AEI Consultants
Environmental & Engineering Services

April 5, 2013

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Property Identification:
1502, 1506, 1510, 1522, & 1546 Lincoln Avenue
Calistoga, Napa County, California 94515

AEI Project No. 317822

Prepared for:
Indian Springs
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Calistoga, California 94515

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PROJECT SUMMARY

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue
1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, Napa County, California

Report Section		No Further Action	REC	HREC	BER	Recommended Action
2.1	Current use of subject property	X				
2.2	Adjoining property information	X				
3.1	Historical Summary		X		X	**Phase II Subsurface Investigation**
4.0	Regulatory Agency Records Review	X		X		
5.0	Regulatory Database Records Review	X		X		
6.3	Previous Reports	X				
7.0	Site Inspection and Reconnaissance	X				
7.2.1	Asbestos-Containing Materials	X			X	
7.2.2	Lead-Based Paint	X			X	
7.2.3	Radon	X				
7.2.4	Lead in Drinking Water	X				
7.2.5	Mold	X				

EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by Indian Springs to conduct a Phase I Environmental Site Assessment (ESA), in general conformance with the scope and limitations of ASTM Standard Practice E1527-05 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at 1502, 1506, 1510, 1522, & 1546 Lincoln Avenue in the City of Calistoga, Napa County, California. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report.

PROPERTY DESCRIPTION

The subject property, which consists of a multi-building mixed-use retail, office, and storage facility, is located east of Lincoln Avenue in a mixed commercial and residential area of Calistoga, California. The property totals approximately 44 acres and is improved with seven (7) single-story buildings of unknown total square footage. The subject property buildings are constructed slab-on-grade with no evidence of basements or other sub-grade areas. The subject property is currently occupied by the Indian Springs Resort offices, a coin operated Laundromat, art studios/showrooms, and storage spaces for the Indian Springs Resort. On-site operations include retail (art) sales, storage uses, a laundry facility, and general office activities. In addition to the subject property buildings, the property is improved with a small vacant shed structure (former radio control room for former on-site landing strip), asphalt-paved walkway and parking areas, and associated landscaping in the western portion of the site. The remainder (and majority) of the site consists of undeveloped land that was historically used as an airstrip.

During the site reconnaissance, hazardous materials consisting of routine property upkeep supplies, including various cleansers and paints, and relatively small amounts of gasoline and lubricants were observed in connection with the property as a whole. No environmental concerns associated with the storage and/or use of these materials were noted during the site reconnaissance or during the review of regulatory records. Please refer to Section 7.1 for additional information.

According to historical sources, most of the buildings at the subject property appear to have generally been constructed by the early-1950s. According to Sanborn maps, the subject property was formerly developed with commercial and residential buildings and occupied by a Brooder (chicken) factory, various Chinese businesses (including a laundry, a wash house, & various store businesses), and dwellings (circa 1910); and stores, a gas & oil station, and dwellings (circa 1924-1934). Former landing strip areas were originally graded during World War II for possible use as an emergency airfield. Between 1969 and 1988, these areas were used by the Calistoga Soaring Center who used the runways to stage public glider rides. Small-scale gliderport activities continued until the mid-1990s. The small vacant building to the west of the runways (near Lincoln Avenue) was constructed by the mid-1960s and was occupied by various drive-in restaurants until becoming vacant in the early-2000s. The southwestern corner of the property was developed with a service station from the 1920s until the mid-1970s. Two gasoline underground storage tanks (USTs) were reportedly removed in January 1990. The station building was removed in the mid to late-1970s, and the area was occupied by a produce stand until the existing art studio/showroom building was constructed in the early-1980s. The current hangar buildings and Laundromat building in the southwestern section of the property were likely constructed shortly after the development of the original airfield configuration in the late-1940s or early 1950s. Three gasoline or aviation fuel USTs were installed in the vicinity of

these buildings during this period. One of the hangar buildings (presumably the westernmost) was occupied by a possible drycleaners during the 1950s and 1960s. Other former occupants of the hangar buildings include Duane Russell's Tool & Equipment shop (1960s to the early-1970s), Greyhound Bus Lines (mid-1950s and 1970), and the Glen Pope Woodworking shop (1980s). The current commercial building to the northeast of the hangars has been occupied by the current Laundromat since approximately 1975. Prior to that, the use of the building is unknown, but the building may have been occupied by various restaurants. The current Indian Springs Resort office building was constructed in the 1990's and was originally used as a restaurant.

The subject property, identified as Calistoga Gliderport (1546 Lincoln Avenue), was identified in the regulatory database as a Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), HIST Cortese, Envirostor, and HAZNET site. The subject property, identified as Merchant Property (1506 Lincoln Avenue), was identified in the regulatory database as a LUST, UST, and HIST Cortese site. Refer to Section 5.1.

The immediately surrounding properties consist of the following:

Direction from Site	Address-Tenant/Use
North	The Lodge/Nance's Lodge (1614 Lincoln Avenue), the Indian Springs Resort (1712 Lincoln Avenue), and two mobile home parks (45 Magnolia Drive and 223 Champagne West)
South	An easement driveway, followed by a former railroad spur and Palisades Deli/Café (1458 Lincoln Avenue), Calistoga Spa & Hot Springs (1006 Washington Street), various hanger-type buildings used for small shop activities and storage, the Calistoga Preschool (1432 Eddy Street), residences, a former walnut processing factory and mini-storage building (500-504 Washington Street), the Calistoga Public Works Center (414 Washington Street), and a baseball field
East	Unimproved agricultural land
West	Lincoln Avenue, followed by mixed-use retail and office businesses (1491-1535 Lincoln Avenue)

An adjacent site to the north, identified as Indian Springs (1712 Lincoln Avenue), was identified in the regulatory database as a California Hazardous Materials Incident Reporting System (CHMIRS) and Enforcement (ENF) site. Another adjacent property to the north, identified as Calistoga Square LLC (1614 Lincoln Avenue), was identified in the regulatory database as a HAZNET site. An adjacent site to the south (414 Washington Street) was identified in the regulatory database as a LUST, UST, HIST UST, SWEEPS UST, HIST Cortese, Aboveground Storage Tank (AST), HAZNET, and Waste Discharge System (WDS) site. Another adjacent site to the south (500-504 Washington Street) was identified in the regulatory database as a LUST, UST, and HIST Cortese site. Refer to Section 5.1.

Based upon topographic map interpretation and groundwater monitoring data for the subject property site, the direction of groundwater flow beneath the subject property is inferred to be to the south. Based on various groundwater monitoring reports for the subject property site, groundwater is presumed to be present at an estimated depth of 3-20 feet below ground surface (bgs).

FINDINGS

Recognized Environmental Conditions (RECs) are defined by the ASTM Standard Practice E1527-05 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. AEI's assessment has revealed the following RECs associated with the subject property or nearby properties:

- Based on a review of historic city directories, a hangar building in the western end of the property (identified as 1522 Lincoln Avenue) was formerly occupied by drycleaners businesses for at least 10 years during the 1950s and 1960s. These businesses typically use chlorinated solvents during cleaning operations. Chlorinated solvents are highly mobile chemicals that can easily accumulate in soil and migrate to groundwater beneath a facility. These solvents, even when properly stored and disposed of, can be released from these facilities in small, frequent releases through floor drains, cracked concrete, and sewer systems. Based on this information, the presence of a drycleaners facility on the subject property represents evidence of a recognized environmental condition.

  Although extensive subsurface investigation work has been conducted in the southwestern area of the property in connection with the former service station and aviation fuel tanks on-site, sampling for contaminants typically associated with drycleaners such as chlorinated solvents does not appear to have been conducted. Therefore, AEI recommends the performance of soil and/or groundwater sampling to investigate whether the former presence of the drycleaner facility resulted in a significant impact to the subsurface of the property.

Historical Recognized Environmental Conditions (HRECs) are defined by the ASTM Standard Practice E1527-05 as an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. AEI's assessment has revealed the following HRECs associated with the subject property or nearby properties:

- According to documents on file with the NCDEM, five underground storage tanks (USTs) containing gasoline and/or aviation fuel were removed from the western end of the property in January 1990. The USTs were removed from behind the former Palisades Market building (currently an art studio/showroom), southeast of the Laundromat building, and east of the hanger buildings. It appears that the two gasoline USTs removed from behind the current Palisades Market (associated with the former gasoline service stations onsite) and the remaining three gasoline and/or aviation fuel USTs in the vicinity of the hangar buildings were installed in the late 1940s during the most recent development of the subject property.

  According to NCDEM records reviewed, elevated concentrations of petroleum and aromatic hydrocarbons remained in subsurface soils at two former UST locations: "A" (behind Palisades Market); and "B" (located between the easternmost hangar building and the Laundromat). Benzene was detected in groundwater samples collected from monitoring well MW-1, located to the east of the hangar building near the former UST excavation area "C". Additional excavations were conducted in several areas. Although contamination was left in place at location "A" due to its proximity to the market building, groundwater samples

collected from the monitoring well near area "A" (MW-3) did not contain significant contaminant levels. Based on this, case closure for the subject property was granted by the NCDEM initially on January 11, 1996. Subsequent closure documentation was issued following the decommissioning of groundwater monitoring wells and the disposal of 55-gallon drums containing potentially impacted purged groundwater and soil cuttings.

Based on this information, no further action appears warranted at this time; however, the user of this report should be aware that limited contamination may remain in the subsurface.

- During the removal of one 10,000-gallon aviation fuel UST in 1999, impacted soil was over-excavated. Three groundwater monitoring wells were installed during subsurface characterization activities, and soil and groundwater was analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), TPH as aviation fuel, benzene, toluene, ethylbenzene, and xylenes (BTEX), and total lead. Very low levels of petroleum hydrocarbons and MTBE were detected in soil and groundwater samples. The wells (MW-1, MW-2, and MW-3) were installed to the south-southeast (down-gradient) of the former UST excavation, and were monitored along with an inactive water well (WS-1) on a semi-annual or annual basis depending on historical analytical data from 2000 through 2005.

  According to the analytical results cited in the most recent groundwater monitoring report (*Groundwater Monitoring Report-April 2005 Event*, Edd Clark & Associates, June 28, 2005), the only analyte detected in groundwater samples collected for the April event was MTBE at 33 micrograms per liter (ug/L) in MW-2. The highest concentration of MTBE detected from MW-2 over the last three years was 66 ug/L in October 2002. With the exception of low levels of toluene, ethylbenzene, and/or xylenes during the preceding monitoring events in 2002 and 2003, none of the other contaminants of potential concern had been detected in groundwater samples over the last several consecutive sampling events. In addition, based on a time series history of analytical results for groundwater from MW-2, MTBE concentrations in groundwater in MW-2 was calculated to reach the risk-based screening level of 5.0 ug/L for sites where groundwater is a current or potential source of drinking water by 2008. Based on this information, the NCDEM issued a Case Closed status for the site on August 30, 2007.

  Based on this information, no further action appears warranted at this time; however, the user of this report should be aware that limited contamination may remain in the subsurface.

<u>De Minimis Environmental Conditions</u> include environmental concerns identified by AEI that warrant discussion but do not qualify as RECs, as defined by the ASTM Standard Practice E1527-05. AEI's assessment has revealed the following de minimis environmental conditions associated with the subject property or nearby properties:

- No on-site de minimis environmental conditions were identified during the course of this assessment.

Business Environmental Risks (BERs) include risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the subject property, not necessarily limited to those environmental issues required to be investigated in the standard ASTM scope. BERs may affect the liabilities and financial obligations of the client, the health & safety of site occupants, and the value and marketability of the subject property. AEI's assessment has revealed the following BERs associated with the subject property or nearby properties:

- According to historical sources, the hangar buildings at the subject property were formerly occupied by several businesses conducting various shop operations, such as Duane B. Russell Tools & Equipment and Glen Pope Woodworking. According to the owner of the subject property, Mr. John Merchant, glider repair operations were also performed in the hangar buildings at various times until the mid to late 1990s. Hazardous materials were likely used onsite during these operations; however, no records indicating specific chemicals were on file with any of the agencies contacted during this assessment. Based on the lack of indication of any chemical releases, and the presumed small-scale nature of such activities, the former presence of these businesses and/or operations onsite is not expected to represent a significant environmental concern.

- Due to the age of the subject property buildings, there is a potential that asbestos-containing materials (ACMs) are present. All suspect ACMs were observed in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, an asbestos survey adhering to AHERA sampling protocol should be performed prior to demolition or renovation activities that may disturb suspect ACMs.

- Due to the age of the subject property buildings, there is a potential that lead-based paint (LBP) is present. All observed painted surfaces were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. Local regulations may apply to lead-based paint in association with building demolition/renovations and worker/occupant protection. Actual material samples would need to be collected or an XRF survey performed in order to determine if LBP is present. It should be noted that construction activities that disturb materials or paints containing *any amount* of lead may be subject to certain requirements of the OSHA lead standard contained in 29 CFR 1910.1025 and 1926.62.

CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment for the property located at 1502, 1506, 1510, 1522, & 1546 Lincoln Avenue in the City of Calistoga, Napa County, California, in general conformance with the scope and limitations of ASTM Standard Practice E1527-05 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312). Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report. This assessment has revealed no evidence of RECs in connection with the property except for those previously identified in the *Findings* section.

AEI recommends the performance of soil and/or groundwater sampling to investigate whether the former presence of the drycleaner facility resulted in a significant impact to the subsurface of the property.

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1.0 INTRODUCTION

This report documents the methods and findings of the Phase I Environmental Site Assessment (ESA) performed in general conformance with the scope and limitations of ASTM Standard Practice E1527-05 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at 1502, 1506, 1510, 1522, & 1546 Lincoln Avenue in the City of Calistoga, Napa County, California (Figure 1: Site Location Map, Figure 2: Site Map, and Appendix A: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I Environmental Site Assessment is to assist the client in identifying potential environmental liabilities associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property, as well as regulatory non-compliance that may have occurred at the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

The goal of AEI Consultants in conducting the Phase I Environmental Site Assessment was to identify the presence or likely presence of any hazardous substances or petroleum products on the property that may indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum product into the soil, groundwater, or surface water of the property.

1.2 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI Consultants in this report. AEI Consultants relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI Consultants has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites are assumed based on contours depicted on the United States Geological Survey topographic maps. AEI Consultants assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.3 LIMITATIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI Consultants makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: asbestos-containing 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, mold, vapor intrusion, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-05.

If requested by the client, these non-scope issues are discussed in Section 7.2. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-05 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1) 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-05.

2) Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

3) 42 U.S.C. 9601(40) and 42 U.S.C. 9607(q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

1.4 LIMITING CONDITIONS

The performance of this Phase I Environmental Site Assessment was limited by the following conditions:

- The User did not complete the ASTM User questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this investigation.

- Due to the size of the subject property, AEI performed a site inspection of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present onsite, isolated areas of the site may have not been accessible for direct observation during AEI's inspection.

1.5 DATA GAPS AND DATA FAILURE

According to ASTM E1527-05, data gaps occur when the Environmental Professional is unable to obtain information required, despite good faith efforts to gather such information.

Data failure is one type of data gap. According to ASTM E1527-05 "data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met". Pursuant to ASTM Standards, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier.

The following data gap was identified during the course of this assessment:

Data Gap:	AEI was not able track the history of the subject property back to the first developed use (due to data failure) as none of the historical sources utilized as part of this assessment covered the period prior to 1910 (first available Sanborn map).			
Does this data gap affect the EP's ability to identify RECs?		Yes		No	X
Rationale	Based on the commercial and residential nature of occupancy depicted on the first available Sanborn map (1910), this data gap is not expected to alter the conclusions of the report.			
Information/ sources consulted	Sanborn maps, aerial photographs, city directories, building records, assessor records, environmental records, interview			

1.6 RELIANCE

All reports, both verbal and written, are for the benefit of Indian Springs. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Indian Springs on March 20, 2013. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

The subject property, which consists of a multi-building mixed-use retail, office, and storage facility, is located east of Lincoln Avenue in a mixed commercial and residential area of Calistoga, California. The property totals approximately 44 acres and is improved with seven (7) single-story buildings of unknown total square footage. The subject property buildings are constructed slab-on-grade with no evidence of basements or other sub-grade areas. The subject property is currently occupied by the Indian Springs Resort offices, a coin operated Laundromat, art studios/showrooms, and storage spaces for the Indian Springs Resort. On-site operations include retail (art) sales, storage uses, a laundry facility, and general office activities. In addition to the subject property buildings, the property is improved with a small vacant shed structure (former radio control room for former on-site landing strip), asphalt-paved walkway and parking areas, and associated landscaping in the western portion of the site. The remainder (and majority) of the site consists of undeveloped land that was historically used as an airstrip.

The subject property, identified as Calistoga Gliderport (1546 Lincoln Avenue), was identified in the regulatory database as a LUST, UST, HIST Cortese, Envirostor, and HAZNET site. The subject property, identified as Merchant Property (1506 Lincoln Avenue), was identified in the regulatory database as a LUST, UST, and HIST Cortese site. Refer to Section 5.1.

The Assessor's Parcel Numbers (APNs) for the subject property are 011-340-002; -003; -004; -005; -012; -016; & -018. According to Mr. Daniel Merchant, subject property owner, heating and cooling systems on the subject property are fueled by natural gas and electricity provided by Pacific Gas and Electric (PG&E), and potable water and sewage disposal are provided by municipal services.

Refer to Figure 1: Site Location Map, Figure 2: Site Map, and Appendix A: Property Photographs for site location.

2.2 SITE AND VICINITY CHARACTERISTICS

The immediately surrounding properties consist of the following:

Direction from Site	Address-Tenant/Use
North	The Lodge/Nance's Lodge (1614 Lincoln Avenue), the Indian Springs Resort (1712 Lincoln Avenue), and two mobile home parks (45 Magnolia Drive and 223 Champagne West)
South	An easement driveway, followed by a former railroad spur and Palisades Deli/Café (1458 Lincoln Avenue), Calistoga Spa & Hot Springs (1006 Washington Street), various hanger-type buildings used for small shop activities and storage, the Calistoga Preschool (1432 Eddy Street), residences, a former walnut processing factory and mini-storage building (500-504 Washington Street), the Calistoga Public Works Center (414 Washington Street), and a baseball field
East	Unimproved agricultural land
West	Lincoln Avenue, followed by mixed-use retail and office businesses (1491-1535 Lincoln Avenue)

An adjacent site to the north, identified as Indian Springs (1712 Lincoln Avenue), was identified in the regulatory database as a CHMIRS and ENF site. Another adjacent property to the north, identified as Calistoga Square LLC (1614 Lincoln Avenue), was identified in the regulatory database as a HAZNET site. An adjacent site to the south (414 Washington Street) was identified in the regulatory database as a LUST, UST, HIST UST, SWEEPS UST, HIST Cortese, AST, HAZNET, and WDS site. Another adjacent site to the south (500-504 Washington Street) was identified in the regulatory database as a LUST, UST, and HIST Cortese site. Refer to Section 5.1.

