standard sample matrix spike, matrix spike duplicate, LCS, and blank is spiked with
 surrogate compounds prior to purging or extraction. Surrogate spike recoveries must fall
 within the limits established by the analytical method and if a surrogate spike recovery is
 outside of acceptable ranges, then a corrective action will be taken.
- Matrix spike/matrix spike duplicates (MS/MSD) are conducted to evaluate the matrix effect of the sample on the analytical method. The MS/MSD analyses will be performed at a minimum frequency of one per each group of 20 samples of the sample matrix. As a result, it is necessary to collect triplicate sample volumes in the field for one sample out of every 20. The RPD goal will be 20 percent.

Precision, Accuracy, and Completeness

The procedures used to assess data are precision, accuracy, and completeness. In the absence of laboratory-specific precision and accuracy limits, the QC limits presented in this section must be met.

Precision

Precision refers to the reproducibility of data under a specified set of conditions. Precision will be evaluated in conjunction with accuracy for the LCS samples. Precision will be determined using the MS/MSD samples and will be expressed as **RPD. RPD** is defined as:

% RPD =
$$((|X_1 - X_2|) / ((X_1 + X_2)/2)) \times 100\%$$

Here, X_1 , and X_2 refer to the larger and smaller of the two observed values, respectively.

Acceptable levels of precision vary with the sample matrix, analytical method, and sample concentration. EPA precision data will be used as a basis for developing acceptance criteria for assessing precision.

Accuracy

Accuracy refers to the degree of agreement between a measurement or set of measurements to an accepted reference value. Accuracy is assessed by means of reference samples and



percent recoveries. The calculation of percent recovery (AR) or accuracy is given by the equation:

Here, L_s refers to the measured value of the spiked sample, L refers to the measured value of the unspiked sample, and X refers to the known value of the spike solution. Acceptable levels of accuracy vary with the sample matrix, analytical method, and sample concentration. EPA accuracy data will be used as a basis for developing acceptance criteria for assessing precision.

Field accuracy will be assessed through the analysis of field equipment blanks. The goal for field equipment blanks is that all values are less than the reporting limit for each target constituent.

Completeness

Completeness is the amount of valid data collected as compared to the amount of data that was expected to be collected under normal operating conditions. Two completeness values will be calculated: total number of samples collected, and total number of samples reaching the laboratory intact. The objective for completeness is to recover at least 90 percent of the planned data. The formula for completeness is:

% completeness =100% x number of valid results/ number of expected results

INSTRUMENT CALIBRATION AND MAINTENANCE PROCEDURES

Laboratory analytical instruments will be calibrated in accordance with the procedures specified in the applicable method. All analytes that are reported shall be present in the initial and continuing calibrations, and these calibrations must meet the acceptance criteria specified in the reference method. Records of standard preparation and instrument calibration will be maintained. Records shall unambiguously trace the preparation of standards and their use in calibration and quantitation of sample results. Calibration records will be traceable to standard materials.

At the onset of analysis, instrument calibrations will be checked using all of the analytes of interest. At a minimum, calibration criteria will satisfy method requirements. Analyte concentrations can be determined with either calibration curves or response factors, as defined in the method. Guidance provided in USEPA SW-846, or applicable method, should be considered to determine appropriate evaluation procedures.

All equipment and instruments used in the field will be maintained and calibrated to operate within the manufacturer's specifications to ensure the required sensitivity and QA/QC parameters.

As applicable, use of all field instruments will be documented by maintaining a log for each individual instrument. Calibration and maintenance requirements of the field instruments follow the manufacturer's specifications. Any required modifications, adjustments, repairs, or replacement of parts for any piece of equipment are recorded in the instrument's logbook. The effects of the modifications will be tested with appropriate standards and the related procedures recalibrated, if required, prior to continued use of the equipment.



DATA MANAGEMENT

Data measured by field instruments will be recorded in field notebooks or logsheets. The field data will be reviewed by the Project Field Manager to evaluate completeness of the records, problems encountered in the field, and compliance with work plan-specified field methods. All field records will be retained in the project files.

Laboratory reports will be consistent with Level II documentation and include the following data:

- Narrative, chain-of-custody, and method references
- Analytical results
- Laboratory QC results including surrogate recoveries and LCS recoveries
- Sample spike recoveries
- Acceptance criteria for applicable QC samples

The laboratory QA/QC manager will determine if the data quality objectives (DQOs) for the analytical data have been met. Results will be documented and summarized in a data validation memorandum, which is reported along with the associated data.

Data Validation

Data validation is the process of screening and accepting or rejecting data to use for project evaluation and decision-making. Whether or not data is acceptable is based on compliance with specified criteria, including meeting holding times, verifying calibration results, and meeting goals for laboratory QC sample results (i.e., blank and duplicate sample results).

Data validation activities include the following:

- Confirmation that the calibration standards are within the expected values.
- Review of all associated blank, duplicate, spike, standard, and QC data to ensure that results meet analytical objectives.
- Flagging laboratory results that may be suspect. Suspect data will be assessed to determine whether the information is usable or not.

Corrective Action

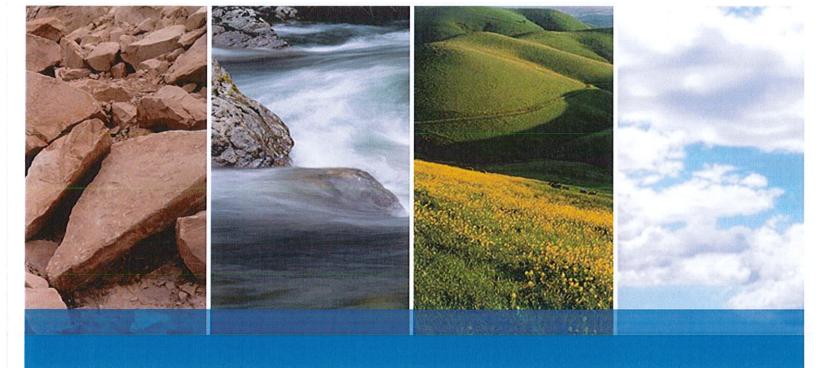
Corrective action will be initiated when deficiencies are encountered during the project or when QAPP guidelines/objectives are not met. Corrective action will be performed prior to analysis of the next batch of data to help prevent recurrent erroneous data. Corrective actions may consist of one or more of the following:

- Datum is annotated
- Documentation is reviewed for adherence to QA/QC procedures
- Measurement is repeated to check the error
- Duplicate sample is reanalyzed
- Calibrations are checked and/or repeated
- Measuring device is repaired or replaced
- Sample is re-collected



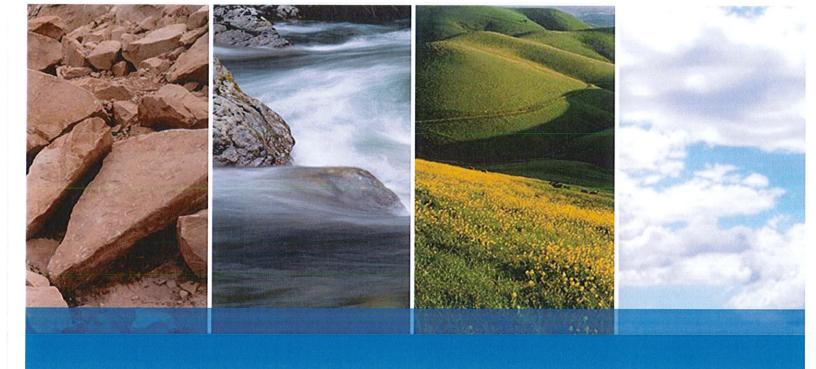
The Quality Assurance Manager will be responsible for initiating and approving corrective actions. All corrective actions will be handled individually.





APPENDIX E

HEALTH AND SAFETY PLAN





Appendix I

Voluntary Cleanup Agreement

STATE OF CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY DEPARTMENT OF TOXIC SUBSTANCES CONTROL

In the Matter of:

Skipolini Property

Proponent:

Jacqueline M. Seeno Cyrus Land Investments, LLC 4021 Port Chicago Hwy Concord, CA 94520 Docket No. HSA-FY18/19-110

Voluntary Cleanup Agreement

Health and Safety Code Section 25355.5(a)(1)(C)

The California Department of Toxic Substances Control (DTSC) and Cyrus Land Investments, LLC. (Proponent) enter into this Voluntary Cleanup Agreement (Agreement) and agree as follows:

1. <u>Site.</u> This Agreement applies to the property located at 7281 Lone Tree Way, in Contra Costa County, California 94513 (Site), identified by Contra Costa Assessor's Parcel Numbers 018-080-022, and any off-site area to which hazardous substances have or may have migrated from the Site. The Site is approximately 2.96 acres in size and is bordered by residential homes to the east and approximately 125 feet to the north. The site is bound by a ranch compound, a railroad row and fallow land to the west and south. A Site diagram and a Site location map are attached as Exhibits A and B.