2.3 PHYSICAL SETTING

Geology: According to information obtained from the United States Geological Survey (USGS), the area surrounding the subject property is underlain by alluvial deposits of the Holocene-era. Based on various subsurface investigations performed at the subject property site, the soils in the vicinity of the subject property were classified as a coarse sandy silt.	
USGS Topographic Map:	*Calistoga, California* Quadrangle
Nearest surface water to subject property :	Napa River/Approximately 0.4 mile to the southwest
Gradient Direction/Source:	South/Topographic map interpretation and groundwater monitoring data for the subject property site
Estimated Depth to Groundwater/Source:	3-20 feet bgs/Various groundwater monitoring reports for the subject property site

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

3.1 HISTORICAL SUMMARY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-05 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historic city directories, Sanborn fire insurance maps and agency records is as follows:

Date Range	Subject Property Description/Use	Source(s)
Circa 1910	Developed with a Brooder factory, various Chinese businesses (including a laundry, a wash house, and stores), and dwellings with associated out buildings/Commercial and residential	Sanborn map
Circa 1924-1934	Developed with a store building, a gas & oil station, and dwellings with associated out buildings/Commercial and residential	Sanborn maps
Circa 1940s – 1950s	Developed with a landing strip and associated hanger uses, as well as a gasoline service station/Commercial	Building records, city directories, aerial photographs, interview, environmental records
Circa 1960s – 1990s	Developed with a landing strip and associated hanger uses associated with a gliderport operation, as well as a gasoline service station, a Greyhound bus depot, various shops, various restaurants, and a Laundromat/Commercial	Building records, city directories, aerial photographs, interview, environmental records
Circa 1990s – present	Developed with the current commercial buildings and occupied by grocery/retail stores, various shops, art studios, a Laundromat, restaurants, offices, and storage uses/Commercial	Building records, city directories, aerial photographs, interview, environmental records, on-site observations

According to historical sources, most of the buildings at the subject property appear to have generally been constructed by the early-1950s. According to Sanborn maps, the subject property was formerly developed with commercial and residential buildings and occupied by a Brooder (chicken) factory, various Chinese businesses (including a laundry, a wash house, & various store businesses), and dwellings (circa 1910); and stores, a gas & oil station, and dwellings (circa 1924-1934). Former landing strip areas were originally graded during World War II for possible use as an emergency airfield. Between 1969 and 1988, these areas were used by the Calistoga Soaring Center who used the runways to stage public glider rides. Small-scale gliderport activities continued until the mid-1990s. The small vacant building to the west of the runways (near Lincoln Avenue) was constructed by the mid-1960s and was occupied by various drive-in restaurants until becoming vacant in the early-2000s. The southwestern corner of the property was developed with a service station from the 1920s until the mid-1970s. Two gasoline underground storage tanks (USTs) were reportedly removed in January 1990. The station building was removed in the mid to late-1970s, and the area was occupied by a produce stand until the existing art studio/showroom building was constructed in the early-1980s. The current hangar buildings and Laundromat building in the southwestern section of the property were likely constructed shortly after the development of the original airfield configuration in the late-1940s or early 1950s. Three gasoline or aviation fuel USTs were installed in the vicinity of

these buildings during this period. One of the hangar buildings (presumably the westernmost) was occupied by a possible drycleaners during the 1950s and 1960s. Other former occupants of the hangar buildings include Duane Russell's Tool & Equipment shop (1960s to the early-1970s), Greyhound Bus Lines (mid-1950s and 1970), and the Glen Pope Woodworking shop (1980s). The current commercial building to the northeast of the hangars has been occupied by the current Laundromat since approximately 1975. Prior to that, the use of the building is unknown, but the building may have been occupied by various restaurants. The current Indian Springs Resort office building was constructed in the 1990's and was originally used as a restaurant.

Refer to Sections 4.1.1, 4.1.7, and 5.1 for information regarding the investigations and remediation activities associated with the former subject property USTs.

Based on a review of historic city directories, a hangar building in the western end of the property (identified as 1522 Lincoln Avenue) was formerly occupied by several "cleaners" businesses for at least 10 years during the 1950s and 1960s. Businesses identified as "Cleaners" in historic city directories typically refer to drycleaners businesses, and these types of cleaners typically use chlorinated solvents during cleaning operations. Chlorinated solvents are highly mobile chemicals that can easily accumulate in soil and migrate to groundwater beneath a facility. These solvents, even when properly stored and disposed of, can be released from these facilities in small, frequent releases through floor drains, cracked concrete, and sewer systems. Based on this information, the presence of a potential drycleaners facility on the subject property represents a significant environmental concern.

According to historical sources, the hangar building at the subject property were formerly occupied by several businesses conducting various shop operations, such as Duane B. Russell Tools & Equipment and Glen Pope Woodworking. According to the owner of the subject property, Mr. John Merchant, glider repair operations were also performed in the hangar buildings at various times until the mid to late-1990s. Hazardous materials were likely used onsite during these operations; however, no records indicating specific chemicals were on file with any of the agencies contacted during this assessment. Based on the lack of indication of any chemical releases, and the presumed small-scale nature of such activities, the former presence of these businesses and/or operations onsite is not expected to represent a significant environmental concern.

If available, copies of historical sources are provided in the report appendices.

3.2 AERIAL PHOTOGRAPH REVIEW

AEI Consultants reviewed aerial photographs of the subject property and surrounding area. Aerial photographs were reviewed for the following years:

Date(s)	Scale	Subject Property Description	Surrounding Area Descriptions
1957	1:8,400	Appears to be developed some of the current buildings (hangers and Laundromat building), as well as a commercial building in the southwest corner of the site. The remainder of the site appears to be used as a landing strip.	**North:** The current lodge and resort properties, as well as undeveloped land **South:** A potential railroad right-of-way, followed by various commercial and residential building structures, and some type of water holding ponds **East:** Undeveloped land **West:** Lincoln Avenue, followed by various commercial and/or residential buildings
1965	1:8,400	No significant changes noted from the 1957 aerial photograph, except that one additional building now appears in the west central portion of the site (currently vacant).	No significant changes noted from the prior aerial photographs, except the former water holding ponds have been filled in.
1982 1993	1:8,400 1:8,400	No significant changes noted from the 1965 aerial photograph.	No significant changes noted from the prior aerial photographs, except the adjacent site to the northeast is now developed with the current mobile home parks.
2012	Unknown	Appears to be developed as it is today, including the current office building near Lincoln Avenue.	Appear to be developed as they are today.

3.3 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the Seattle Public Library on-line collection of Sanborn Fire Insurance maps. Sanborn maps were available and reviewed for the years 1910, 1924, and 1934.

Date(s)	Subject Property Description	Surrounding Area Descriptions
1910	Only the western most portion of the subject property is covered by this Sanborn map: the site is improved with various commercial and residential building structures and occupied by a Brooder (chicken) factory, a Chinese laundry, Chinese stores, a Chinese wash house, and dwellings with associated out buildings. Addresses associated with the subject property included 502-508 Lincoln Avenue.	**North:** Not depicted **South:** A railroad right-of-way, followed by a freight depot building and storage shed **East:** Not depicted **West:** Lincoln Avenue, followed by dwellings and a saloon
1924	Only the western most portion of the subject property is covered by this Sanborn map: the site is improved with various commercial and residential building structures and occupied by a wholesale grocery and feed store, a gas & oil service station, and dwellings with associated out buildings. Addresses associated with the subject property included 502-508 Lincoln Avenue.	**North:** Not depicted **South:** A railroad right-of-way, followed by a freight depot building and storage shed **East:** Not depicted **West:** Lincoln Avenue, followed by a vacant building and a billiards business

1934	Only the western most portion of the subject property is covered by this Sanborn map: the site is improved with various commercial and residential building structures and occupied by a store, a gas & oil service station, and dwellings with associated out buildings. Addresses associated with the subject property included 502-508 Lincoln Avenue.	**North:** Not depicted **South:** A railroad right-of-way, followed by a freight depot building and storage shed **East:** Not depicted **West:** Lincoln Avenue, followed by a vacant building and a billiards business

3.4 CITY DIRECTORIES

A search of historic city directories was conducted for the subject property at the Napa Public Library. Directories were available and reviewed for the years 1956, 1959, 1963, 1966, 1970, 1975, 1981, 1986, 1990, 1995, 2000, 2005, and 2010. The following table summarizes the results of the city directory search.

City Directory Search Results

Date(s)	Address No: Occupant Listed
1956, 1959	1506: No Listings 1522: **Airpark Union Service Station** Calistoga Airpark PAC Greyhound Lines Thomas Cleaners 1528: Air Park Orange Juice
1963	1506: **Dick's Wilshire Gas** 1522: **Thompson Cleaners**
1966	1506: No Listings 1510: **Dick's Gulf Gas Station** **Dow Airpark Cleaners** Duane B. Russell Tools & Equipment 1528: No Listings 1546: No Listings
1970	1506: **Art's Hancock Service Station** 1522: Calistoga Soaring Center Western Greyhound Duane B. Russell Tools & Equipment Airpark Drive-In
1975	1506: **Beacon Service Station** 1522: Calistoga Soaring Center Calistoga Laundromat Airpark Drive-In
1981, 1986	1506: Calistoga Produce 1510: Glen Pope Woodworking 1522: No Listings 1546: Airpark Drive-In Calistoga Soaring Center & Airport
1990	Street Not Listed
1995	1506: Palisades Market 1510: Calistoga Gardens Tin Barn Collective 1522: Big Daddy's 1546: No Listings

Date(s)	Address No: Occupant Listed
2000, 2005	1506: Palisades Market 1510: Laundromat 1522: Pat Merchant 1546: No Listings
2010	1506: No Listings 1510: Laundromat 1522: Indian Springs Resort (office) 1546: No Listings

Refer to Section 3.1 above for information regarding past uses of the property for drycleaning and shop uses.

3.5 HISTORICAL TOPOGRAPHIC MAPS

In accordance with our approved scope of services, historical topographic maps were not reviewed as a part of this assessment.

3.6 CHAIN OF TITLE

In accordance with our approved scope of services, a Chain of Title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

4.1 REGULATORY AGENCIES

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous materials use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to Activity and Use Limitations (AULs), defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1.1 HEALTH DEPARTMENT

On March 22, 2013, AEI contacted the Napa County Department of Environmental Management (NCDEM) for information on the subject property and nearby sites of concern. Files at this agency may contain information regarding hazardous materials storage, as well as information regarding unauthorized releases of petroleum hydrocarbons or other contaminants that may affect the soil or groundwater in the area.

The NCDEM referred AEI to their on-line database for all records regarding hazardous materials storage, as well as any release incidents that may be on file. Information obtained from the database is summarized below:

<u>Five Former Gasoline and Aviation Fuel USTs Removed in 1990</u>

According to documents on file with the NCDEM, five underground storage tanks (USTs) containing gasoline and/or aviation fuel were removed from the western end of the property in January 1990. The USTs were removed from behind the former Palisades Market building (currently an art studio/showroom), southeast of the Laundromat building, and east of the hanger buildings. It appears that the two gasoline USTs removed from behind the current Palisades Market (associated with the former gasoline service stations onsite) and the remaining three gasoline and/or aviation fuel USTs in the vicinity of the hangar buildings were installed in the late 1940s during the most recent development of the subject property.

According to NCDEM records reviewed, elevated concentrations of petroleum and aromatic hydrocarbons remained in subsurface soils at two former UST locations: “A” (behind Palisades Market); and “B” (located between the easternmost hangar building and the Laundromat). Benzene was detected in groundwater samples collected from monitoring well MW-1, located to the east of the hangar building near the former UST excavation area “C”. Additional excavations were conducted in several areas. Although contamination was left in place at location “A” due to its proximity to the market building, groundwater samples collected from the monitoring well near area “A” (MW-3) did not contain significant contaminant levels. Based on this, case closure for the subject property was granted by the NCDEM initially on January 11, 1996. Subsequent closure documentation was issued following the decommissioning of groundwater monitoring wells and the disposal of 55-gallon drums containing potentially impacted purged groundwater and soil cuttings.

<u>Former 10,000-gallon UST Removed in 1999</u>

During the removal of one 10,000-gallon aviation fuel UST in 1999, impacted soil was over-excavated. Three groundwater monitoring wells were installed during subsurface characterization activities, and soil and groundwater was analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), TPH as aviation fuel, benzene, toluene, ethylbenzene, and xylenes (BTEX), and total lead. Very low levels of petroleum hydrocarbons and MTBE were detected in soil and groundwater samples. The wells (MW-1, MW-2, and MW-3) were installed to the south-southeast (down-gradient) of the former UST excavation, and were monitored along with an inactive water well (WS-1) on a semi-annual or annual basis depending on historical analytical data from 2000 through 2005.

According to the analytical results cited in the most recent groundwater monitoring report (*Groundwater Monitoring Report-April 2005 Event*, Edd Clark & Associates, June 28, 2005), the only analyte detected in groundwater samples collected for the April event was MTBE at 33 micrograms per liter (ug/L) in MW-2. The highest concentration of MTBE detected from MW-2 over the last three years was 66 ug/L in October 2002. With the exception of low levels of toluene, ethylbenzene, and/or xylenes during the preceding monitoring events in 2002 and 2003, none of the other contaminants of potential concern had been detected in groundwater samples over the last several consecutive sampling events. In addition, based on a time series history of analytical results for groundwater from MW-2, MTBE concentrations in groundwater in MW-2 was calculated to reach the risk-based screening level of 5.0 ug/L for sites where groundwater is a current or potential source of drinking water by 2008. Based on this information, the NCDEM issued a Case Closed status for the site on August 30, 2007.

Based on this information, no further action appears warranted at this time; however, the user of this report should be aware that limited contamination may remain in the subsurface.

4.1.2 FIRE DEPARTMENT

On March 22, 2013, AEI contacted the Calistoga Fire Department (CFD) for information on the subject property to identify any evidence of previous or current hazardous material usage.

The CFD referred AEI to the NCEHD for information regarding current or prior use or storage of hazardous materials. Refer to Section 4.1.1 above.

4.1.3 BUILDING DEPARTMENT

On April 1, 2013, AEI contacted the Calistoga Building Department (CBD) for information on the subject property in order to identify historical tenants and property use. Please refer to the following table for a listing of permits reviewed:

Building Permits Reviewed: 1506 Lincoln Avenue

Year(s)	Owner/Applicant	Description of Permit/Building Use
1989	Not provided	Addition/Commercial
1990	Not provided	Letter from BACE Geotechnical Re: Backfilling of former UST excavations has been properly performed/Commercial
1990	John Merchant	Install Refrigeration Equipment/Commercial
1993	Palisades Market	Install Gas Line for Heater/Commercial
1993	Palisades Market	Replace Furnace/Commercial
1994	Joel Gott	Canvas Awning/Commercial

Year(s)	Owner/Applicant	Description of Permit/Building Use
1994	Palisades Market	Remodel Existing Deli/Commercial
1997	Joel Gott	Install Hood/Commercial
1999	Joel Gott	Reroof Big Daddy's/Commercial
2001	Palisades Market	Apply urethane foam roof over existing metal roof/Commercial
2009	Merchant	Various tenant improvement permits/Commercial

Building Permits Reviewed: 1510 Lincoln Avenue

Year(s)	Owner/Applicant	Description of Permit/Building Use
1987	Glen Pope	Electrical/Commercial
1990	Al Dobbs	Construct One-Hour Wash/Commercial
1991	Not Documented	Plumbing, Replace Flooring Tiles, Paint/Commercial
2002	Paul Block	Plan Review showing map with manufacturing area and finishing room/Commercial
2002	Wheeler Enterprises Brent Wheeler	Relocated Electrical Outlet, Repair Drywall/Commercial

Building Permits Reviewed: 1514 Lincoln Avenue

Year(s)	Owner/Applicant	Description of Permit/Building Use
1988	W. Fox	New Hangar and Storage Warehouse for Private Use/Commercial

Building Permits Reviewed: 1522 Lincoln Avenue

Year(s)	Owner/Applicant	Description of Permit/Building Use
1990	Ana's Drive-In	Plan Info for Ana's Drive-In Restaurant/Commercial
1991	Not Documented	Electrical for Christmas Tree Lot/Commercial
1999	Joel Gott	Reroof for Big Daddy's/Commercial
1999	Fred's Automatic Refresher	Water heater/Commercial
2001	Fred's Refresher	Reroof/Commercial
2002	Pat Merchant	Roof-mounted AC units/Commercial
2002	Pat Merchant	Reroof/Commercial

No information indicating current or prior use or storage of hazardous materials, or the existence of AULs was on file for the subject property with the CBD.

4.1.4 PLANNING DEPARTMENT

On April 1, 2013, AEI contacted the Calistoga Planning Department (CPD) for information on the subject property in order to identify AULs associated with the subject property.

No information indicating the existence of AULs was on file for the subject property with the CPD.

4.1.5 COUNTY ASSESSOR OFFICE

On March 22, 2013, AEI contacted the Napa County assessor's office for information on the subject property in order to determine the earliest recorded date of development and use.

According to the Napa County assessor's office, the earliest recorded date of development on subject property was 1975, and the subject property was utilized for commercial purposes.

4.1.6 DEPARTMENT OF OIL AND GAS

Department of Oil, Gas, and Geothermal Resources (DOGGR) maps concerning the subject Department of Oil and Gas (DOG) maps concerning the subject property and nearby properties were reviewed. DOG maps contain information regarding oil and gas development.

According to the DOG map, there are no oil or gas wells within 500 feet of the subject property. No environmental concerns were noted during the DOG map review.

4.1.7 OTHER AGENCIES SEARCHED

On March 22, 2013, AEI accessed the State Water Resources Control Board (SWRCB) GeoTracker Database for information on the subject property and nearby sites of concern. Files on this agency database may contain information regarding hazardous materials storage, as well as information regarding unauthorized releases of petroleum hydrocarbons or other contaminants that may affect the soil or groundwater in the area.

According to information obtained from the SWRCB GeoTracker Database, the subject property, identified as Merchant Property (1506 Lincoln Avenue), was listed as a LUST site with case closure granted in 1996. Additionally, the subject property, identified as Calistoga Gliderport (1546 Lincoln Avenue), was listed as a LUST site with case closure granted in 2007.

Refer to Sections 4.1.1 and 5.1 for additional information regarding these two release incidents. Information regarding adjacent sites of concern has been integrated into Section 5.1 of this report.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted Environmental Data Resources (EDR) to conduct a search of federal, state, tribal, and local databases containing known and suspected sites of environmental contamination. The number of listed sites identified within the approximate minimum search distance (AMSD) from the Federal and State environmental records database listings specified in ASTM Standard E 1527-05 are summarized in the following table. A copy of the regulatory database report is included in Appendix B of this report.

The subject property, identified as Calistoga Gliderport (1546 Lincoln Avenue), was identified in the regulatory database as a LUST, UST, HIST Cortese, Envirostor, and HAZNET site. The subject property, identified as Merchant Property (1506 Lincoln Avenue), was identified in the regulatory database as a LUST, UST, and HIST Cortese site. Refer to Section 5.1 below.

In determining if a site is a potential environmental concern to the subject property in the records summary table below, AEI has applied the following criteria to classify the site(s) as low concern: 1) the site(s) only hold an operating permit (which does not imply a release), 2) the site(s) have been granted "No Further Action" by the appropriate regulatory agency, and/or 3) based upon AEI's review, the distance and/or topographic position relative to the subject property reduce the level of risk associated with the site(s).

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Subject Property Listed	Total Number of Listings	Potential Environmental Concern to the Subject Property (Yes/No)
NPL	1	No	0	
DELISTED NPL	0.5	No	0	
CERCLIS	0.5	No	0	
CERCLIS NFRAP	0.5	No	0	
RCRA CORRACTS	1	No	0	
RCRA-TSD	0.5	No	0	
RCRA LG-GEN, SM-GEN, CESQGs, VGN, NLR	TP/ADJ	No	0	
US ENG CONTROLS	TP	No	0	
US INST CONTROLS	TP	No	0	
ERNS	TP	No	0	
STATE/TRIBAL HWS	1	**Yes**	2	The subject property is discussed below. The remaining site does not represent a significant environmental concern.