2. <u>Jurisdiction</u>. This Agreement is entered into by DTSC and Proponent pursuant to Health and Safety Code section 25355.5(a)(1)(C) which authorizes DTSC to enter into an enforceable agreement to oversee the investigation and/or remediation of a release or threatened release of any hazardous substance at or from the Site.

3. <u>Purpose</u>. The purpose of this Agreement is for Proponent to investigate and/or remediate a release or threatened release of any hazardous substance at or from the Site under the oversight of DTSC. The purpose of this Agreement is also for DTSC to obtain reimbursement from Proponent for DTSC's oversight costs incurred pursuant to this Agreement.

4. Ownership. The Site is owned by Cyrus Land Investments, LLC.

5. <u>Substances Found at the Site</u>. Based on the information available to DTSC and Proponent, the Site is or may be contaminated with hazardous substances, including **Lead**.

6. <u>Scope of Work and DTSC Oversight</u>. DTSC shall review and provide Proponent with written comments on all Proponent's deliverables as described in Exhibit C (Scope of Work) and other documents applicable to the scope of the project. DTSC

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shall provide oversight of field activities, including sampling and remedial activities, as appropriate. Proponent agrees to perform all the work required by this Agreement. Proponent shall perform the work in accordance with applicable local, state and federal statutes, regulations, ordinances, rules and guidance documents, in particular, Health and Safety Code section 25300 et seq., as amended.

7. <u>Additional Activities</u>. DTSC and Proponent may amend this Agreement to include additional activities in accordance with Paragraph 17 of this Agreement. If DTSC expects to incur additional oversight costs for these additional activities, it will provide an estimate of the additional oversight costs to Proponent.

8. Endangerment During Implementation.

8.1. Proponent shall notify DTSC's Project Manager immediately upon learning of any condition that may pose an immediate threat to public health or safety or the environment. Within seven days of the onset of such a condition, Proponent shall furnish a report to DTSC, signed by Proponent's Project Manager, setting forth the conditions and events that occurred and the measures taken in response thereto.

8.2. In the event DTSC determines that any activity (whether or not pursued in compliance with this Agreement) may pose an imminent or substantial endangerment to the health or safety of people on the Site or in the surrounding area or to the environment, DTSC may order Proponent to conduct additional activities in accordance with Paragraph 7 of this Agreement or to stop further implementation of this Agreement for such period of time as may be needed to abate the endangerment. DTSC may request that Proponent implement interim measures to address any immediate threat or imminent or substantial endangerment.

9. <u>Access</u>. Proponent shall provide, and/or obtain access to the Site and take all reasonable efforts to obtain access to offsite areas to which access is necessary to implement the Agreement. Such access shall be provided to DTSC's employees, contractors, and consultants at all reasonable times. Nothing in this paragraph is intended or shall be construed to limit in any way the right of entry or inspection that DTSC or any other agency may otherwise have by operation of law.

10. <u>Sampling, Data and Document Availability</u>. When requested by DTSC, Proponent shall make available for DTSC's inspection, and shall provide copies of, all data and information concerning contamination at or from the Site, including technical records and contractual documents, sampling and monitoring information and photographs and maps, whether or not such data and information was developed pursuant to this Agreement. For all final reports, Proponent shall submit one hard (paper) copy and one electronic copy with all applicable signatures and certification stamps as a text-readable Portable Document Formatted (pdf) file compatible with Adobe Acrobat or a formatted file compatible with Microsoft Word.

11. <u>Record Preservation</u>. Proponent shall retain, during the implementation of

this Agreement and for a minimum of six years after its termination, all data, reports, and other documents that relate to the performance of this Agreement. If DTSC requests that some or all of these documents be preserved for a longer period of time, Proponent shall either comply with the request, deliver the documents to DTSC, or permit DTSC to copy the documents at Proponent's expense prior to destruction.