Database	Search Distance (Miles)	Subject Property Listed	Total Number of Listings	Potential Environmental Concern to the Subject Property (Yes/No)
STATE/TRIBAL SWLF	0.5	No	0	
STATE/TRIBAL REGISTERED STORAGE TANKS	TP/ADJ	**Yes**	5	See write-ups below for the subject property site (two total listings) and two adjacent sites (three total listings).
STATE/TRIBAL LUST	0.5	**Yes**	17	See write-ups below for the subject property site (three total listings) and two adjacent sites (three total listings). The remaining sites do not represent a significant environmental concern.
STATE/TRIBAL ENG-INST CONTROLS	TP	No	0	
STATE/TRIBAL VCP	0.5	No	0	
STATE/TRIBAL BROWNFIELD	0.5	No	0	
ORPHAN	N/A	No	10	None of the identified orphan sites are located in the immediate vicinity (500-feet) of the subject property, and therefore, these sites are not expected to represent a significant environmental concern.
NON-ASTM DATABASES	TP/ADJ	**Yes**	13	No; see write-ups below for the subject property (three total listings) and three adjacent sites (ten total listings).

Site Name: Calistoga Gliderport/Merchant Property
Database(s): LUST, UST, HIST Cortese, Envirostor, HAZNET
Address: 1546 & 1506 Lincoln Avenue
Distance: N/A (subject property)
Direction: N/A (subject property)

Comments: According to the regulatory database, the subject property, identified as the Calistoga Gliderport/Merchant Property site, was listed three times (for two releases) due to two separate releases on-site. The first LUST listing (identified as Merchant Property – 1506 Lincoln Avenue) is in reference to an unauthorized release of xylenes (most likely gasoline) that impacted the subsurface and reported in 1990. Three USTs were removed from various locations on the site, and groundwater monitoring was conducted through 1995. Based on the low risk status of the site following excavation of impacted soil, this release case received a Case Closed status from the Napa County Local Oversight Program (LOP) on January 11, 1996.

The second LUST listing (identified as Calistoga Gliderport – 1546 Lincoln Avenue) is in reference to an unauthorized release of aviation fuel and/or diesel fuel that impacted other groundwater (uses other than drinking water), discovered in 1999 during the removal of a 10,000-gallon UST. According to the most recent groundwater monitoring report on file on the SWRCB GeoTracker Database, (*Groundwater Monitoring Report, April 2005 Event*, Edd Clark & Associates), the only petroleum hydrocarbon analyte detected above Environmental Screening Levels (ESLs) was methyl tertiary butyl ether (MTBE) in monitoring well MW-2. Overall, MTBE concentrations in MW-2 had decreased from 66 ug/L (October 2002) to 15 ug/L (April 2005). Based on a time series history of analytical results for groundwater from MW-2, MTBE concentrations in groundwater were estimated to reach the ESL (5.0 ug/L) by 2008. Based on this information, the Napa County LOP issued a Case Closed status to the site on August 30, 2007.

The Envirostor listing is in reference to a drive by inspection of the site where petroleum hydrocarbon odors were detected in 1988. The two LUST release investigations followed this (historical) Envirostor status.

Refer to Section 4.1.1 for additional information regarding investigation and remediation associated with these two release cases.

Site Name: Indian Springs/Calistoga Square LLC
Database(s): CHMIRS, ENF, HAZNET
Address: 1614 & 1712 Lincoln Avenue
Distance: Adjacent
Direction: North (hydrologically upgradient)

Comments: According to the regulatory database, the Indian Springs site was twice listed as a CHMIRS site. The first listing was in reference to a spill of liquid chlorine into the on-site swimming pool when a valve malfunctioned, reported in 2007. One person was transported to the hospital and one person was treated on-site by the local fire department. The spill was reportedly cleaned up and no further action was required. The second listing was in reference to a neighboring caller whom reported that the subject property tenant was digging holes that was causing dust to enter the air ("causing discomfort and possible health problems"). The caller also stated that the dust contained boron. This complaint was reported in 2012. No action was required by the NCDEM and it does not appear that an impacted to the subsurface on-site occurred. In addition, an unrelated enforcement action was issued to the subject property for failing to submit a required report needed to determine whether permitting was necessary. Based on this information, this site is not expected to represent a significant environmental concern.

The Calistoga Square LLC site was listed as a HAZNET site due to the generation of hazardous waste in the form of asbestos-containing waste in 2005. This listing is presumably associated with on-site renovations that required the abatement and disposal of asbestos-containing building materials. No violations or release incidents were reported in association with this listing. Based on the lack of a reported release, and the current regulatory status, this site is not expected to represent a significant environmental concern.

Site Name: City of Calistoga Public Works Department Database(s): LUST, UST, HIST UST, SWEEPS UST, HIST Cortese, AST, HAZNET, and WDS Address: 414 Washington Street Distance: Adjacent (beyond a former railroad right-of-way) Direction: South (hydrologically downgradient)
Comments: According to the regulatory database, the City of Calistoga Public Works Department site was listed as a LUST site due to an unauthorized release of diesel fuel and gasoline that impacted other groundwater (uses other than drinking water), discovered in 1999 during UST removal. The site has a current regulatory status of "Open – Eligible for Closure" as of November 13, 2012. According to information obtained from the SWRCB GeoTracker Database, groundwater at this site flows to the south, away from the subject property. In addition, based on analytical results presented in the most recent groundwater monitoring report (2011) and a *Case Closure Request Report* (2012), the Napa County LOP concurred that the site meets low risk criteria, and following monitoring well destruction activities, will issue a Case Closed status for the site. Based on this information, and the estimated direction of groundwater flow, this site is not expected to represent a significant environmental concern.

Site Name: Calistoga Mineral Water/Crystal Geyser Database(s): LUST, UST, HIST Cortese Address: 500-504 Washington Street Distance: Adjacent (beyond a former railroad right-of-way) Direction: South (hydrologically downgradient)
Comments: According to the regulatory database, the Calistoga Mineral Water/Crystal Geyser site was listed as a LUST site due to an unauthorized release of diesel fuel that impacted soil only at the site. The site was subsequently issued a Case Closed status by the Napa County LOP on October 6, 1995. Based on the soil only impact, the estimated direction of groundwater flow, and the current regulatory status, this site is not expected to represent a significant environmental concern.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-05, the following interviews were performed during this investigation in order to obtain information indicating RECs in connection with the subject property.

6.1.1 INTERVIEW WITH OWNER

The subject property owner, Mr. Daniel Merchant, was contacted in person on April 1, 2013. Mr. Merchant has been associated with the subject property for 10 years. Mr. Merchant stated that past releases at the site associated with formerly operated USTs have been issued closure by the Napa County LOP. Mr. Merchant was unaware of any current environmental issues associated with the subject property. Mr. Merchant was asked if he was aware of any of the following:

Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property.		Yes	**X**	No
Any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property.		Yes	**X**	No
Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.		Yes	**X**	No
Any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality.		Yes	**X**	No

6.1.2 INTERVIEW WITH KEY SITE MANAGER

The key site manager, Mr. Daniel Merchant, was also the subject property owner. Information obtained during the interview with Mr. Merchant is presented in Section 6.1.1 above.

6.1.3 PAST OWNERS, OPERATORS AND OCCUPANTS

Interviews with past owners and occupants regarding historical onsite operations were not reasonably ascertainable. However, based on information obtained from other sources including Sanborn maps, aerial photographs, city directories, building records, assessor records, environmental records, and an interview, it is likely that the information provided by past owners and operators would have been duplicative.

6.1.4 INTERVIEW WITH OTHERS

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this section.

6.2 USER PROVIDED INFORMATION

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-05 and EPA's AAI Rule, certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the environmental professional. The responsibility for qualifying for Landowner Liability Protections (LLPs) by conducting the inquiries ultimately rests with the User, and providing the information to the environmental professional would be prudent if such information is available.

The User did not complete the ASTM User questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

6.3 PREVIOUS REPORTS AND OTHER PROVIDED DOCUMENTATION

No prior reports or relevant documentation in association with the subject property were made available to AEI during the course of this assessment.

7.0 SITE INSPECTION AND RECONNAISSANCE

On April 1, 2013, a site reconnaissance of the subject property and adjacent properties was conducted by Michael Audibert, on behalf of AEI in order to obtain information indicating the likelihood of RECs at the subject property and adjacent properties as specified in ASTM Standard Practice E1527-05 §8.4.2, 8.4.3 and 8.4.4. During the on-site reconnaissance, AEI was accompanied by Mr. Daniel Merchant, Property Owner. During the on-site reconnaissance, AEI inspected all common areas, tenant spaces, storage areas, and exterior grounds.

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

Yes	No	Observation
X		Hazardous Substances and/or Petroleum Products in Connection with Property Use
	X	Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs / USTs)
	X	Hazardous Substance and Petroleum Product Containers and Unidentified Containers not in Connection with Property Use
	X	Unidentified Substance Containers
	X	Electrical or Mechanical Equipment Likely to Contain Fluids
	X	Interior Stains or Corrosion
	X	Strong, Pungent or Noxious Odors
	X	Pools of Liquid
X		Drains, Sumps and Clarifiers
	X	Pits, Ponds and Lagoons
	X	Stained Soil or Pavement
	X	Stressed Vegetation
	X	Solid Waste Disposal or Evidence of Fill Materials
	X	Waste Water Discharges
X		Wells
	X	Septic Systems
	X	Other

The subject property is currently occupied by the Indian Springs Resort offices, a coin operated Laundromat, art studios/showrooms, and storage spaces for the Indian Springs Resort. On-site operations include retail (art) sales, storage uses, a laundry facility, and general office activities. In addition to the subject property buildings, the property is improved with a small vacant shed structure (former radio control room for former on-site landing strip), asphalt-paved walkway and parking areas, and associated landscaping in the western portion of the site. The remainder (and majority) of the site consists of undeveloped land that was historically used as an airstrip.

The above identified observed items are further discussed below.

HAZARDOUS SUBSTANCES AND/OR PETROLEUM PRODUCTS IN CONNECTION WITH PROPERTY USE

Hazardous substances and petroleum products observed on-site during the site reconnaissance were limited to routine property upkeep supplies, including various cleansers and paints, and relatively small amounts of gasoline and lubricants. All materials were stored over concrete or asphalt and no cracks, drains, or other direct conduits to the subsurface were observed in the immediate areas. Hazardous wastes are not currently generated on-site, and no vehicle maintenance or fueling is conducted on-site. Based on these observations, the presence of these materials on-site is not expected to represent a significant environmental concern.

DRAINS, SUMPS AND CLARIFIERS

Various storm drains were observed in the parking areas of the subject property. No hazardous substances or petroleum products were noted in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not expected to represent a significant environmental concern.

WELLS

One unused water well is reportedly located on the site. The depth of the well is unknown. According to the subject property owner, Mr. Daniel Merchant, the well was formerly used for irrigation and/or non-potable uses, and that potable water is currently obtained from the municipal water system. No hazardous materials or petroleum products were observed in the vicinity of the well. Based on this information, the presence of the well is not expected to represent a significant environmental concern.

7.2 NON-ASTM SERVICES

7.2.1 ASBESTOS-CONTAINING BUILDING MATERIALS

OSHA

For buildings constructed prior to 1981, the Code of Federal Regulations (29 CFR 1926.1101 and 29 CFR 1910.1001) define presumed asbestos-containing material (PACM) as 1. Thermal System Insulation (TSI), e.g., boiler insulation, pipe lagging, fireproofing; and 2. Surfacing Materials, e.g., acoustical ceilings. Building owners/employers are responsible for locating the presence and quantity of PACM. Building Owners/employers can rebut installed material as PACM by either having an inspection in accordance with Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E) or hiring an accredited inspector to take bulk samples of the suspect material.

Typical materials not covered by the presumptive rule include but are not limited to: floor tiles and adhesives, wallboard systems, siding and roofing. Building materials such as wallboard systems may contain asbestos but unless a building owner/employer has specific knowledge or should have known through the exercise of due diligence that these other materials contain asbestos, the standard does not compel the building owner to sample these materials.

NESHAP

The applicability of the EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Chapter 61, Subpart M) apply to the owner or operator of a facility where an inspection for the presence of asbestos-containing materials (ACM), including Category I (asbestos containing packings, gaskets, resilient floor coverings and asphalt roofing products), and Category II (all remaining types of non-friable asbestos containing material not included in Category I that when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure), non-friable ACM must occur prior to the commencement of demolition or renovation activities. NESHAP defines ACM as any material or product that contains *greater than* 1% asbestos. It should be noted that the NESHAP regulation applies to all facilities regardless of construction date, including: 1. Any institutional, commercial, public, industrial, or residential structure, installation, or building; 2. Any ship; and 3. Any active or inactive waste disposal site. This requirement is typically enforced by the EPA or by local air pollution control/air quality management districts.

The information below is for general informational purposes only and does not constitute an asbestos survey. In addition, the information is not intended to comply with federal, state or local regulations in regards to ACM.

Due to the age of the subject property buildings, there is a potential that ACMs are present. The condition and friability of the identified suspect ACMs is noted in the following table:

Suspect Asbestos Containing Materials (ACMs)

Material	Location	Friable	Condition
Drywall Systems	Throughout Office, Laundromat, and Art Studio/Showroom Interiors	Yes	Good
Vinyl Flooring Systems	Bathroom Areas of Art Studio/Showroom Interior	No	Good
Roofing Systems	Roofs	Not Inspected	Not Inspected

All observed suspect ACMs were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, an asbestos survey adhering to AHERA sampling protocol should be performed prior to demolition or renovation activities that may disturb suspect ACMs.

7.2.2 LEAD-BASED PAINT

Lead-based paint (LBP) is defined as any paint, varnish, stain, or other applied coating that has ≥1 mg/cm^2 (5,000 µg/g or 5,000 ppm) or more of lead by federal guidelines; state and local definitions may differ from the federal definitions in amounts ranging from 0.5 mg/cm^2 to 2.0 mg/cm^2. Section 1017 of the Housing and Urban Development (HUD) Guidelines, Residential Lead-Based Paint Hazard Reduction Act of 1992, otherwise known as "Title X", defines a LBP hazard is "any condition that causes exposure to lead that would result in adverse human health effects" resulting from lead-contaminated dust, bare, lead-contaminated soil, and/or lead-contaminated paint that is deteriorated or present on accessible, friction, or impact surfaces. Therefore, under Title X, intact lead-based paint on most walls and ceilings would not be considered a "hazard", although the paint should be maintained and its condition and monitored to ensure that it does not deteriorate and become a hazard. Additionally, Section

1018 of this law directed HUD and EPA to require the disclosure of known information on lead-based paint and lead-based paint hazards before the sale or lease of most housing built before 1978. Most private housing, public housing, federally owned or subsidized housing are affected by this rule.

Lead-containing paint (LCP) is defined as any paint with any detectable amount of lead present in it. It is important to note that LCP may create a lead hazard when being removed. The condition of these materials must be monitored when they are being disturbed. In the event LCP is subject to abrading, sanding, torching and/or cutting during demolition or renovation activities, there may be regulatory issues that must be addressed.

The information below is for general informational purposes only and does not constitute a lead hazard evaluation. In addition, the information is not intended to comply with federal, state or local regulations in regards to lead-containing paints.

In buildings constructed after 1978, it is unlikely that LBP is present. Structures built prior to 1978 and especially prior to the 1960's should be expected to contain LBP.

Due to the age of the subject property buildings, there is a potential that lead-based paint (LBP) is present. All observed painted surfaces were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. Local regulations may apply to lead-based paint in association with building demolition/renovations and worker/occupant protection. Actual material samples would need to be collected or an XRF survey performed in order to determine if LBP is present. It should be noted that construction activities that disturb materials or paints containing *any amount* of lead may be subject to certain requirements of the OSHA lead standard contained in 29 CFR 1910.1025 and 1926.62.

7.2.3 RADON

Radon is a naturally-occurring, odorless, invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

Radon sampling was not requested as part of this investigation. According to the Department of Health Services (DHS) Radon Database for California for 2002, for ten (10) total radon tests conducted for the subject property zip code (94515), all ten (10) of the tests indicated an average indoor screening level below the action level of 4.0 pCi/L set forth by the EPA. Based on these results, radon does not appear to be a concern. However, testing is required to determine site-specific radon levels.

7.2.4 DRINKING WATER SOURCES AND LEAD IN DRINKING WATER

The City of Calistoga supplies potable water to the subject property. The most recent water quality report states that lead levels in the areas water supply were well within standards established by the USEPA.

7.2.5 MOLD / INDOOR AIR QUALITY ISSUES

Molds are simple, microscopic organisms, which can often be seen in the form of discoloration, frequently green, gray, white, brown or black. When excessive moisture or water accumulates indoors, mold growth will often occur, particularly if the moisture problem remains undiscovered or is not addressed. As such, interior areas of buildings characterized by poor ventilation and high humidity are the most common locations of mold growth. Building materials including drywall, wallpaper, baseboards, wood framing, insulation, and carpeting often play host to such growth. Mold spores primarily cause health problems through the inhalation of mold spores or the toxins they emit when they are present in large numbers. This can occur primarily when there is active mold growth within places where people live or work.

Mold, if present, may or may not visually manifest itself. Neither the individual completing this inspection, nor AEI has any liability for the identification of mold-related concerns except as defined in applicable industry standards. In short, this Phase I ESA should not be construed as a mold survey or inspection.

AEI Consultants observed interior areas of the subject buildings in order to identify the significant presence of mold. AEI did not note obvious visual or olfactory indications of the presence of mold, nor did AEI observe obvious indications of significant water damage. As such, no bulk sampling of suspect surfaces was conducted as part of this assessment and no additional action with respect to mold appears to be warranted at this time.

This activity was not designed to discover all areas which may be affected by mold growth on the subject property. Rather, it is intended to give the client an indication if significant (based on observed areas) mold growth is present at the subject property. Additional areas of mold not observed as part of this limited assessment, possibly in pipe chases, HVAC systems and behind enclosed walls and ceilings, may be present on the subject property.

7.3 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

Yes	No	Observation
	X	Hazardous Substances and/or Petroleum Products in Connection with Property Use
	X	Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs / USTs)
	X	Hazardous Substance and Petroleum Product Containers and Unidentified Containers not in Connection with Property Use
	X	Unidentified Substance Containers
X		Electrical or Mechanical Equipment Likely to Contain Fluids
	X	Strong, Pungent or Noxious Odors
	X	Pools of Liquid
X		Drains, Sumps and Clarifiers
	X	Pits, Ponds and Lagoons
	X	Stained Soil or Pavement
	X	Stressed Vegetation
	X	Solid Waste Disposal or Evidence of Fill Materials
	X	Waste Water Discharges
	X	Wells
	X	Septic Systems
	X	Other

The above identified observed items are further discussed below.

ELECTRICAL OR MECHANICAL EQUIPMENT LIKELY TO CONTAIN FLUIDS

Toxic polychlorinated biphenyls (PCBs) were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: <50 ppm of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and >500 ppm is considered "PCB-Containing". Pursuant to 15 U.S.C. 2605(e)(2)(A), the manufacture, process, or distribution in commerce or use of any polychlorinated biphenyl in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Transformers

The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

Various pole- and pad-mounted transformers were observed on the adjacent sites to the north, south, and west during the site inspection. No spills, staining or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

DRAINS, SUMPS AND CLARIFIERS

Various drains were observed in the adjacent city street and parking areas of the adjacent properties during our site inspection. No hazardous substances or petroleum products were noted in the vicinity of the drains. Based on the use of the drains solely for storm water runoff, the presence of the drains is not suspected to represent a significant environmental concern.

8.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

By signing this report, the senior author declares that, to the best of his or her professional knowledge and belief, he or she meets the definition of *Environmental Professional* as defined in §312.10 of 40 CFR Part 312.

The senior author has the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. The senior author has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40CFR Part 312.

Prepared By:

Michael Audibert
Associate Consultant

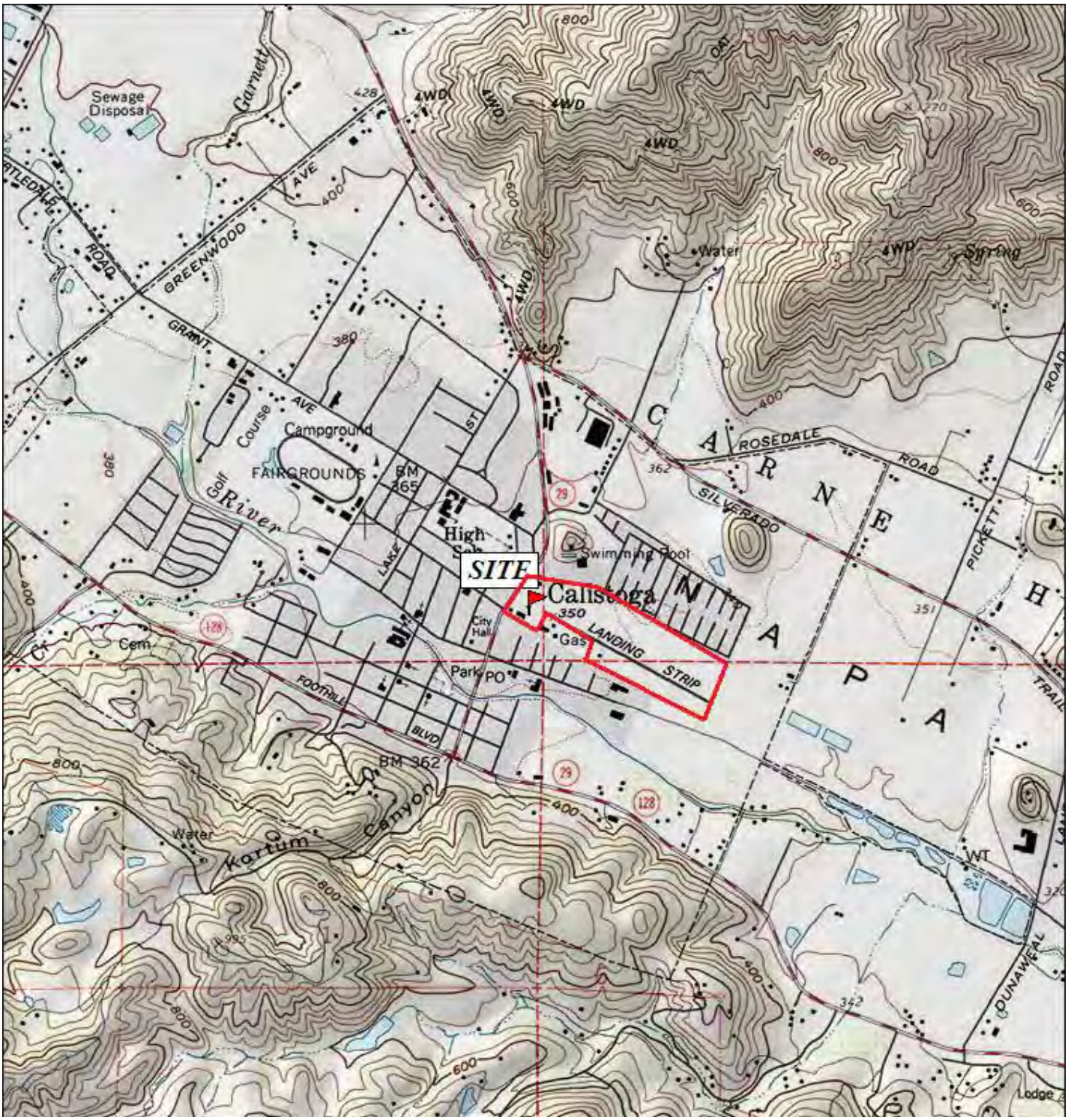
Reviewed By:

Brie Solaegui
Senior Author

9.0 REFERENCES

Item	Date(s)	Source
Topographic Map	2003	United States Geological Survey (USGS)
Regulatory Database	March 25, 2013	Environmental Data Resources, Inc. (EDR)
Sanborn Maps	1910, 1924, & 1934	Seattle Public Library On-line Collection
Aerial Photographs	1957, 1965, 1982, 1993, 2012	USGS and Google Earth
City Directories	1956 - 2010	Napa Public Library
Building Records	1987 – present	Calistoga Building Department
Assessor Records	March 2013	Napa County Assessor
Environmental Records	March 2013	Napa County Department of Environmental Management, Calistoga Fire Department, State Water Resources Control Board GeoTracker Database
Interview	April 1, 2013	Mr. Daniel Merchant, Subject Property Owner
Soil Survey	April 2013	USGS NCRS Website
Radon Data	October 2002	CA DHS Radon Database

FIGURES



SITE LOCATION MAP

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

FIGURE 1

Source: USGS (2003)

Project Number: 317822

AEI Consultants

SITE MAP

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Legend

Approximate Property Boundary

Listed in the Regulatory Database (*)

FIGURE 2

Project Number: 317822

AEI Consultants

SITE MAP

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Legend

Approximate Property Boundary

FIGURE 2A

Project Number: 317822

AEI Consultants

APPENDIX A

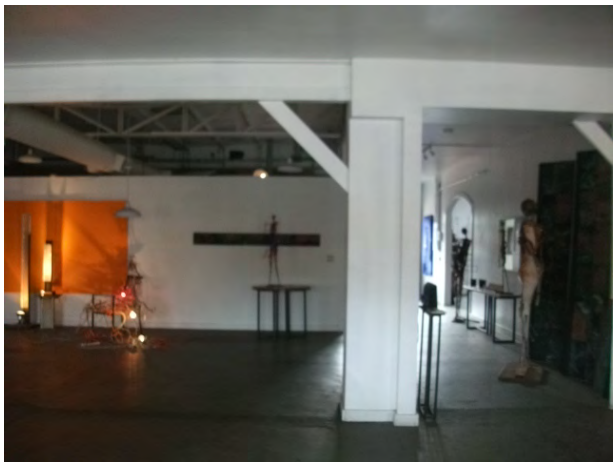
PROPERTY PHOTOGRAPHS

1. View of the subject property from the north.

2. View of the subject property office building.

3. View of the subject property Laundromat building.

4. View of the subject property hanger buildings.



5. View of the subject property main art studio/showroom interior.

6. View of the smaller art studio within a former hanger building.

7. View of a vacant subject property building.

8. View of the undeveloped area of the subject property (former airstrip).

9. View of a typical storage area (within a former hanger building).

10. View of additional storage space.

11. View of subject property routine property upkeep supplies.

12. View of subject property flammable materials storage.

13. View of the adjacent properties north (The Lodge & Indian Springs Resort).

14. View of the adjacent property east (undeveloped and/or agricultural land).

15. View of adjacent properties south (former railroad depot area with market).

16. View of additional adjacent properties south (former hanger buildings used as shops and storage).

17. View of an additional adjacent property south (hotel building).

18. View of adjacent properties west (offices and residences) beyond Lincoln Avenue.

19. View of an additional adjacent property west (hotel) beyond Lincoln Avenue.

20. View of an additional adjacent property west (market) beyond Lincoln Avenue.

APPENDIX B

REGULATORY DATABASE

317822
1502,1506,1510,1522 & 1546 Lincoln Avenue
Calistoga, CA 94515

Inquiry Number: 3554781.1s
March 25, 2013

The EDR Radius Map™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1502,1506,1510,1522 & 1546 LINCOLN AVENUE
CALISTOGA, CA 94515

COORDINATES

Latitude (North):	38.5785000 - 38˚ 34' 42.60''
Longitude (West):	122.5722000 - 122˚ 34' 19.92''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	537263.8
UTM Y (Meters):	4269883.5
Elevation:	339 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38122-E5 CALISTOGA, CA
Most Recent Revision:	1998

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CALISTOGA GLIDERPORT 1546 LINCOLN AVE CALISTOGA, CA 94515	LUST UST	N/A
CALISTOGA GLIDER PORT 1546 LINCOLN AVE CALISTOGA, CA 94515	HIST CORTESE LUST Status: Completed - Case Closed HAZNET ENVIROSTOR Status: Refer: Other Agency	N/A
MERCHANT PROPERTY 1506 LINCOLN AVE CALISTOGA, CA 94515	HIST CORTESE LUST Status: Completed - Case Closed UST	N/A

EXECUTIVE SUMMARY

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

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

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-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

EXECUTIVE SUMMARY

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

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

SLIC..... Statewide SLIC Cases
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

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

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
Toxic Pits..... Toxic Pits Cleanup Act Sites
CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Environmental Liens Listing
DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

EXECUTIVE SUMMARY

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
CA BOND EXP. PLAN	Bond Expenditure Plan
UIC	UIC Listing
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
Notify 65	Proposition 65 Records
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
HWT	Registered Hazardous Waste Transporter Database
HWP	EnviroStor Permitted Facilities Listing
Financial Assurance	Financial Assurance Information Listing
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
PRP	Potentially Responsible Parties
WDS	Waste Discharge System
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
PROC	Certified Processors Database
MWMP	Medical Waste Management Program Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VALLEY BUSINESS FORMS INC	***1311 FAIR WAY***	***WNW 0 - 1/8 (0.082 mi.)***	***11***	***23***
CALISTOGA AUTO PARTS INC	***1318 LINCOLN AVE***	***W 1/8 - 1/4 (0.195 mi.)***	***E16***	***32***
PACIFIC BELL	***1310 LINCOLN AVENUE***	***W 1/8 - 1/4 (0.202 mi.)***	***E18***	***34***

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 12/05/2012 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GALLIS TRUST PROPERTY Status: No Further Action	***1834 MONEY LANE***	***NNW 1/2 - 1 (0.619 mi.)***	***29***	***67***

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/30/2013 has revealed that there are 14 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY FIRE DEPT	***1113 WASHINGTON ST***	***W 0 - 1/8 (0.109 mi.)***	***12***	***25***
Status: Completed - Case Closed				
CALISTOGA CITY POLICE FACILITY	***1235 WASHINGTON ST***	***W 0 - 1/8 (0.120 mi.)***	***D14***	***31***
Status: Completed - Case Closed				
BIRLEFFI MOTORS INC	***1856 LINCOLN AVE***	***NNW 1/4 - 1/2 (0.264 mi.)***	***20***	***38***
Status: Completed - Case Closed				
CALISTOGA HIGH SCHOOL	***1608 LAKE ST***	***NW 1/4 - 1/2 (0.288 mi.)***	***21***	***43***
Status: Completed - Case Closed				
BENNY'S EXXON GAS SERVICE STN	***1020 FOOTHILL***	***SW 1/4 - 1/2 (0.349 mi.)***	***22***	***47***
Status: Completed - Case Closed				
SHELL OIL CO	***1108 LINCOLN AVE/FOOTHI***	***WSW 1/4 - 1/2 (0.352 mi.)***	***F23***	***53***
Status: Completed - Case Closed				
CHEVRON	1107 FOOTHILL BLVD	WSW 1/4 - 1/2 (0.356 mi.)	F24	58
CHEVRON	***1107 FOOTHILL BLVD***	***WSW 1/4 - 1/2 (0.356 mi.)***	***F25***	***58***
Status: Completed - Case Closed				
TOSCO - FACILITY #0534	***1202 FOOTHILL BLVD***	***WSW 1/4 - 1/2 (0.357 mi.)***	***F26***	***60***
Status: Open - Remediation				
CONOCO PHILLIPS #250534	***1202 FOOTHILL BLVD***	***WSW 1/4 - 1/2 (0.357 mi.)***	***F27***	***65***
VITKOVSKY PROPERTY	***411 FOOTHILL BLVD***	***SSW 1/4 - 1/2 (0.467 mi.)***	***28***	***66***
Status: Completed - Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY PUB WKS DEPT	414 WASHINGTON ST	SSE 0 - 1/8 (0.039 mi.)	B5	15
PUBLIC WORKS CITY OF CALISTOGA	***414 WASHINGTON***	***SSE 0 - 1/8 (0.039 mi.)***	***B7***	***16***
Status: Open - Eligible for Closure				
CALISTOGA MINERAL WATER	***504 WASHINGTON ST***	***SSW 0 - 1/8 (0.053 mi.)***	***C10***	***21***
Status: Completed - Case Closed				

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, and dated 12/17/2012 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY FIRE DEPT	***1113 WASHINGTON ST***	***W 0 - 1/8 (0.109 mi.)***	***12***	***25***
CALISTOGA CITY POLICE FACILITY	***1235 WASHINGTON ST***	***W 0 - 1/8 (0.120 mi.)***	***D14***	***31***
ABE NEWMAN ET AL	1400 WASHINGTON ST.	W 1/8 - 1/4 (0.167 mi.)	15	32

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY PUBLIC WORKS DE	***414 WASHINGTON ST***	***SSE 0 - 1/8 (0.039 mi.)***	***B6***	***15***
CRYSTAL GEYSER	500 WASHINGTON STREET	SSW 0 - 1/8 (0.052 mi.)	C9	21

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF CALISTOGA PWMY GWTS	***414 WASHINGTON ST***	***SSE 0 - 1/8 (0.039 mi.)***	***B8***	***20***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY FIRE DEPT	***1113 WASHINGTON ST***	***W 0 - 1/8 (0.109 mi.)***	***12***	***25***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY PUBLIC WORKS DE	***414 WASHINGTON ST***	***SSE 0 - 1/8 (0.039 mi.)***	***B6***	***15***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY FIRE DEPT	***1113 WASHINGTON ST***	***W 0 - 1/8 (0.109 mi.)***	***12***	***25***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY PUBLIC WORKS DE	***414 WASHINGTON ST***	***SSE 0 - 1/8 (0.039 mi.)***	***B6***	***15***

Other Ascertainable Records

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 12/31/2011 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA RADIO BEACON ANNEX		0 - 1/8 (0.000 mi.)	4	14

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 11 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALISTOGA CITY FIRE DEPT	*1113 WASHINGTON ST*	*W 0 - 1/8 (0.109 mi.)*	*12*	*25*
CALISTOGA WW TREATMENT PLANT	*1232 WASHINGTON ST*	*W 0 - 1/8 (0.118 mi.)*	*D13*	*27*
BIRLEFFI MOTORS INC	*1856 LINCOLN AVE*	*NNW 1/4 - 1/2 (0.264 mi.)*	*20*	*38*
CALISTOGA HIGH SCHOOL	*1608 LAKE ST*	*NW 1/4 - 1/2 (0.288 mi.)*	*21*	*43*
BENNY'S EXXON GAS SERVICE STN	*1020 FOOTHILL*	*SW 1/4 - 1/2 (0.349 mi.)*	*22*	*47*
SHELL OIL CO	*1108 LINCOLN AVE/FOOTHI*	*WSW 1/4 - 1/2 (0.352 mi.)*	*F23*	*53*
CHEVRON	*1107 FOOTHILL BLVD*	*WSW 1/4 - 1/2 (0.356 mi.)*	*F25*	*58*
TOSCO - FACILITY #0534	*1202 FOOTHILL BLVD*	*WSW 1/4 - 1/2 (0.357 mi.)*	*F26*	*60*
VITKOVSKY PROPERTY	*411 FOOTHILL BLVD*	*SSW 1/4 - 1/2 (0.467 mi.)*	*28*	*66*

Lower Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS CITY OF CALISTOGA	*414 WASHINGTON*	*SSE 0 - 1/8 (0.039 mi.)*	*B7*	*16*
CALISTOGA MINERAL WATER	*504 WASHINGTON ST*	*SSW 0 - 1/8 (0.053 mi.)*	*C10*	*21*

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: 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.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there is 1 EDR US

EXECUTIVE SUMMARY

Hist Auto Stat site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1318 LINCOLN AVE	W 1/8 - 1/4 (0.195 mi.)	E17	34

EDR US Hist 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.