12. <u>Notification of Field Activities</u>. Proponent shall inform DTSC at least seven days in advance of all field activities pursuant to this Agreement and shall allow DTSC and its authorized representatives to take duplicates of any samples collected by Proponent pursuant to this Agreement.

13. Project Managers. Within 14 days of the effective date of this Agreement, DTSC and Proponent shall each designate a Project Manager and shall notify each other in writing of the Project Manager selected. The Proponent's Project Manager shall have the technical expertise in project management, regulatory compliance, and hazardous substance site cleanup sufficient to fulfill his or her responsibilities. Each Project Manager shall be responsible for overseeing the implementation of this Agreement and for designating a person to act in his/her absence. All communications between DTSC and Proponent, and all notices, documents and correspondence concerning the activities performed pursuant to this Agreement shall be directed through the Project Managers. Each party may change its Project Manager with at least seven days prior written notice.

14. Proponent's Consultant and Contractor. All engineering work performed pursuant to this Agreement shall be under the direction and supervision of a registered professional engineer licensed in California, with expertise in hazardous substance site cleanup. All geological work performed pursuant to this Agreement shall be under the direction and supervision of a registered professional geologist licensed in California, with expertise in hazardous substance site cleanup. All geological work performed pursuant to this Agreement shall be under the direction and supervision of a registered professional geologist licensed in California, with expertise in hazardous substance site cleanup. Proponent's contractors and consultants shall have the technical expertise sufficient to fulfill his or her responsibilities. Within 14 days of the effective date of this Agreement, Proponent shall notify DTSC's Project Manager in writing of the name, title, and qualifications of the registered professional engineer and/or professional geologist and of any contractors or consultants and their personnel to be used in carrying out the work under this Agreement in conformance with applicable state law, including but not limited to, Business and Professions Code sections 6735 and 7835.

15. <u>DTSC Review and Approval</u>. All work performed pursuant to this Agreement is subject to DTSC's review and approval. If DTSC determines that any report, plan, schedule or other document submitted for approval pursuant to this Agreement fails to comply with this Agreement or fails to protect public health or safety or the environment, DTSC may (a) return comments to Proponent with recommended changes and a date by which the Proponent must submit to DTSC a revised document incorporating or addressing the recommended changes; or (b) modify the document in consultation with Proponent and approve the document as modified. All DTSC approvals and decisions made regarding submittals and notifications will be communicated to Proponent in

writing by DTSC's Branch Chief or his/her designee. No informal advice, guidance, suggestions or comments by DTSC regarding reports, plans, specifications, schedules or any other writings by the Proponent shall be construed to relieve Proponent of the obligation to obtain such written approvals.

16. Payment.

16.1. Proponent agrees to pay 1) all costs incurred by DTSC in association with preparation of this Agreement, and for oversight activities, including review of documents, conducted prior to the effective date of this Agreement, and (2) all costs incurred by DTSC in providing oversight pursuant to this Agreement, including review of the documents described in Exhibit C and associated documents, and oversight of field activities. Costs incurred include interest on unpaid amounts that are billed and outstanding more than 60 days from the date of the invoice. An estimate of DTSC's oversight costs is attached as Exhibit D. It is understood by the parties that Exhibit D is an estimate and cannot be relied upon as the final cost figure. DTSC may provide an updated or revised cost estimate as the work progresses. DTSC will bill Proponent quarterly. Proponent agrees to make payment within 30 days of receipt of DTSC's billing. Such billings will reflect any amounts that have been advanced to DTSC by Proponent.

16.2. In anticipation of oversight activities to be conducted, Proponent shall make an advance payment of **\$20254** to DTSC no later than 10 days after this Agreement is fully executed. It is expressly understood and agreed that DTSC's receipt of the entire advance payment as provided in this paragraph is a condition precedent to DTSC's obligation to provide oversight, review of or comment on documents. If the advance payment exceeds DTSC's final costs, DTSC will refund the difference within 120 days after the performance of this Agreement is completed or after this Agreement is terminated pursuant to Paragraph 18 of this Agreement.

16.3. All payments made by Proponent pursuant to this Agreement shall be by check payable to the "Department of Toxic Substances Control", and bearing on its face the project code for the Site (Site # **202227-11**) and the docket number of this Agreement. Upon request by Proponent, DTSC may accept payments made by credit cards or electronic funds transfer. Payments by check shall be sent to:

Accounting Office Department of Toxic Substances Control 1001 I Street, 21st Floor P.O. Box 806 Sacramento, CA 95812-0806

A photocopy of the check shall be sent concurrently to DTSC's Project Manager.