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

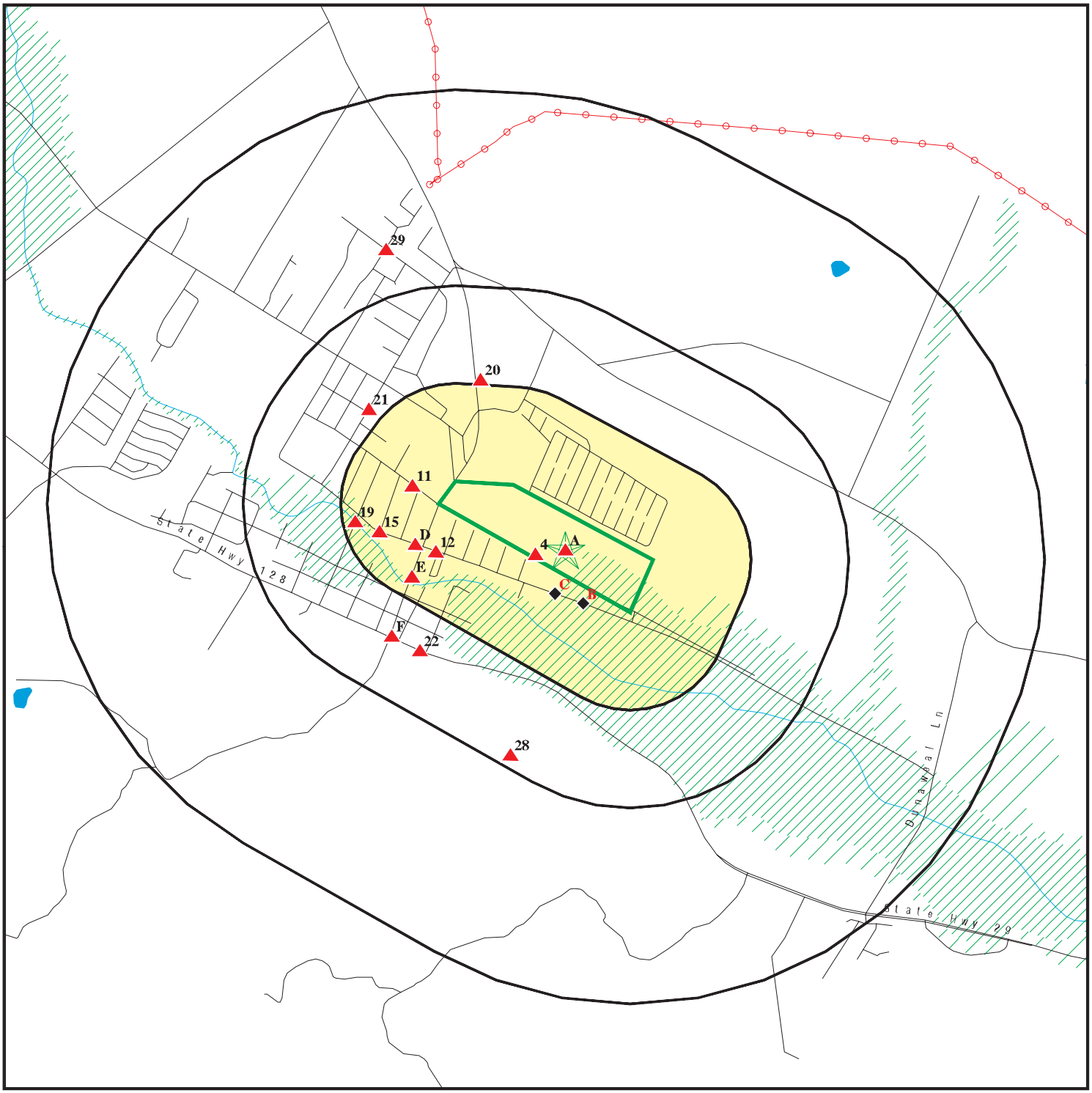
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1341 BERRY ST	W 1/8 - 1/4 (0.218 mi.)	19	38

EXECUTIVE SUMMARY

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

Site Name	Database(s)
4365 HIGHWAY 29	Cortese, SLIC, ENF
WRIGHT PROPERTY	HIST CORTESE, LUST
SUZIE'S ON THE MOUNTAIN	HIST CORTESE, LUST
LAFRANCHI BROS	SWEEPS UST
STERLING VINEYARDS/VINEYARD SH	SWEEPS UST
CHAS. HAFEY	SWEEPS UST
JACKSON RESIDENCE	LUST
FACILITY 49-000-006158	UST
LOGVY PROPERTY	UST
CALISTOGA RAD BEA ANNEX	ENVIROSTOR

OVERVIEW MAP - 3554781.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 317822 ADDRESS: 1502,1506,1510,1522 & 1546 Lincoln Avenue Calistoga CA 94515 LAT/LONG: 38.5785 / 122.5722	CLIENT: AEI Consultants CONTACT: Karina Garcia INQUIRY #: 3554781.1s DATE: March 25, 2013 4:02 pm

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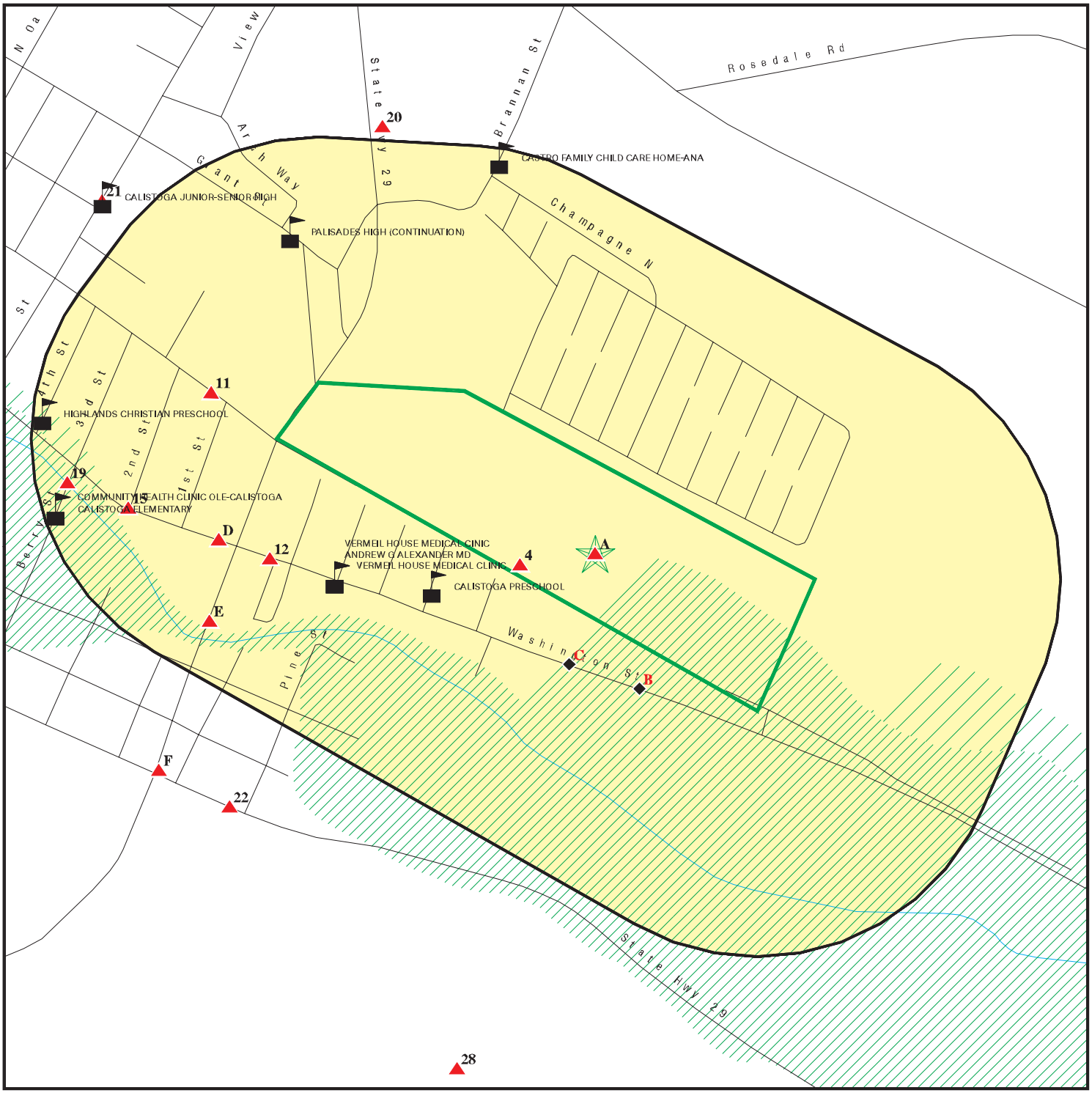
DETAIL MAP - 3554781.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 317822	CLIENT: AEI Consultants
ADDRESS: 1502,1506,1510,1522 & 1546 Lincoln Avenue Calistoga CA 94515	CONTACT: Karina Garcia INQUIRY #: 3554781.1s
LAT/LONG: 38.5785 / 122.5722	DATE: March 25, 2013 4:04 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	2	NR	NR	NR	3
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	0	0	0	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	3	5	0	9	NR	NR	17

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250	2	4	1	NR	NR	NR	7
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		2	0	NR	NR	NR	2
SWEEPS UST	0.250		2	0	NR	NR	NR	2
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		1	0	0	0	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500	2	4	0	7	NR	NR	13
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	1	NR	NR	NR	1
EDR US Hist Cleaners	0.250		0	1	NR	NR	NR	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **CALISTOGA GLIDERPORT**
1546 LINCOLN AVE
CALISTOGA, CA 94515 | **LUST** | **U003114807**
UST | **N/A**

Site 1 of 3 in cluster A

Actual: 339 ft.

LUST REG 2:

Region:	2
Facility Id:	28-0346
Facility Status:	Leak being confirmed
Case Number:	0345b
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	1/2/1965
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

NAPA CO. UST:

Facility ID:	NAPA0345
Num of Tanks:	0

A2 Target Property | **CALISTOGA GLIDER PORT**
1546 LINCOLN AVE
CALISTOGA, CA 94515 | **HIST CORTESE**
LUST
HAZNET
ENVIROSTOR | **S103954396**
N/A

Site 2 of 3 in cluster A

Actual: 339 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0030

LUST:

Region:	STATE
Global Id:	T0605500029
Latitude:	38.580611
Longitude:	-122.576796
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/30/2007
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0030
LOC Case Number:	0345
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Aviation, Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CALISTOGA GLIDER PORT (Continued) **S103954396**

LUST:

Global Id:	T0605500029
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

Global Id:	T0605500029
Contact Type:	Regional Board Caseworker
Contact Name:	KENT AUE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	kaue@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605500029
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500029
Action Type:	ENFORCEMENT
Date:	02/10/1990
Action:	* Historical Enforcement

Global Id:	T0605500029
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0605500029
Action Type:	ENFORCEMENT
Date:	12/03/2003
Action:	LOP Case Closure Summary to RB

Global Id:	T0605500029
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

Global Id:	T0605500029
Action Type:	ENFORCEMENT
Date:	03/07/2007
Action:	Staff Letter

Region:	STATE
Global Id:	T0605591134
Latitude:	38.578323
Longitude:	-122.572943
Case Type:	LUST Cleanup Site

CALISTOGA GLIDER PORT (Continued) **S103954396**

Status:	Completed - Case Closed
Status Date:	08/30/2007
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0346
LOC Case Number:	0345b
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605591134
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

Global Id:	T0605591134
Contact Type:	Regional Board Caseworker
Contact Name:	KENT AUE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	kaue@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605591134
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

NAPA CO. LUST:

Permit ID:	4633
Job Number:	22-00345
Status:	Closed
Permit Type:	LOP
District:	3

LUST REG 2:

Region:	2
Facility Id:	28-0030
Facility Status:	Suspension of Work Letter from Cleanup Fund
Case Number:	0345
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	1/10/1990

CALISTOGA GLIDER PORT (Continued) **S103954396**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/30/1993
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HAZNET:

Year: 2003
Gepaid: CAC002570906
Contact: LINDA EBRIGHT EXT 11
Telephone: 7079429035
Mailing Name: Not reported
Mailing Address: 1546 LINCOLN AVE
Mailing City,St,Zip: CALISTOGA, CA 94515
Gen County: Napa
TSD EPA ID: CAD028409019
TSD County: Napa
Waste Category: Unspecified aqueous solution
Disposal Method: Treatment, Tank
Tons: 0.25
Facility County: Napa

Year: 1998
Gepaid: CAC001487080
Contact: PATRICIA MERCHANT
Telephone: 4159217869
Mailing Name: Not reported
Mailing Address: 1712 LINCOLN AVE
Mailing City,St,Zip: CALISTOGA, CA 945150000
Gen County: Napa
TSD EPA ID: CAL000161743
TSD County: Santa Clara
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: 3.5445
Facility County: Napa

ENVIROSTOR:

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 28450001
Site Code: Not reported
Assembly: 04
Senate: 03
Special Program: * Rural County Survey Program
Status: Refer: Other Agency
Status Date: 05/03/1994

CALISTOGA GLIDER PORT (Continued) **S103954396**

Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.57812
Longitude: -122.5723
APN: 011340016000
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 011340016000
Alias Type: APN
Alias Name: 28450001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/18/1988
Comments: FACILITY IDENTIFIED DHS DRIVE-BY STRONG PETROLEUM ODOR ALONG WEST SIDE SITE SCREENING DONE PAM REQ BASED ON DB. SEND Q

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/18/1988
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

A3 Target Property | **MERCHANT PROPERTY** | **HIST CORTESE** | **U003114806**
1506 LINCOLN AVE | **LUST** | **N/A**
CALISTOGA, CA 94515 | **UST**

Site 3 of 3 in cluster A

Actual: 339 ft.

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0326

LUST:
Region: STATE
Global Id: T0605500280
Latitude: 38.580266
Longitude: -122.577977
Case Type: LUST Cleanup Site
Status: Completed - Case Closed

MERCHANT PROPERTY (Continued) **U003114806**

Status Date:	01/11/1996
Lead Agency:	NAPA COUNTY LOP
Case Worker:	ZZZ
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0326
LOC Case Number:	0393
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Xylene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500280
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD ST., ROOM 101
City:	NAPA
Email:	Not reported
Phone Number:	7072534269

Global Id:	T0605500280
Contact Type:	Regional Board Caseworker
Contact Name:	MARY ROSE CASSA
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	mcassa@waterboards.ca.gov
Phone Number:	5106222447

LUST:

Global Id:	T0605500280
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500280
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0605500280
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

NAPA CO. LUST:

Permit ID:	4608
Job Number:	22-00393
Status:	Closed
Permit Type:	LOP
District:	3

MERCHANT PROPERTY (Continued) **U003114806**

LUST REG 2:

Region:	2
Facility Id:	28-0326
Facility Status:	Case Closed
Case Number:	0393
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

NAPA CO. UST:

Facility ID:	NAPA0393
Num of Tanks:	0

---

4 **CALISTOGA RADIO BEACON ANNEX** **FUDS** **1012129650**
N/A

< 1/8
1 ft.

CALISTOGA, CA

Relative:
Higher

Actual:
342 ft.

FUDS:

Federal Facility ID:	CA9799F5704
FUDS #:	J09CA0763
INST ID:	61247
Facility Name:	CALISTOGA RADIO BEACON ANNEX
City:	CALISTOGA
State:	CA
EPA Region:	09
County:	NAPA
Congressional District:	01
US Army District:	Sacramento District (SPK)
Fiscal Year:	2011
Telephone:	916-557-7461
NPL Status:	Not Listed
RAB:	Not reported
CTC:	10
Current Owner:	PRIVATE
Current Prog:	Not reported
Future Prog:	Not reported
Description:	The 0.80-acre site is located in Napa County, CA, approximately 12 miles northeast of Santa Rosa. The site is currently owned by a private resident and used as a storage facility. On 27 January 1955, the U.S. Air Force leased a total of 0.80 acre from a private resident. The site was called Calistoga Radio Beacon Annex and was used by the Air Force Defense Command in the 6th Army area. The lease was terminated on 7 July 1962. After Department of Defense occupancy, the site was sold to a private resident who later sold it to another private resident. There are no potential hazards related to Department of Defense activities identified at this site.

B5 SSE < 1/8 0.039 mi. 208 ft. | **CALISTOGA CITY PUB WKS DEPT** | **LUST** | **S104025349**
414 WASHINGTON ST | **N/A**
CALISTOGA, CA 94515

Site 1 of 4 in cluster B

Relative: Lower

Actual: 332 ft.

LUST REG 2:

Region:	2
Facility Id:	28-0303
Facility Status:	Remediation Plan
Case Number:	0031
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Tank
Date Leak Confirmed:	2/2/1999
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	1/1/2000
Pollution Remediation Plan Submitted:	7/1/2002
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

B6 SSE < 1/8 0.039 mi. 208 ft. | **CALISTOGA CITY PUBLIC WORKS DE** | **UST** | **U001596417**
414 WASHINGTON ST | **HIST UST** | **N/A**
CALISTOGA, CA 94515 | **SWEEPS UST**

Site 2 of 4 in cluster B

Relative: Lower

Actual: 332 ft.

NAPA CO. UST:

Facility ID:	NAPA0031
Num of Tanks:	0

HIST UST:

Region:	STATE
Facility ID:	00000037744
Facility Type:	Other
Other Type:	CITY
Total Tanks:	0002
Contact Name:	ROBT. BOMAR
Telephone:	7079425188
Owner Name:	CITY OF CALISTOGA
Owner Address:	1232 WASHINGTON ST.
Owner City,St,Zip:	CALISTOGA, CA 94515
Tank Num:	001
Container Num:	#1
Year Installed:	1979
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	#2
Year Installed:	1979
Tank Capacity:	00001000
Tank Used for:	PRODUCT

CALISTOGA CITY PUBLIC WORKS DE (Continued) **U001596417**

Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 37744
Number: 4
Board Of Equalization: 44-015421
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 06-30-89
Tank Status: A
Owner Tank Id: #1
Swrcb Tank Id: 28-000-037744-000001
Actv Date: 07-01-85
Capacity: 2000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: Active
Comp Number: 37744
Number: 4
Board Of Equalization: 44-015421
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 06-30-89
Tank Status: A
Owner Tank Id: #2
Swrcb Tank Id: 28-000-037744-000002
Actv Date: 07-01-85
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

B7 **PUBLIC WORKS CITY OF CALISTOGA** **HIST CORTESE** **S102810826**
SSE **414 WASHINGTON** **LUST** **N/A**
< 1/8 **CALISTOGA, CA 94515** **HAZNET**
0.039 mi.
208 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
332 ft.

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0303

LUST:
Region: STATE
Global Id: T0605500259
Latitude: 38.57705
Longitude: -122.572639
Case Type: LUST Cleanup Site

PUBLIC WORKS CITY OF CALISTOGA (Continued) **S102810826**

Status:	Open - Eligible for Closure
Status Date:	11/13/2012
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0303
LOC Case Number:	0031
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500259
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

Global Id:	T0605500259
Contact Type:	Regional Board Caseworker
Contact Name:	KENT AUE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	kaue@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605500259
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Pump & Treat (P&T) Groundwater

Global Id:	T0605500259
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500259
Action Type:	ENFORCEMENT
Date:	03/08/2011
Action:	Staff Letter

Global Id:	T0605500259
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0605500259
Action Type:	REMEDIATION
Date:	01/01/1950

PUBLIC WORKS CITY OF CALISTOGA (Continued) **S102810826**

Action: Excavation

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 03/13/2012
Action: Staff Letter

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 12/10/2012
Action: Staff Letter

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 04/06/2010
Action: Staff Letter

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 12/23/2008
Action: Staff Letter

Global Id: T0605500259
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 06/25/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 02/02/2009
Action: Staff Letter

Global Id: T0605500259
Action Type: ENFORCEMENT
Date: 09/14/2009
Action: Staff Letter

NAPA CO. LUST:
Permit ID: 4593
Job Number: 22-00413
Status: Closed
Permit Type: LOP
District: 3

Permit ID: 4813
Job Number: 22-00031
Status: Open
Permit Type: LOP
District: 3

PUBLIC WORKS CITY OF CALISTOGA (Continued) **S102810826**

HAZNET:

Year:	2010
Gepaid:	CAL000025583
Contact:	BILL MCBRIDE/MAINT SUPT
Telephone:	7079422828
Mailing Name:	Not reported
Mailing Address:	1232 WASHINGTON ST
Mailing City,St,Zip:	CALISTOGA, CA 945151440
Gen County:	Not reported
TSD EPA ID:	CAD980884183
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Facility County:	Napa

Year:	2010
Gepaid:	CAL000025583
Contact:	BILL MCBRIDE/MAINT SUPT
Telephone:	7079422828
Mailing Name:	Not reported
Mailing Address:	1232 WASHINGTON ST
Mailing City,St,Zip:	CALISTOGA, CA 945151440
Gen County:	Not reported
TSD EPA ID:	CAD980884183
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25
Facility County:	Napa

Year:	2008
Gepaid:	CAL000025583
Contact:	BILL MCBRIDE/MAINT SUPT
Telephone:	7079422828
Mailing Name:	Not reported
Mailing Address:	1232 WASHINGTON ST
Mailing City,St,Zip:	CALISTOGA, CA 945151440
Gen County:	Napa
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Facility County:	Napa

Year:	2005
Gepaid:	CAL000025583
Contact:	BILL MCBRIDE/MAINT SUPT
Telephone:	7079422828
Mailing Name:	Not reported
Mailing Address:	1232 WASHINGTON ST
Mailing City,St,Zip:	CALISTOGA, CA 945151440
Gen County:	Napa

PUBLIC WORKS CITY OF CALISTOGA (Continued) **S102810826**

TSD EPA ID:	CAL000161743
TSD County:	Santa Clara
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	0.77
Facility County:	Not reported

Year:	2003
Gepaid:	CAL000025583
Contact:	BILL MCBRIDE/MAINT SUPT
Telephone:	7079422828
Mailing Name:	Not reported
Mailing Address:	1232 WASHINGTON ST
Mailing City,St,Zip:	CALISTOGA, CA 945151440
Gen County:	Napa
TSD EPA ID:	CAT000613943
TSD County:	Napa
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Transfer Station
Tons:	0.1
Facility County:	Napa

Click this hyperlink while viewing on your computer to access
12 additional CA_HAZNET: record(s) in the EDR Site Report.