16.4. DTSC shall retain all cost records associated with the work performed under this Agreement as may be required by state law. DTSC will make all documents that support DTSC's cost determination available for inspection upon request in accordance with the Public Records Act, Government Code section 6250 et seq.

17. <u>Amendments</u>. This Agreement may be amended in writing by mutual agreement of DTSC and Proponent. Such amendment shall be effective the third business day following the day the last party signing the amendment sends its notification of signing to the other party. The parties may agree to a different effective date.

18. Termination for Convenience.

18.1. Except as otherwise provided in this paragraph, each party to this Agreement reserves the right to unilaterally terminate this Agreement for any reason. Termination may be accomplished by giving a 30-day advance written notice of the election to terminate this Agreement to the other party. In the event that this Agreement is terminated under Paragraph 18.1, Proponent shall be responsible for DTSC costs through the effective date of termination.

18.2. If operation and maintenance activities are required for the final remedy, Proponent may not terminate the Agreement under Paragraph 18.1 upon DTSC's approval of an Operation and Maintenance Plan as proposed by Proponent, unless an Operation and Maintenance Agreement is entered into between DTSC and Proponent or between DTSC and a party responsible for the required operation and maintenance activities.

19. <u>Incorporation of Exhibits, Plans and Reports</u>. All exhibits are incorporated into this Agreement by reference. All plans, schedules and reports that require DTSC's approval and are submitted by Proponent pursuant to this Agreement are incorporated in this Agreement upon DTSC's approval.

20. <u>Reservation of Rights</u>. DTSC reserves all of its statutory and regulatory powers, authorities, rights, and remedies under applicable laws to protect public health or the environment, including the right to recover its costs incurred therefor. Proponent reserves all of its statutory and regulatory rights, defenses and remedies available to Proponent under applicable laws.

21. <u>Non-Admission of Liability</u>. By entering into this Agreement, Proponent does not admit to any finding of fact or conclusion of law set forth in this Agreement or any fault or liability under applicable laws.

22. <u>Proponent Liabilities</u>. Nothing in this Agreement shall constitute or be considered a covenant not to sue, release or satisfaction from liability by DTSC for any condition or claim arising as a result of Proponent's past, current, or future operations or ownership of the Site.

23. Government Liabilities. The State of California or DTSC shall not be liable for

any injuries or damages to persons or property resulting from acts or omissions by Proponent or by related parties in carrying out activities pursuant to this Agreement, nor shall the State of California or DTSC be held as a party to any contract entered into by Proponent or its agents in carrying out the activities pursuant to this Agreement.

24. <u>Third Party Actions</u>. In the event that Proponent is a party to any suit or claim for damages or contribution relating to the Site to which DTSC is not a party, Proponent shall notify DTSC in writing within 10 days after service of the complaint in the third-party action. Proponent shall pay all costs incurred by DTSC relating to such third-party actions, including but not limited to responding to subpoenas.

25. <u>California Law</u>. This Agreement shall be governed, performed and interpreted under the laws of the State of California.

26. <u>Severability</u>. If any portion of this Agreement is ultimately determined not to be enforceable, that portion will be severed from the Agreement and the severability shall not affect the enforceability of the remaining provisions of the Agreement.

27. <u>Parties Bound</u>. This Agreement applies to and is binding, jointly and severally, upon Proponent and its agents, receivers, trustees, successors and assignees, and upon DTSC and any successor agency that may have responsibility for and jurisdiction over the subject matter of this Agreement. Proponent shall ensure that its contractors, subcontractors and agents receive a copy of this Agreement and comply with this Agreement.

28. <u>Effective Date</u>. The effective date of this Agreement is the date of signature by DTSC's authorized representative after this Agreement is first signed by Proponent's authorized representative. Except as otherwise specified, "days" means calendar days.

29. <u>Representative Authority</u>. Each undersigned representative of the party to his Agreement certifies that she or he is fully authorized to enter into the terms and conditions of this Agreement and to execute and legally bind the party to this Agreement.