B8 **CITY OF CALISTOGA PWMY GWTS** **AST** **S105256201**
SSE **414 WASHINGTON ST** **WDS** **N/A**
< 1/8 **CALISTOGA, CA 94515**
0.039 mi.
208 ft. **Site 4 of 4 in cluster B**

Relative:
Lower

Actual:
332 ft.

AST:

Owner:	City of Calistoga
Total Gallons:	3,000
Certified Unified Program Agencies:	Napa

CA WDS:

Facility ID:	San Francisco Bay 283123002
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAG912002 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	8772857810
Facility Contact:	James Cullin (GeoMatrix)
Agency Name:	CALISTOGA CITY OF
Agency Address:	414 Washington Street
Agency City,St,Zip:	Calistoga 94515
Agency Contact:	Bill McBride
Agency Telephone:	7079422828
Agency Type:	City
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Contaminated Ground Water
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive,

CITY OF CALISTOGA PWMY GWTS (Continued) **S105256201**

ignitable or reactive substances and must be managed according to applicable DOHS standards.

Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

C9
SSW
< 1/8
0.052 mi.
277 ft.

CRYSTAL GEYSER **UST** **U003870736**
500 WASHINGTON STREET **N/A**
CALISTOGA, CA 94515

Site 1 of 2 in cluster C

Relative:
Lower

Actual:
335 ft.

NAPA CO. UST:
Facility ID: NAPA0707
Num of Tanks: 0

C10
SSW
< 1/8
0.053 mi.
280 ft.

CALISTOGA MINERAL WATER **HIST CORTESE** **S100224846**
504 WASHINGTON ST **LUST** **N/A**
CALISTOGA, CA 94515

Site 2 of 2 in cluster C

Relative:
Lower

Actual:
336 ft.

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0028

LUST:
Region: STATE
Global Id: T0605500027
Latitude: 38.577425
Longitude: -122.57334
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 10/06/1995
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: UNA
Local Agency: NAPA COUNTY LOP
RB Case Number: 28-0028
LOC Case Number: 28-0028
File Location: Not reported
Potential Media Affect: Soil

CALISTOGA MINERAL WATER (Continued) **S100224846**

Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0605500027
Contact Type: Regional Board Caseworker
Contact Name: RB 2
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 Clay St, Suite 1400
City: Oakland
Email: Not reported
Phone Number: Not reported

Global Id: T0605500027
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: NAPA COUNTY LOP
Address: 1195 THIRD ST., ROOM 101
City: NAPA
Email: Not reported
Phone Number: 7072534269

LUST:
Global Id: T0605500027
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500027
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500027
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 28-0028
Facility Status: Case Closed
Case Number: 28-0028
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/11/1989
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

11 WNW < 1/8 0.082 mi. 433 ft.	**VALLEY BUSINESS FORMS INC 1311 FAIR WAY CALISTOGA, CA 94515**	**RCRA-SQG FINDS HAZNET**	**1000857130 CA0000058149**

Relative:
Higher

Actual:
352 ft.

RCRA-SQG:

Date form received by agency:	11/10/1993
Facility name:	VALLEY BUSINESS FORMS INC
Facility address:	1311 FAIR WAY CALISTOGA, CA 94515
EPA ID:	CA0000058149
Mailing address:	PO BOX 324 CALISTOGA, CA 94515
Contact:	LVERE SERENI
Contact address:	1311 FAIR WAY CALISTOGA, CA 94515
Contact country:	US
Contact telephone:	(707) 942-4301
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	VALLEY BUSINESS FORMS INC
Owner/operator address:	1311 FAIR WAY CALISTOGA, CA 94515
Owner/operator country:	Not reported
Owner/operator telephone:	(707) 942-4301
Legal status:	Private
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:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

VALLEY BUSINESS FORMS INC (Continued) **1000857130**

FINDS:

Registry ID: 110002611914

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Year:	1997
Gepaid:	CA0000058149
Contact:	VALLEY BUSINESS FORMS INC
Telephone:	7079424301
Mailing Name:	Not reported
Mailing Address:	PO BOX 324
Mailing City,St,Zip:	CALISTOGA, CA 945150324
Gen County:	Napa
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Tons:	.3753
Facility County:	Napa

Year:	1996
Gepaid:	CA0000058149
Contact:	VALLEY BUSINESS FORMS INC
Telephone:	7079424301
Mailing Name:	Not reported
Mailing Address:	PO BOX 324
Mailing City,St,Zip:	CALISTOGA, CA 945150324
Gen County:	Napa
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Tons:	.5629
Facility County:	Napa

Year:	1996
Gepaid:	CA0000058149
Contact:	VALLEY BUSINESS FORMS INC
Telephone:	7079424301
Mailing Name:	Not reported
Mailing Address:	PO BOX 324
Mailing City,St,Zip:	CALISTOGA, CA 945150324
Gen County:	Napa
TSD EPA ID:	CAD070148432
TSD County:	1
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station

VALLEY BUSINESS FORMS INC (Continued) **1000857130**

Tons:	.1251
Facility County:	Napa

Year:	1995
Gepaid:	CA0000058149
Contact:	VALLEY BUSINESS FORMS INC
Telephone:	7079424301
Mailing Name:	Not reported
Mailing Address:	PO BOX 324
Mailing City,St,Zip:	CALISTOGA, CA 945150324
Gen County:	Napa
TSD EPA ID:	CAD070148432
TSD County:	1
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	.3627
Facility County:	Napa

12
West
< 1/8
0.109 mi.
577 ft.

CALISTOGA CITY FIRE DEPT
1113 WASHINGTON ST
CALISTOGA, CA 94515

HIST CORTESE **U001596418**
LUST **N/A**
UST
HIST UST
SWEEPS UST

Relative:
Higher

Actual:
346 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0304

LUST:

Region:	STATE
Global Id:	T0605500260
Latitude:	38.578253
Longitude:	-122.578505
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/02/2001
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0304
LOC Case Number:	0032
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500260
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us

CALISTOGA CITY FIRE DEPT (Continued) **U001596418**

Phone Number: Not reported

Global Id: T0605500260
Contact Type: Regional Board Caseworker
Contact Name: MARY ROSE CASSA
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: mcassa@waterboards.ca.gov
Phone Number: 5106222447

LUST:
Global Id: T0605500260
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500260
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500260
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

NAPA CO. LUST:
Permit ID: 4812
Job Number: 22-00032
Status: Closed
Permit Type: LOP
District: 3

LUST REG 2:
Region: 2
Facility Id: 28-0304
Facility Status: Case Closed
Case Number: 0032
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 2/2/1999
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

NAPA CO. UST:
Facility ID: NAPA0032
Num of Tanks: 0

CALISTOGA CITY FIRE DEPT (Continued) **U001596418**

HIST UST:

Region:	STATE
Facility ID:	00000037745
Facility Type:	Not reported
Other Type:	FIRE DEPT
Total Tanks:	0001
Contact Name:	MARK THOMAS
Telephone:	7079425188
Owner Name:	CITY OF CALISTOGA
Owner Address:	1232 WASHINGTON ST
Owner City,St,Zip:	CALISTOGA, CA 94515
Tank Num:	001
Container Num:	#3
Year Installed:	1977
Tank Capacity:	00000300
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

SWEEPS UST:

Status:	Active
Comp Number:	37745
Number:	4
Board Of Equalization:	44-015422
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	06-30-89
Tank Status:	A
Owner Tank Id:	#3
Swrcb Tank Id:	28-000-037745-000001
Actv Date:	07-01-85
Capacity:	300
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	1

D13 **CALISTOGA WW TREATMENT PLANT** **HIST CORTESE** **1001134513**
West **1232 WASHINGTON ST** **ENF** **N/A**
< 1/8 **CALISTOGA, CA 94515** **WDS**
0.118 mi.
624 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
347 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0029

ENF:

Region:	2
Facility Id:	212749
Agency Name:	Calistoga City
Place Type:	Facility

CALISTOGA WW TREATMENT PLANT (Continued) **1001134513**

Place Subtype:	Not reported
Facility Type:	Municipal/Domestic
Agency Type:	City Agency
# Of Agencies:	1
Place Latitude:	38.5786919
Place Longitude:	-122.57928
SIC Code 1:	4952
SIC Desc 1:	Sewerage Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.62
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Domestic wastewater
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	REC
# Of Programs:	1
WDID:	2 283003002
Reg Measure Id:	141529
Reg Measure Type:	Reclamation Requirements
Region:	2
Order #:	88-060
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	2 - Producer-User
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	09/05/2008
Effective Date:	04/20/1988
Expiration/Review Date:	06/23/2008
Termination Date:	05/03/2005
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	1998-06-23 00:00:00
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive

CALISTOGA WW TREATMENT PLANT (Continued) **1001134513**

Enforcement Id(EID):	227439
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice to Comply
Effective Date:	07/30/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 283003002
Description:	Not reported
Program:	REC
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

CA WDS:

Facility ID:	San Francisco Bay 283003001
Facility Type:	Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CA0037966 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	Not reported
Facility Contact:	STEVE ANDERSON
Agency Name:	CALISTOGA CITY OF
Agency Address:	1232 WASHINGTON ST
Agency City,St,Zip:	CALISTOGA 94515
Agency Contact:	STEVE ANDERSON
Agency Telephone:	7079422828
Agency Type:	City
SIC Code:	4952
SIC Code 2:	Not reported
Primary Waste:	Domestic Sewage
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	1
Baseline Flow:	1
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The POTW Does not have an approved pretreatment program. Some POTWs

CALISTOGA WW TREATMENT PLANT (Continued) **1001134513**

may have local pretreatment programs that have not been approved by the regional board and/or EPA.

Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.

Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

Facility ID: San Francisco Bay 283003002
Facility Type: Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: Not reported
Subregion: 2
Facility Telephone: Not reported
Facility Contact: R. SPITLER/PUB. WORK DIRECTOR
Agency Name: CALISTOGA CITY OF
Agency Address: 1232 WASHINGTON ST
Agency City,St,Zip: CALISTOGA 94515
Agency Contact: STEVE ANDERSON
Agency Telephone: 7079422828
Agency Type: City
SIC Code: 4952
SIC Code 2: Not reported
Primary Waste: Domestic Sewage
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 1
Baseline Flow: 1
Reclamation: Producer-User: Reclamation requirements that have been issued to a producer of reclaimed water who also uses the product.
POTW: The facility is not a POTW.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

D14 West < 1/8 0.120 mi. 634 ft. | **CALISTOGA CITY POLICE FACILITY**
1235 WASHINGTON ST
CALISTOGA, CA 94515 | **LUST UST** | **U003115032 N/A**

Site 2 of 2 in cluster D

Relative: Higher

Actual: 347 ft.

LUST:

Region:	STATE
Global Id:	T0605500028
Latitude:	38.5787891
Longitude:	-122.5796597
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/07/1995
Lead Agency:	NAPA COUNTY LOP
Case Worker:	ZZZ
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0029
LOC Case Number:	0413
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500028
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD ST., ROOM 101
City:	NAPA
Email:	Not reported
Phone Number:	7072534269

Global Id:	T0605500028
Contact Type:	Regional Board Caseworker
Contact Name:	MARY ROSE CASSA
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	mcassa@waterboards.ca.gov
Phone Number:	5106222447

LUST:

Global Id:	T0605500028
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500028
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0605500028
Action Type:	Other
Date:	01/01/1950

CALISTOGA CITY POLICE FACILITY (Continued) **U003115032**

Action: Leak Stopped

LUST REG 2:

Region:	2
Facility Id:	28-0029
Facility Status:	Case Closed
Case Number:	0413
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	12/26/1990
Preliminary Site Assesment Began:	7/30/1991
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

NAPA CO. UST:

Facility ID:	NAPA0413
Num of Tanks:	0

15
West
1/8-1/4
0.167 mi.
880 ft.

ABE NEWMAN ET AL **UST** **U003115034**
1400 WASHINGTON ST. **N/A**
CALISTOGA, CA 94515

Relative:
Higher

Actual:
344 ft.

NAPA CO. UST:

Facility ID:	NAPA0617
Num of Tanks:	0

E16
West
1/8-1/4
0.195 mi.
1028 ft.

CALISTOGA AUTO PARTS INC **RCRA-SQG** **1000263520**
1318 LINCOLN AVE **FINDS** **CAD982036626**
CALISTOGA, CA 94515

Site 1 of 3 in cluster E

Relative:
Higher

Actual:
343 ft.

RCRA-SQG:

Date form received by agency:	09/11/1987
Facility name:	CALISTOGA AUTO PARTS INC
Facility address:	1318 LINCOLN AVE CALISTOGA, CA 94515
EPA ID:	CAD982036626
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1318 LINCOLN AVE CALISTOGA, CA 94515
Contact country:	US
Contact telephone:	(707) 942-5185
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous

CALISTOGA AUTO PARTS INC (Continued) **1000263520**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CALISTOGA AUTO PARTS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
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:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002784283

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

CALISTOGA AUTO PARTS INC (Continued) **1000263520**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E17
West
1/8-1/4
0.195 mi.
1028 ft.

1318 LINCOLN AVE
CALISTOGA, CA 94515

EDR US Hist Auto Stat **1015206515**
N/A

Site 2 of 3 in cluster E

Relative:
Higher

Actual:
343 ft.

EDR Historical Auto Stations:

Name:	CALISTOGA AUTO PARTS AND MACHINE SHOP
Year:	1999
Address:	1318 LINCOLN AVE
Name:	CALISTOGA AUTO PARTS AND MACHINE SHOP
Year:	2000
Address:	1318 LINCOLN AVE

E18
West
1/8-1/4
0.202 mi.
1069 ft.

PACIFIC BELL
1310 LINCOLN AVENUE
CALISTOGA, CA 94515

RCRA-SQG **1000250941**
FINDS **CAT080017163**
EMI

Site 3 of 3 in cluster E

Relative:
Higher

Actual:
342 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	PACIFIC BELL
Facility address:	1310 LINCOLN AVENUE CALISTOGA, CA 94515
EPA ID:	CAT080017163
Mailing address:	3707 KINGS WAY SEC A-6 SACRAMENTO, CA 95821
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private

PACIFIC BELL (Continued) **1000250941**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/13/1981
Facility name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002947704

Environmental Interest/Information System
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

PACIFIC BELL (Continued) **1000250941**

corrective action activities required under RCRA.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

EMI:

Year:	2002
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.001
Reactive Organic Gases Tons/Yr:	0.0008367
Carbon Monoxide Emissions Tons/Yr:	0.004
NOX - Oxides of Nitrogen Tons/Yr:	0.019
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.001
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.000976

PACIFIC BELL (Continued) **1000250941**

Year:	2005
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.001
Reactive Organic Gases Tons/Yr:	.0008367
Carbon Monoxide Emissions Tons/Yr:	.004
NOX - Oxides of Nitrogen Tons/Yr:	.019
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.001
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000976

Year:	2006
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.001
Reactive Organic Gases Tons/Yr:	.0008367
Carbon Monoxide Emissions Tons/Yr:	.002
NOX - Oxides of Nitrogen Tons/Yr:	.011
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.001
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000976

Year:	2007
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.001
Reactive Organic Gases Tons/Yr:	.0008367
Carbon Monoxide Emissions Tons/Yr:	.002
NOX - Oxides of Nitrogen Tons/Yr:	.011
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.001
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000976

Year:	2007
County Code:	28
Air Basin:	SF
Facility ID:	13455
Air District Name:	BA
SIC Code:	4813

PACIFIC BELL (Continued) **1000250941**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.003
Reactive Organic Gases Tons/Yr:	.0025101
Carbon Monoxide Emissions Tons/Yr:	.008
NOX - Oxides of Nitrogen Tons/Yr:	.037
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.003
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.002928

19
West
1/8-1/4
0.218 mi.
1149 ft.

1341 BERRY ST
CALISTOGA, CA 94515

EDR US Hist Cleaners **1014989349**
N/A

Relative:
Higher

Actual:
345 ft.

EDR Historical Cleaners:

Name:	ROSES CLEANER
Year:	2004
Address:	1341 BERRY ST
Name:	ROSES CLEANERS
Year:	2006
Address:	1341 BERRY ST
Name:	ROSES CLEANERS
Year:	2007
Address:	1341 BERRY ST
Name:	ROSES CLEANERS
Year:	2008
Address:	1341 BERRY ST
Name:	ROSES CLEANERS
Year:	2010
Address:	1341 BERRY ST

20
NNW
1/4-1/2
0.264 mi.
1395 ft.

BIRLEFFI MOTORS INC
1856 LINCOLN AVE
CALISTOGA, CA 94515

HIST CORTESE **U003659764**
LUST **N/A**
UST
HAZNET

Relative:
Higher

Actual:
362 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0297

LUST:

Region:	STATE
Global Id:	T0605500253
Latitude:	38.584795
Longitude:	-122.576335
Case Type:	LUST Cleanup Site

BIRLEFFI MOTORS INC (Continued) **U003659764**

Status:	Completed - Case Closed
Status Date:	12/30/2011
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0297
LOC Case Number:	0677
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500253
Contact Type:	Regional Board Caseworker
Contact Name:	KENT AUE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	kaue@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605500253
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

LUST:

Global Id:	T0605500253
Action Type:	ENFORCEMENT
Date:	12/30/2011
Action:	Closure/No Further Action Letter

Global Id:	T0605500253
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation

Global Id:	T0605500253
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Soil Vapor Extraction (SVE)

Global Id:	T0605500253
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500253
Action Type:	ENFORCEMENT
Date:	10/27/2008

BIRLEFFI MOTORS INC (Continued) **U003659764**

Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 08/18/2011
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 10/21/2011
Action: Letter - Notice

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 09/14/2011
Action: Letter - Notice

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 06/22/2010
Action: Staff Letter

Global Id: T0605500253
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 01/31/2011
Action: Staff Letter

Global Id: T0605500253
Action Type: RESPONSE
Date: 01/13/2010
Action: Respond to Petition

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 06/13/2006
Action: File review

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 03/09/2011
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 03/31/2010
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 03/13/2009
Action: Staff Letter

BIRLEFFI MOTORS INC (Continued) **U003659764**

Global Id: T0605500253
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500253
Action Type: REMEDIATION
Date: 01/01/1950
Action: Pump & Treat (P&T) Groundwater

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 01/22/2009
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 10/05/2009
Action: Staff Letter

Global Id: T0605500253
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 03/18/2011
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 10/26/2010
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 04/06/2011
Action: Staff Letter

Global Id: T0605500253
Action Type: ENFORCEMENT
Date: 04/06/2011
Action: Petition Submitted for Review

NAPA CO. LUST:
Permit ID: 4555
Job Number: 22-00677
Status: Open
Permit Type: LOP
District: 3

LUST REG 2:
Region: 2
Facility Id: 28-0297

BIRLEFFI MOTORS INC (Continued) **U003659764**

Facility Status: Remediation Plan
Case Number: 0677
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 9/25/1997
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 5/16/2000
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 5/3/2001
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

NAPA CO. UST:
Facility ID: NAPA0677
Num of Tanks: 0

HAZNET:
Year: 2011
Gepaid: CAL000333192
Contact: BOB COFFIN
Telephone: 7079424566
Mailing Name: Not reported
Mailing Address: 235 E PERKINS ST
Mailing City,St,Zip: UKIAH, CA 954824401
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.22935
Facility County: Napa

Year: 2011
Gepaid: CAL000333192
Contact: BOB COFFIN
Telephone: 7079424566
Mailing Name: Not reported
Mailing Address: 235 E PERKINS ST
Mailing City,St,Zip: UKIAH, CA 954824401
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.34
Facility County: Napa

Year: 2010
Gepaid: CAL000333192
Contact: BOB COFFIN
Telephone: 7079424566
Mailing Name: Not reported

BIRLEFFI MOTORS INC (Continued) **U003659764**

Mailing Address: 235 E PERKINS ST
Mailing City,St,Zip: UKIAH, CA 954824401
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.153
Facility County: Napa

Year: 2010
Gepaid: CAL000333192
Contact: BOB COFFIN
Telephone: 7079424566
Mailing Name: Not reported
Mailing Address: 235 E PERKINS ST
Mailing City,St,Zip: UKIAH, CA 954824401
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.22935
Facility County: Napa

Year: 2010
Gepaid: CAL000333192
Contact: BOB COFFIN
Telephone: 7079424566
Mailing Name: Not reported
Mailing Address: 235 E PERKINS ST
Mailing City,St,Zip: UKIAH, CA 954824401
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.119
Facility County: Napa

Click this hyperlink while viewing on your computer to access
15 additional CA_HAZNET: record(s) in the EDR Site Report.

21
NW
1/4-1/2
0.288 mi.
1519 ft.

Relative:
Higher

Actual:
362 ft.

CALISTOGA HIGH SCHOOL
1608 LAKE ST
CALISTOGA, CA 94515

NPDES **U001596419**
HIST CORTESE **N/A**
LUST
UST
HIST UST
SWEEPS UST
HAZNET

NPDES:
Npdes Number: CAS000002
Facility Status: Active
Agency Id: 0

CALISTOGA HIGH SCHOOL (Continued) **U001596419**

Region:	2
Regulatory Measure Id:	433007
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 28C365265
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/18/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Calistoga Joint Unified School District
Discharge Address:	1520 Lake Street
Discharge City:	Calistoga
Discharge State:	California
Discharge Zip:	94515

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0027

LUST:

Region:	STATE
Global Id:	T0605500026
Latitude:	38.583354
Longitude:	-122.579884
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/24/1997
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0027
LOC Case Number:	0033
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500026
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

Global Id:	T0605500026
Contact Type:	Regional Board Caseworker
Contact Name:	MARY ROSE CASSA
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

CALISTOGA HIGH SCHOOL (Continued) **U001596419**

Address: 1515 CLAY STREET
City: OAKLAND
Email: mcassa@waterboards.ca.gov
Phone Number: 5106222447

LUST:
Global Id: T0605500026
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500026
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500026
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

NAPA CO. LUST:
Permit ID: 4811
Job Number: 22-00033
Status: Closed
Permit Type: LOP
District: 3

LUST REG 2:
Region: 2
Facility Id: 28-0027
Facility Status: Case Closed
Case Number: 0033
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/20/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

NAPA CO. UST:
Facility ID: NAPA0033
Num of Tanks: 0

HIST UST:
Region: STATE
Facility ID: 00000040841
Facility Type: Other
Other Type: SCHOOL

CALISTOGA HIGH SCHOOL (Continued) **U001596419**

Total Tanks:	0001
Contact Name:	ARTHUR C. SANDERLIN
Telephone:	7079426278
Owner Name:	CALISTOGA JONT UNIFIED SCHOOL
Owner Address:	1327 BERRY STREET
Owner City,St,Zip:	CALISTOGA, CA 94515

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

SWEEPS UST:

Status:	Active
Comp Number:	40841
Number:	4
Board Of Equalization:	44-015430
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	06-30-89
Tank Status:	A
Owner Tank Id:	1
Swrcb Tank Id:	28-000-040841-000001
Actv Date:	07-01-85
Capacity:	Not reported
Tank Use:	M.V. FUEL
Stg:	P
Content:	LEADED
Number Of Tanks:	1

HAZNET:

Year:	1997
Gepaid:	CAC001245088
Contact:	CITY OF CALISTOGA
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1608 LAKE ST
Mailing City,St,Zip:	CALISTOGA, CA 945150000
Gen County:	Napa
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Waste Category:	Laboratory waste chemicals
Disposal Method:	Disposal, Other
Tons:	.0748
Facility County:	Napa

Year:	1997
Gepaid:	CAC001245088
Contact:	CITY OF CALISTOGA
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1608 LAKE ST

CALISTOGA HIGH SCHOOL (Continued) **U001596419**

Mailing City,St,Zip:	CALISTOGA, CA 945150000
Gen County:	Napa
TSD EPA ID:	CAD982042475
TSD County:	Solano
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	.0025
Facility County:	Napa

Year:	1997
Gepaid:	CAC001245088
Contact:	CITY OF CALISTOGA
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1608 LAKE ST
Mailing City,St,Zip:	CALISTOGA, CA 945150000
Gen County:	Napa
TSD EPA ID:	CAD982042475
TSD County:	Solano
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	.0025
Facility County:	Napa

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22 **BENNY'S EXXON GAS SERVICE STN** **HIST CORTESE** **S104161984**
SW **1020 FOOTHILL** **LUST** **N/A**
1/4-1/2 **CALISTOGA, CA 94515** **ENF**
0.349 mi. **HAZNET**
1843 ft.

Relative:
Higher

Actual:
360 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0219

LUST:

Region:	STATE
Global Id:	T0605500196
Latitude:	38.5752040695907
Longitude:	-122.579897046089
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/10/2012
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0219
LOC Case Number:	0352
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500196

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Contact Type: Local Agency Caseworker
Contact Name: James Newman, P.G., C.E.G.
Organization Name: NAPA COUNTY LOP
Address: 1195 THIRD STREET, SUITE 101
City: NAPA
Email: jnewman@co.napa.ca.us
Phone Number: Not reported

Global Id: T0605500196
Contact Type: Regional Board Caseworker
Contact Name: KENT AUE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: kaue@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0605500196
Action Type: RESPONSE
Date: 04/09/2012
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605500196
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0605500196
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 10/20/2003
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 07/28/2005
Action: * Referral to Regional Board or Another State Agency

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 11/24/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 05/31/2011
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 02/24/2012
Action: LOP Case Closure Summary to RB

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 04/10/2012
Action: Closure/No Further Action Letter

Global Id: T0605500196
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500196
Action Type: REMEDIATION
Date: 01/01/1950
Action: Not reported

Global Id: T0605500196
Action Type: RESPONSE
Date: 11/18/2005
Action: Soil and Water Investigation Report

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 02/26/1998
Action: Notice to Comply

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 03/18/1999
Action: Notification - Fee Title Owners Notice

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 01/05/2000
Action: Notice of Violation

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 09/14/1999
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 10/20/2003
Action: * Referral to Regional Board or Another State Agency

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 04/11/2000
Action: Technical Correspondence / Assistance / Other

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 06/28/2002
Action: 13267 Monitoring Program

Global Id: T0605500196
Action Type: ENFORCEMENT

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Date: 11/05/2008
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 07/21/2009
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 04/28/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 12/03/2003
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 04/28/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 09/12/2005
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 02/09/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 02/09/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 12/23/2008
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 11/24/2010
Action: Staff Letter

Global Id: T0605500196
Action Type: ENFORCEMENT
Date: 07/20/2006
Action: Referral to Local Agency

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Global Id:	T0605500196
Action Type:	ENFORCEMENT
Date:	07/26/2006
Action:	Notice to Comply

NAPA CO. LUST:

Permit ID:	4628
Job Number:	22-00352
Status:	Open
Permit Type:	LOP
District:	3

LUST REG 2:

Region:	2
Facility Id:	28-0219
Facility Status:	Preliminary site assessment underway
Case Number:	0352
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	11/15/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

ENF:

Region:	2
Facility Id:	211365
Agency Name:	Exxon Company USA
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	38.5747509
Place Longitude:	-122.57908
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	TANKS
# Of Programs:	1
WDID:	2 28-0219
Reg Measure Id:	168878
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	236748
Region:	2
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	08/09/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 28-0219
Description:	13267 Letter - A Request for Submittal of a Work Plan and Time Schedule for Soil and GW Investigation
Program:	TANKS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0

BENNY'S EXXON GAS SERVICE STN (Continued) **S104161984**

Liability $ Paid: 0
Project $ Completed: 0
Total $ Paid/Completed Amount: 0

HAZNET:
Year: 2003
Gepaid: CAL000004820
Contact: UNDELIVERABLE SURVEY 2-20-95JV
Telephone: 0
Mailing Name: Not reported
Mailing Address: 1020 FOOTHILL BLVD
Mailing City,St,Zip: CALISTOGA, CA 945150000
Gen County: Napa
TSD EPA ID: CAD008302903
TSD County: Napa
Waste Category: Other organic solids
Disposal Method: Transfer Station
Tons: 0.03
Facility County: Napa

F23 **SHELL OIL CO** **RCRA-SQG** **1000288641**
WSW **1108 LINCOLN AVE/FOOTHILL** **HIST CORTESE** **CAD981402159**
1/4-1/2 **CALISTOGA, CA 94515** **LUST**
0.352 mi. **HAZNET**
1860 ft. **Site 1 of 5 in cluster F**

Relative:
Higher

Actual:
363 ft.

RCRA-SQG:
Date form received by agency: 04/08/1998
Facility name: SHELL OIL CO
Facility address: 1108 LINCOLN AVE/FOOTHILL
CALISTOGA, CA 94515
EPA ID: CAD981402159
Mailing address: P O BOX 4453
HOUSTON, TX 772104453
Contact: SONDRA BIENVENU
Contact address: P O BOX 4453
HOUSTON, TX 772104453
Contact country: US
Contact telephone: (713) 241-2258
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: EQUILON ENTERPRISES LLC
Owner/operator address: P O BOX 4453
HOUSTON, TX 77210
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported

SHELL OIL CO (Continued) **1000288641**

Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: SHELL OIL CO
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0151

SHELL OIL CO (Continued) **1000288641**

LUST:

Region:	STATE
Global Id:	T0605500136
Latitude:	38.5753718234146
Longitude:	-122.580336928368
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/03/2011
Lead Agency:	NAPA COUNTY LOP
Case Worker:	JTN
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0151
LOC Case Number:	0023
File Location:	Local Agency
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500136
Contact Type:	Local Agency Caseworker
Contact Name:	James Newman, P.G., C.E.G.
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD STREET, SUITE 101
City:	NAPA
Email:	jnewman@co.napa.ca.us
Phone Number:	Not reported

Global Id:	T0605500136
Contact Type:	Regional Board Caseworker
Contact Name:	KENT AUE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	kaue@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605500136
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Free Product Removal

Global Id:	T0605500136
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500136
Action Type:	ENFORCEMENT
Date:	08/03/2011
Action:	Closure/No Further Action Letter

Global Id:	T0605500136
Action Type:	ENFORCEMENT

SHELL OIL CO (Continued) **1000288641**

Date: 09/30/2008
Action: Staff Letter

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 10/26/2010
Action: Staff Letter

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 10/18/2010
Action: Staff Letter

Global Id: T0605500136
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500136
Action Type: REMEDIATION
Date: 01/01/1950
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 09/11/2009
Action: Staff Letter

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 12/09/2003
Action: * No Action

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 04/06/1999
Action: Notification - Fee Title Owners Notice

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 07/24/1989
Action: Notice of Reimbursement

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 03/31/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605500136
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 03/10/2009
Action: Staff Letter

SHELL OIL CO (Continued) **1000288641**

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 05/12/2010
Action: Staff Letter

Global Id: T0605500136
Action Type: ENFORCEMENT
Date: 06/10/2009
Action: Technical Correspondence / Assistance / Other

NAPA CO. LUST:
Permit ID: 10000
Job Number: Not reported
Status: Open
Permit Type: LOP
District: 3

LUST REG 2:
Region: 2
Facility Id: 28-0151
Facility Status: Remediation Plan
Case Number: 0023
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: P,
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 2/5/1990
Pollution Characterization Began: 5/11/1990
Pollution Remediation Plan Submitted: 9/27/1991
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HAZNET:
Year: 2011
Gepaid: CAL000354377
Contact: ASHRAF ALI
Telephone: 7077472955
Mailing Name: Not reported
Mailing Address: 5000 E 2ND ST STE G
Mailing City,St,Zip: BENICIA, CA 945100000
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.065
Facility County: Napa

Year: 2011
Gepaid: CAL000354377
Contact: ASHRAF ALI
Telephone: 7077472955
Mailing Name: Not reported

SHELL OIL CO (Continued) **1000288641**

Mailing Address: 5000 E 2ND ST STE G
Mailing City,St,Zip: BENICIA, CA 945100000
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.05
Facility County: Napa

F24 **CHEVRON** **LUST** **S105030237**
WSW **1107 FOOTHILL BLVD** **N/A**
1/4-1/2 **CALISTOGA, CA 94515**
0.356 mi.
1882 ft. **Site 2 of 5 in cluster F**

Relative:
Higher

Actual:
362 ft.

LUST REG 2:
Region: 2
Facility Id: 28-0038
Facility Status: Remediation Plan
Case Number: 0269
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 5/24/1984
Pollution Characterization Began: 4/27/1989
Pollution Remediation Plan Submitted: 12/18/1995
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

F25 **CHEVRON** **HIST CORTESE** **S110060427**
WSW **1107 FOOTHILL BLVD** **LUST** **N/A**
1/4-1/2 **CALISTOGA, CA 94515**
0.356 mi.
1882 ft. **Site 3 of 5 in cluster F**

Relative:
Higher

Actual:
362 ft.

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0038

LUST:
Region: STATE
Global Id: T0605500037
Latitude: 38.574921
Longitude: -122.579014
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/22/2007
Lead Agency: NAPA COUNTY LOP
Case Worker: JTN
Local Agency: NAPA COUNTY LOP

CHEVRON (Continued) **S110060427**

RB Case Number: 28-0038
LOC Case Number: 0269
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0605500037
Contact Type: Local Agency Caseworker
Contact Name: James Newman, P.G., C.E.G.
Organization Name: NAPA COUNTY LOP
Address: 1195 THIRD STREET, SUITE 101
City: NAPA
Email: jnewman@co.napa.ca.us
Phone Number: Not reported

Global Id: T0605500037
Contact Type: Regional Board Caseworker
Contact Name: KENT AUE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: kaue@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0605500037
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500037
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500037
Action Type: ENFORCEMENT
Date: 01/14/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0605500037
Action Type: ENFORCEMENT
Date: 03/04/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0605500037
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500037
Action Type: ENFORCEMENT
Date: 08/22/2007

CHEVRON (Continued) **S110060427**

Action: Closure/No Further Action Letter

NAPA CO. LUST:
Permit ID: 4664
Job Number: 22-00269
Status: Closed
Permit Type: LOP
District: 3

F26 WSW 1/4-1/2 0.357 mi. 1883 ft. **TOSCO - FACILITY #0534** **HIST CORTESE** **S102808033**
1202 FOOTHILL BLVD **LUST** **N/A**
CALISTOGA, CA 94515 **HAZNET**

Site 4 of 5 in cluster F

Relative: Higher

Actual: 365 ft.

CORTESE:
Region: CORTESE
Facility County Code: 28
Reg By: LTNKA
Reg Id: 28-0294

LUST:
Region: STATE
Global Id: T0605500250
Latitude: 38.5754556
Longitude: -122.580686
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 02/17/2011
Lead Agency: NAPA COUNTY LOP
Case Worker: JTN
Local Agency: NAPA COUNTY LOP
RB Case Number: 28-0294
LOC Case Number: 0231
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply, Well used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0605500250
Contact Type: Local Agency Caseworker
Contact Name: James Newman, P.G., C.E.G.
Organization Name: NAPA COUNTY LOP
Address: 1195 THIRD STREET, SUITE 101
City: NAPA
Email: jnewman@co.napa.ca.us
Phone Number: Not reported

Global Id: T0605500250
Contact Type: Regional Board Caseworker
Contact Name: KENT AUE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)

TOSCO - FACILITY #0534 (Continued) **S102808033**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: kaue@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 12/29/2011
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 06/11/2012
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 11/19/2012
Action: Staff Letter

Global Id: T0605500250
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 09/16/2008
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 12/23/2008
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 09/27/2010
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 02/08/2011
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 04/20/2012
Action: Staff Letter

Global Id: T0605500250
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500250

TOSCO - FACILITY #0534 (Continued) **S102808033**

Action Type: ENFORCEMENT
Date: 10/03/2008
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 07/06/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 12/24/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 01/24/2005
Action: Meeting

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 11/05/2010
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 04/29/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 09/10/2012
Action: Staff Letter

Global Id: T0605500250
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0605500250
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0605500250
Action Type: REMEDIATION
Date: 01/01/1950
Action: Not reported

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 02/04/1999
Action: Notice of Responsibility

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 01/14/2005

TOSCO - FACILITY #0534 (Continued) **S102808033**

Action: File review

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 03/18/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 04/21/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 11/20/2012
Action: Staff Letter

Global Id: T0605500250
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 10/07/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 10/06/2009
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 02/03/2011
Action: Staff Letter

Global Id: T0605500250
Action Type: ENFORCEMENT
Date: 08/08/2011
Action: Staff Letter

NAPA CO. LUST:
Permit ID: 10011
Job Number: Not reported
Status: Open
Permit Type: LOP
District: 3

HAZNET:
Year: 2003
Gepaid: CAL000175922
Contact: HAZMAT SPECIALIST
Telephone: 6027284180
Mailing Name: Not reported

TOSCO - FACILITY #0534 (Continued) **S102808033**

Mailing Address: PO BOX 52085
Mailing City,St,Zip: PHOENIX, AZ 850722085
Gen County: Napa
TSD EPA ID: CAD028409019
TSD County: Napa
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Treatment, Tank
Tons: 0.45
Facility County: Napa

Year: 1995
Gepaid: CAD982042392
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Napa
TSD EPA ID: CAD009452657
TSD County: San Mateo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Recycler
Tons: .1668
Facility County: Napa

Year: 1995
Gepaid: CAD982042392
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Napa
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Tons: .0750
Facility County: Napa

Year: 1994
Gepaid: CAD982042392
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: 7144286560
Mailing Name: Not reported
Mailing Address: PO BOX 25376
Mailing City,St,Zip: SANTA ANA, CA 927995376
Gen County: Napa
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: .4587
Facility County: Napa

F27 **CONOCO PHILLIPS #250534** **LUST** **S105194295**
WSW **1202 FOOTHILL BLVD** **HAZNET** **N/A**
1/4-1/2 **CALISTOGA, CA 94515**
0.357 mi.
1883 ft. **Site 5 of 5 in cluster F**

Relative:
Higher

Actual:
365 ft.