30. <u>Counterparts</u>. This Agreement may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

Mark Piros

Date: 3/15/2019

Mark Piros Acting Branch Chief Department of Toxic Substances Control

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Date: 228/19

Jacqueline M. Seeno Cyrus Land Investments LLC

EXHIBITS

- A SITE LOCATION MAP
- **B SITE DIAGRAM**
- C SCOPE OF WORK
- D COST ESTIMATE

EXHIBIT A

SITE LOCATION MAP

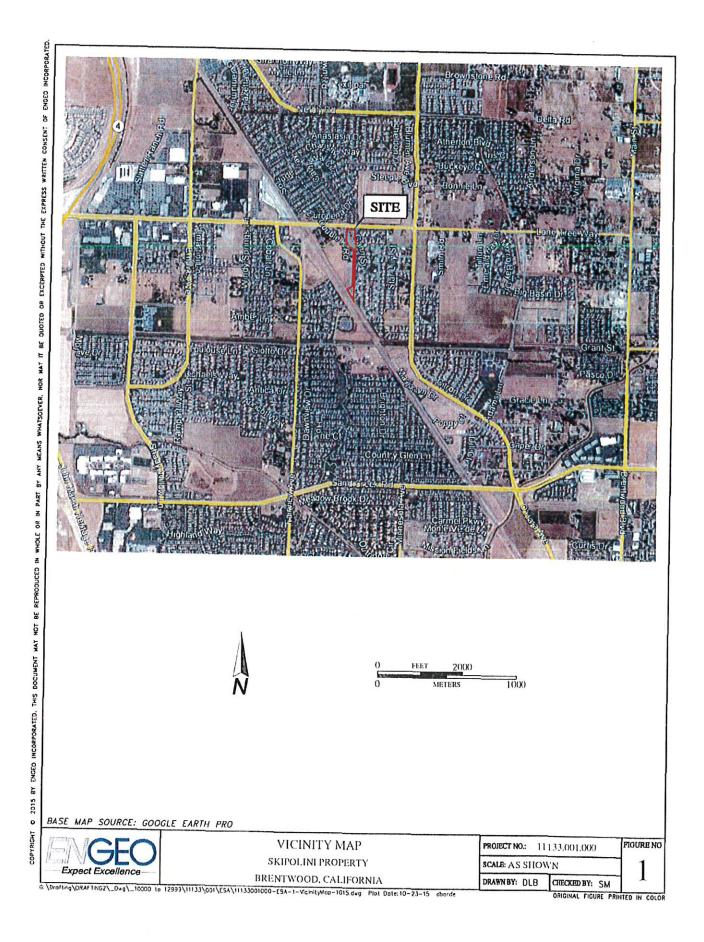


EXHIBIT B

SITE DIAGRAM

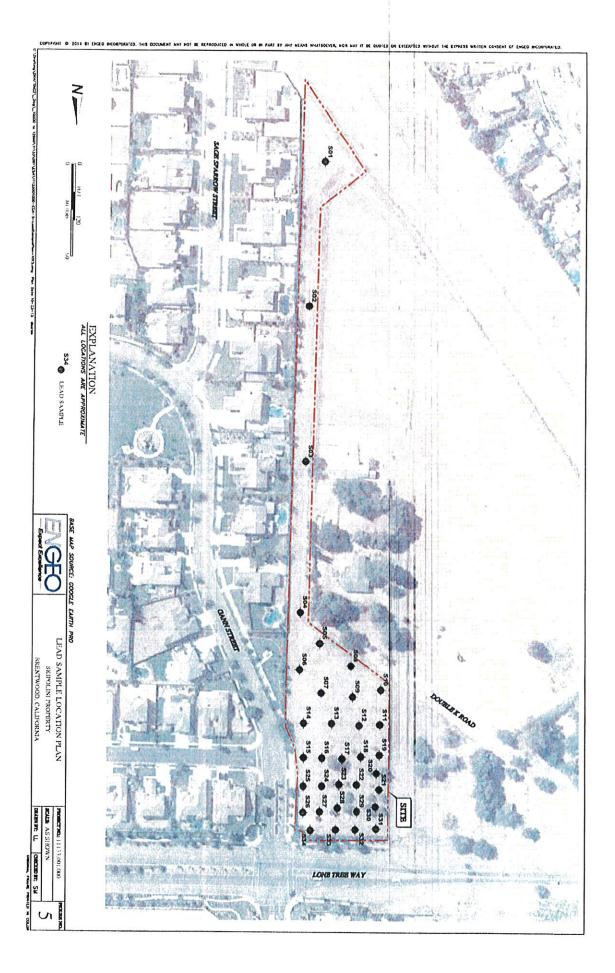


EXHIBIT C SCOPE OF WORK

The following Tasks will be completed as part of this Agreement:

TASK 1.

Submittal of Existing Data and Scoping Meeting

The Proponent will submit to DTSC all background information, sample analysis results, environmental assessment reports, and any other information pertinent to the hazardous substance management and/or release, characterization and cleanup of the Site. DTSC will review the information to identify areas and media of concern, and to determine the additional work, if any, required to complete the investigation/remediation of the Site. Following DTSC's initial review, a scoping meeting will be held to discuss whether further site characterization is necessary, and, if so, how the characterization will be conducted for the Site and how they will be implemented.

TASK 2 Remedy Selection Document.

2.1 <u>Removal Action Workplan</u>. ENGEO has prepared a Removal Action Workplan (RAW) dated February 2, 2016, pending DTSC's approval. The Removal Action Workplan includes:

- (a) a description of the onsite contamination;
- (b) the goals to be achieved by the removal action;
- (c) Sampling and Analysis Plan with corresponding Quality Assurance Plan to confirm the effectiveness of the RAW, if applicable; and
- (d) a brief overall description of methods that will be employed during the removal action to ensure the health and safety of workers and the public during the removal action. A detailed community air monitoring plan shall be included if requested by DTSC.

TASK 3.

<u>California Environmental Quality Act (CEQA)</u>. In order to meet its CEQA obligation, DTSC will prepare the necessary CEQA documents. If required, the Proponent shall submit the information necessary for DTSC to prepare these documents.

- (a) technical and operational plans and engineering designs for implementation of the approved remedial or removal action alternative(s);
- (b) a schedule for implementing the construction phase;
- (c) a description of the construction equipment to be employed;
- (d) a site specific hazardous waste transportation plan (if necessary);
- (e) any required registration requirements for contractors, transporters and other persons conducting the removal and remedial activities for the Site;

TASK 4.

Implementation of Final Removal Action Workplan. Upon DTSC approval of the final Removal Action Workplan (RAW), the Proponent shall implement the removal action, as approved.

TASK 5. <u>Implementation Report</u>. Within thirty (30) days of completion of field activities, the Proponent shall submit an Implementation Report documenting the implementation of the final RAW and noting any deviations from the approved plan.

TASK 6.

<u>Changes During Implementation of the Final RAW</u>. During implementation of the final RAW and RDIP, DTSC may specify such additions, modifications and revisions to the RAW or RDIP as deemed necessary to protect human health and safety or the environment or to implement the RAW.

TASK 7.

Public Participation.

7.1 The Proponent shall conduct appropriate public participation activities given the nature of the community surrounding the Site and the level of community interest. The Proponent shall work cooperatively with DTSC to ensure that the affected and interested public and community are involved in DTSC's decision-making process. Any such public participation activities shall be conducted in accordance with Health and Safety Code sections 25358.7, the DTSC Public Participation Policy and Procedures Manual, and with DTSC's review and approval.

7.2 A scoping meeting may be held to determine the appropriate activities that will be conducted to address public participation.

7.3 The Proponent shall prepare a community profile to examine the level of the community's knowledge of the Site; the types of community concerns; the proximity of the Site to homes and/or schools, day care facilities, churches, etc.; the current and proposed use of the Site; media interest; and involvement of community groups and elected officials. The community profile also includes a mailing list for the Site.

7.4 The Proponent shall develop and submit fact sheets to DTSC for review and approval when specifically requested by DTSC. The Proponent shall be responsible for printing and distribution of fact sheets upon DTSC approval using the approved community mailing list.

7.5 The Proponent shall publish, in a major local newspaper(s), a public notice announcing the availability of the RAW for public review and comment. The public comment period shall last a minimum of thirty (30) days.

7.6 DTSC may require that the Proponent hold at least one public meeting to inform the public of the proposed activities and to receive public comments on the RAW.

7.7 Within four (4) weeks of the close of the public comment period, DTSC will prepare a response to the public comments received. If required, the Proponent shall submit the information necessary for DTSC to prepare this document.

7.8 If appropriate, the Proponent will revise the RAW on the basis of comments received from the public, and submit the revised RAW to DTSC for review

and approval. If significant or fundamental changes are required, additional public participation activities, including an additional review and comment period, may be required. The Proponent will also notify the public of any significant changes from the action proposed in the RAW.

TASK 8.

<u>Quality Assurance/Quality Control (QA/QC) Plan</u>. All sampling and analysis conducted by the Proponent under this Agreement shall be performed in accordance with a QA/QC Plan submitted by the Proponent and approved by DTSC. The QA/QC Plan will describe:

- the procedures for the collection, identification, preservation and transport of samples;
- (b) the calibration and maintenance of instruments;
- (c) the processing, verification, storage and reporting of data, including chain of custody procedures and identification of qualified person(s) conducting the sampling and of a laboratory certified or approved by DTSC pursuant to Health and Safety Code section 25198; and
- (d) how the data obtained pursuant to this Agreement will be managed and preserved in accordance with the Preservation of Documentation section of this Agreement.

TASK 9.

<u>Health and Safety Plan</u>. The Proponent will submit a Site Health and Safety Plan in accordance with California Code of Regulations, Title 8, section 5192. This plan should include, at a minimum the following elements:

(a) Site Background/History/Workplan;

(b) Key Personnel and Responsibilities

(c) Job Hazard Analysis/Summary;

(d) Employee Training;

- (e) Personal Protection;
- (f) Medical Surveillance;
- (g) Air Surveillance;
- (h) Site Control;
- (i) Decontamination;
- (j) Contingency Planning;
- (k) Confined Space Operations;
- (I) Spill Containment;
- (m) Sanitation:
- (n) Illumination; and
- (o) Other applicable requirements based on the work to be performed.

DTSC's Interim Draft Site Specific Health and Safety Plan Guidance Document for Site Assessment/Investigation, Site Mitigation Projects, Hazardous Waste Site Work Closure, Post Closure, and Operation and Maintenance Activities (DTSC, December 2000) can be used as a reference tool, The Health and Safety Plan should cover all measures, including contingency plans, which will be taken during field activities to protect the health and safety of the workers at the Site and the general public from exposure to hazardous waste, substances or materials. The Health and Safety Plan should describe the specific personnel, procedures and equipment to be utilized.

All contractors and all subcontractors shall be given a copy of the Health and Safety Plan prior to entering the Site. Any supplemental health and safety plans prepared by any subcontractor shall also be prepared in accordance with the regulations and guidance identified above. The prime contractor responsible for this subcontractor will be responsible for ensuring that all subcontractor supplemental health and safety plans follow these regulations and guidelines.

	Clerical	Office Technician		0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.6	4.6	\$88	\$405		
	Legal	Staff Counsel		21							1	3.3	25.3	\$277	\$7,008		
	HQ CEQA	Associate Environmental Planner	24 1 4 1 21 2 1 4 1 21 8 1 4 1 16 21 8 1 6 20 16 71 8 1 6 20 16 71 8 1 6 20 16 71 8 1 6 20 16 71 8 1 1 20 16 71 8 1 1 20 30 24 33 11.3 1.1 1.2 20 3.0 2.4 3.3 86.3 8.6 9.2 15.0 23.0 18,4 25.3 5225 5146 53.364 53.368 52.7008 52.77														
KSHEET 119 27	Public Participation	Public Participation Specialist						20				3.0	23.0	S146	\$3,358		
EXHIBIT D COST ESTIMATE WORKSHEET Date: February 2019 Site Code: 202227	Geology	Engineering Geologist							9	9		2.0	15.0	\$225	\$3,364		
E COST ESTI Date: Site	Toxicology	Staff Toxicologist				4				4		1.2	9.2	\$185	S1,702		
	Supervisor	Supervising Hazardous Substances Engineer		-	-	-	۴-	1	1	1	+	1.1	8.6	\$277	\$2,389		
	Project Manager	Hazardous Substances Engineer		24	8	80	80	8	8	8	e	11.3	86.3	\$224	\$19.320	\$20.254	\$40.508
	Title	Classification	TASK:	Voluntary Cleanup Agreement	Review of Existing Data	Finishing RAW	CEQA	Public Participation	RAW Implementation	Review RAW Completion Report	Certification	Contingency (15%)	otal No. Hours/Class	Hourly Rate/Class	Cost/Class	Advance Payment	I OTAI ESTIMATED Payment