LUST REG 2:

Region:	2
Facility Id:	28-0294
Facility Status:	Leak being confirmed
Case Number:	0231
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	Piping
Date Leak Confirmed:	12/14/1998
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

HAZNET:

Year:	2009
Gepaid:	CAL000280997
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Napa
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.0625
Facility County:	Napa

Year:	2009
Gepaid:	CAL000280997
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Napa
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.231
Facility County:	Napa

28 SSW 1/4-1/2 0.467 mi. 2464 ft. | **VITKOVSKY PROPERTY 411 FOOTHILL BLVD CALISTOGA, CA 94515** | **HIST CORTESE LUST UST** | **U003114677 N/A**

Relative: Higher

Actual: 644 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	28
Reg By:	LTNKA
Reg Id:	28-0187

LUST:

Region:	STATE
Global Id:	T0605500169
Latitude:	38.573049
Longitude:	-122.573583
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/11/1998
Lead Agency:	NAPA COUNTY LOP
Case Worker:	ZZZ
Local Agency:	NAPA COUNTY LOP
RB Case Number:	28-0187
LOC Case Number:	0414
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0605500169
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	NAPA COUNTY LOP
Address:	1195 THIRD ST., ROOM 101
City:	NAPA
Email:	Not reported
Phone Number:	7072534269

Global Id:	T0605500169
Contact Type:	Regional Board Caseworker
Contact Name:	MARY ROSE CASSA
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	mcassa@waterboards.ca.gov
Phone Number:	5106222447

LUST:

Global Id:	T0605500169
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0605500169
Action Type:	Other

VITKOVSKY PROPERTY (Continued) **U003114677**

Date: 01/01/1950
Action: Leak Discovery

Global Id: T0605500169
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

NAPA CO. LUST:
Permit ID: 4592
Job Number: 22-00414
Status: Closed
Permit Type: LOP
District: 3

LUST REG 2:
Region: 2
Facility Id: 28-0187
Facility Status: Case Closed
Case Number: 0414
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

NAPA CO. UST:
Facility ID: NAPA0414
Num of Tanks: 0

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29 **GALLIS TRUST PROPERTY** **SCH** **S105628679**
NNW **1834 MONEY LANE** **ENVIROSTOR** **N/A**
1/2-1 **CALISTOGA, CA 94515**
0.619 mi.
3267 ft.

Relative:
Higher

Actual:
383 ft.

SCH:

Facility ID: 28010002
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 16.44
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Javier Hinojosa

GALLIS TRUST PROPERTY (Continued) **S105628679**

Division Branch:	Northern California Schools & Santa Susana
Site Code:	204108
Assembly:	04
Senate:	03
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/08/2003
Restricted Use:	NO
Funding:	School District
Latitude:	38.58838
Longitude:	-122.5786
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	30001, 30004, 30006, 30007, 30008, 30013
Confirmed COC:	30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30013-NO
Potential Description:	SOIL
Alias Name:	CALISTOGA JOINT USD
Alias Type:	Alternate Name
Alias Name:	CALISTOGA JOINT USD-GALLIS TRUST PRPRTY
Alias Type:	Alternate Name
Alias Name:	GALLIS TRUST PROPERTY
Alias Type:	Alternate Name
Alias Name:	204108
Alias Type:	Project Code (Site Code)
Alias Name:	28010002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	03/08/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/18/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	12/09/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	10/30/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	04/08/2003
Comments:	Not reported

GALLIS TRUST PROPERTY (Continued) **S105628679**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 12/01/2002
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

ENVIROSTOR:
Site Type: School Investigation
Site Type Detailed: School
Acres: 16.44
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Northern California Schools & Santa Susana
Facility ID: 28010002
Site Code: 204108
Assembly: 04
Senate: 03
Special Program: Not reported
Status: No Further Action
Status Date: 04/08/2003
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: School District
Latitude: 38.58838
Longitude: -122.5786
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: 30001, 30004, 30006, 30007, 30008, 30013
Confirmed COC: 30001-NO,30004-NO,30006-NO,30007-NO,30008-NO,30013-NO
Potential Description: SOIL
Alias Name: CALISTOGA JOINT USD
Alias Type: Alternate Name
Alias Name: CALISTOGA JOINT USD-GALLIS TRUST PRPRTY
Alias Type: Alternate Name
Alias Name: GALLIS TRUST PROPERTY
Alias Type: Alternate Name
Alias Name: 204108
Alias Type: Project Code (Site Code)
Alias Name: 28010002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GALLIS TRUST PROPERTY (Continued) **S105628679**

Completed Document Type: * Public Participation
Completed Date: 03/08/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/18/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/30/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/08/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 12/01/2002
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

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CALISTOGA	S106198502	JACKSON RESIDENCE	3293 HWY 128	94515	LUST
CALISTOGA	S106928460	LAFRANCHI BROS	13520 HWY 128	94515	SWEEPS UST
CALISTOGA	S106234798	4365 HIGHWAY 29	4365 HWY 29		Cortese, SLIC, ENF
CALISTOGA	S105022992	WRIGHT PROPERTY	3703 HWY 29	94515	HIST CORTESE, LUST
CALISTOGA	S105022993	SUZIE'S ON THE MOUNTAIN	4410 HWY 29	94515	HIST CORTESE, LUST
CALISTOGA	S106932586	STERLING VINEYARDS/VINEYARD SH	3690 HIGHWAY 29 NORTH	94515	SWEEPS UST
CALISTOGA	S107736002	CALISTOGA RAD BEA ANNEX	N OF EARL ST	94515	ENVIROSTOR
CALISTOGA	U004050441	FACILITY 49-000-006158	18907 STATE HIGHWAY 128	94515	UST
CALISTOGA	S106924240	CHAS. HAFEY	17801 STATE HIGHWAY 128	94515	SWEEPS UST
CALISTOGA	U003996073	LOGVY PROPERTY	WASHINGTON AT OAK ST	94515	UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
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: 02/01/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: N/A
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Quarterly

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: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 01/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 01/04/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 03/11/2013
	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: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
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: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
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: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
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: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

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: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/20/2013
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: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 30

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 01/31/2013
Date Made Active in Reports: 03/19/2013
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases
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: 01/30/2013
Date Data Arrived at EDR: 01/31/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 38

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-5092
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
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: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

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: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

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: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
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: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

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: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

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: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 02/14/2013
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

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: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 45

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

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: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/20/2013
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

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: 06/30/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
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

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

Local Land Records

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: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

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: 03/11/2013
Date Data Arrived at EDR: 03/12/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
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: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

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: 12/06/2012
Date Data Arrived at EDR: 01/29/2013
Date Made Active in Reports: 03/19/2013
Number of Days to Update: 49

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 01/31/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 48

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 01/31/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 48

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA NonGen / NLR: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
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: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

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: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

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: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

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: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
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: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

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

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
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: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 35

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
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

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: No Update Planned

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: 12/11/2012
Date Data Arrived at EDR: 12/12/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
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: 01/08/2013
Date Data Arrived at EDR: 01/29/2013
Date Made Active in Reports: 03/19/2013
Number of Days to Update: 49

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 05/13/2013
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.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 14

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
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: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 03/06/2013
Date Data Arrived at EDR: 03/12/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 13

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

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: 01/15/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/25/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

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: 02/19/2013
Date Data Arrived at EDR: 02/20/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 28

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

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: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

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: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

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 US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

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: 01/16/2013
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 36

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/16/2013
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 01/31/2013
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 12/20/2012
Date Data Arrived at EDR: 01/04/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 49

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/17/2012
Date Made Active in Reports: 11/13/2012
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 01/04/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 49

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/20/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/04/2013
Date Data Arrived at EDR: 01/14/2013
Date Made Active in Reports: 03/01/2013
Number of Days to Update: 46

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 48

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/09/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 46

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2013
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 25

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

FRESNO COUNTY:

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: 02/07/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 03/01/2013
Number of Days to Update: 21

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 32

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 05/01/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 06/11/2012
Number of Days to Update: 40

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/26/2012
Date Data Arrived at EDR: 06/27/2012
Date Made Active in Reports: 08/17/2012
Number of Days to Update: 51

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 02/12/2013
Date Data Arrived at EDR: 02/13/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 36

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 33

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 12/28/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 28

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/16/2012
Next Scheduled EDR Contact: 10/26/2012
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/21/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/19/2013
Number of Days to Update: 56

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 32

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/25/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 36

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 01/31/2013
Number of Days to Update: 16

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 50

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 11/26/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/25/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 27

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/08/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 17

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 50

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/08/2013
Date Data Arrived at EDR: 03/08/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 17

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 03/08/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 22

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/13/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/15/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 12/12/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 34

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 02/05/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 43

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/29/2012
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

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: 11/02/2012
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

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: 03/04/2013
Date Data Arrived at EDR: 03/05/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 20

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/08/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

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: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/30/2013
Number of Days to Update: 40

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/26/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/05/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/06/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 19

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 02/26/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 22

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 50

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 36

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 39

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 01/10/2013
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 42

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 23

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 42

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/30/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 42

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/21/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

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: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

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: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/20/2013
Number of Days to Update: 47

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/28/2012
Date Made Active in Reports: 01/30/2013
Number of Days to Update: 33

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 03/05/2013
Date Data Arrived at EDR: 03/06/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 19

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX C

HISTORICAL SOURCES

AERIAL PHOTOGRAPH

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Approximate Property Boundary

Year: 1957

Project Number: 317822

AEI Consultants

AERIAL PHOTOGRAPH

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

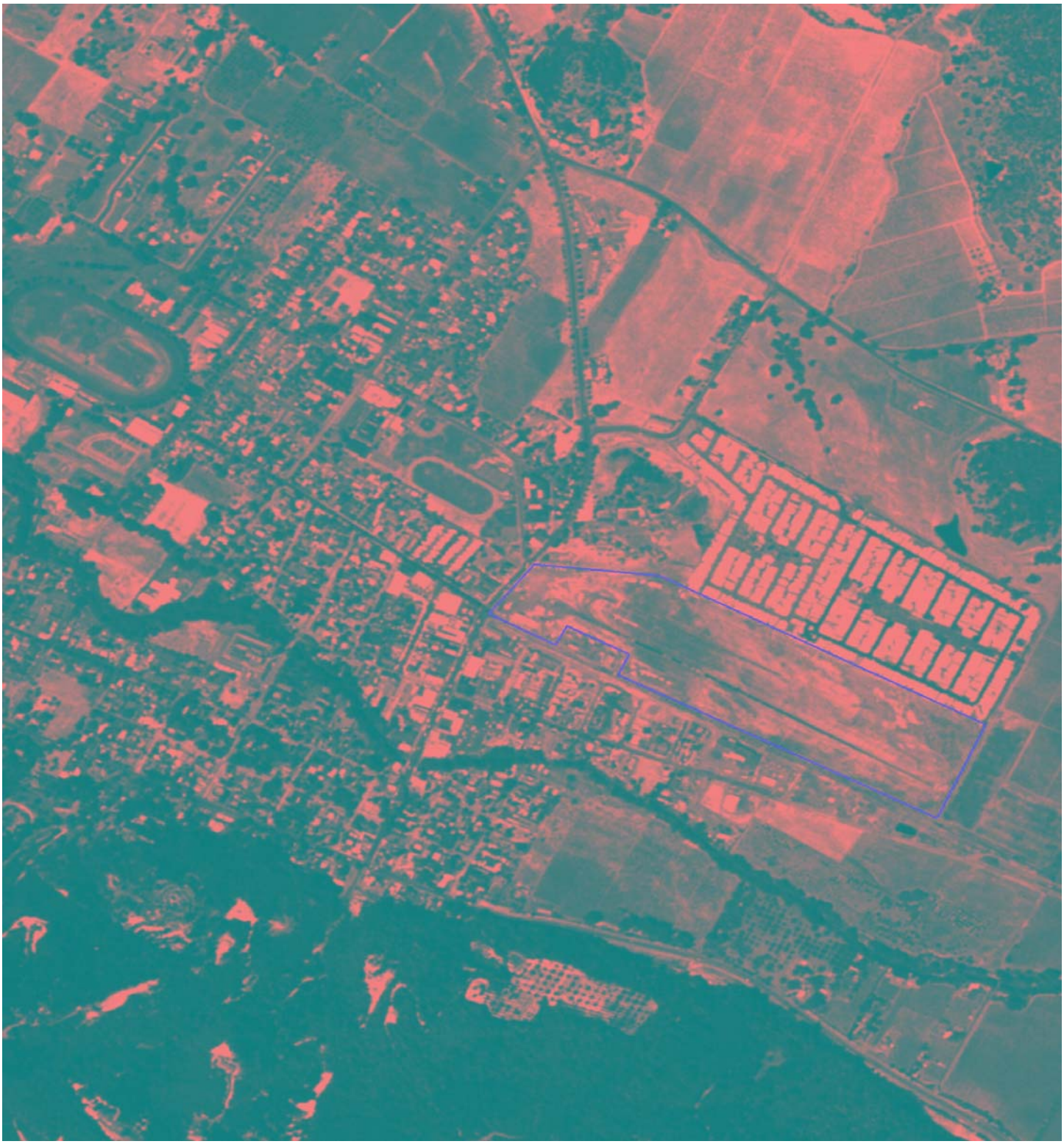
N

Approximate Property Boundary

Year: 1965

Project Number: 317822

AEI Consultants



AERIAL PHOTOGRAPH

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Approximate Property Boundary

Year: 1982

Project Number: 317822

AEI Consultants

AERIAL PHOTOGRAPH

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Approximate Property Boundary

Year: 1993

Project Number: 317822

AEI Consultants

AERIAL PHOTOGRAPH

1502, 1506, 1510, 1522, & 1546 Lincoln Avenue, Calistoga, California 94515

N

Approximate Property Boundary

Year: 2012

Project Number: 317822

AEI Consultants

APPENDIX D

REGULATORY AGENCY RECORDS

County of Napa GIS

Legend

- Parcels
- County Boundary

1,825.4 0 912.68 1,825.4 Feet

Disclaimer: This map was prepared for informational purposes only.
No liability is assumed for the accuracy of the data delineated hereon.

This map was printed on 4/5/2013

Notes

R

LOP 345

GREAT PACIFIC ASSOCIATES
P.O. BOX 4114
GEORGETOWN, CALIFORNIA 95634
TELEPHONE/FAX (916) 621-2927

RECEIVED
APR 24 1991
HAZARDOUS MATERIALS SECTION
DEPT. OF ENVIRONMENTAL MANAGEMENT

April 3, 1991

Mr. John Merchant
2444 Clay Street
San Francisco, CA 94701

Report #39

Dear Mr. Merchant,

GROUNDWATER SAMPLING REPORT, CALISTOGA GLIDERPORT AND PALISADES PRODUCE MARKET, CALISTOGA, CALIFORNIA

Enclosed is the groundwater sampling report for the Calistoga Gliderport and Palisades Produce Market, 1546 and 1712 Lincoln Avenue, respectively, Calistoga, California. Both the Calistoga Gliderport and the Palisades Produce Market are under orders by the Napa County Health Department (Napa County UST Case Numbers 0345 and 0393, respectively) to investigate the possible occurrence of petroleum-based chemicals beneath the site. This report presents laboratory analytical and groundwater surface elevation measurement results for the second monitoring event at the site.

Please call if you have any questions.

Sincerely,

Bud Gaudreau, REA

cc: Mr. William Rowser, Napa County.

INTRODUCTION

Following is the groundwater sampling report for the Calistoga Gliderport and Palisades Produce Market, 1546 and 1712 Lincoln Avenue, respectively, Calistoga, California. Figure 1 shows the location of the site. Both the Calistoga Gliderport and the Palisades Produce Market are under orders by the Napa County Health Department (Napa County UST Case Numbers 0345 and 0393, respectively) to investigate the possible occurrence of petroleum-based chemicals beneath the site. This report presents laboratory analytical and groundwater surface elevation measurement results for the second monitoring event at the site.

BACKGROUND

Several underground fuel storage tanks were removed from the two sites during January 1990. A complete description of the tank removal work and subsequent soil sampling results are reported in two Reay Environmental Services preliminary sampling reports dated March 12 and 20, 1990. As a result of physical observations and sample analytical results that indicated an accidental release from the tanks, a groundwater investigation was conducted during December 1990. The results of the initial groundwater investigation was presented in RES "Results of Initial Groundwater Investigation at Calistoga Gliderport and Palisades Produce Market" dated February 19, 1991. During the initial investigation, four groundwater monitor wells were installed on the two sites and sampled shortly after construction. Figure 2 shows the site plan and location of the monitor wells. The results of the initial sampling event indicated low concentrations of petroleum-based chemicals existed at two (MW-2 and MW-3) of the four wells. Recommendations were made in the above mentioned report to sample all the wells on a periodic basis for a one year period to establish a chemical data base.

SCOPE OF WORK

The four groundwater monitor wells were sampled on March 14, 1991. Groundwater level measurements were also taken on that date prior to collecting the samples. Each well was purged of three casing volumes of fluid, calculated from static water level, prior to collecting the sample. The samples were taken with a Teflon bailer and placed in laboratory cleaned 40 ml vials. The sample vials were labeled and immediately placed in a cooler with water-ice. All samples were logged on a chain-of-custody and delivered to the analytical laboratory via laboratory courier. A trip blank, consisting of laboratory prepared water, was included with the samples.

All the samples were analyzed for concentrations of total petroleum hydrocarbons (TPH) as gasoline and aviation gas, and benzene, toluene, xylene, and ethylbenzene (BTXE) by NET Pacific, Santa Rosa, California. NET Pacific is a California State Department of Health Services certified laboratory for the above analysis.

GROUNDWATER SAMPLE ANALYTICAL RESULTS

A summary of the groundwater sample analytical results are presented in Table 1. The results from monitor well MW-1 showed 1.2 parts per million (ppm) TPH as aviation gas and 140, 0.93, 49, and 39 parts per billion (ppb) benzene, toluene, xylene, and ethylbenzene, respectively. Well MW-2 showed 0.61 ppm TPH as avgas, and 4.4 and 0.73 ppb toluene and xylene, respectively. No benzene or ethylbenzene was detected at well MW-2. Well MW-3 showed 0.67 ppm avgas, and 300, 8.2, 21, and 130 ppb benzene, toluene, xylene, and ethylbenzene, respectively. Well MW-4 showed 0.06 ppm TPH as avgas, and 0.59 ppb xylene only. No benzene, toluene, or ethylbenzene was detected. The trip blank showed non-detectable concentrations of all TPH and BTXE compounds.

The analytical results of this sampling episode differ from the initial sampling episode. Table 2 presents a summary of chemical analytical data for each well. Well MW-1 showed the largest difference of the two sampling episodes. The initial sampling episode at MW-1 showed non-detectable concentrations for all chemicals analyzed. The initial sampling episode at MW-3 also showed non-detectable concentrations of TPH and BTXE. The initial sampling episode at MW-2 showed 1.7 ppb ethylbenzene only. The results from this sampling episode at MW-2 did not show any ethylbenzene. However, low concentrations of TPH as avgas, and toluene and xylene were detected at MW-2 during this sampling round. The initial results from MW-4 showed non-detectable concentrations of TPH and BTXE. The results from this sampling round at MW-4 showed very low concentrations (near detection limits) of TPH and xylene only.

GROUNDWATER ELEVATION MEASUREMENTS

Groundwater elevation measurements were taken on March 14, 1991 prior to purging the wells for sampling. Table 3 presents a summary of the groundwater surface levels. The measurements taken during this sampling round differ by approximately two feet (higher) than measurements taken during the initial sampling episode. The gradient calculation for this sampling round is similar to the initial gradient calculation. According to groundwater surface measurements, the gradient does not exceed 0.17 feet over a 300 foot lateral distance. Groundwater flow direction appears to be in a easterly to southeasterly direction.

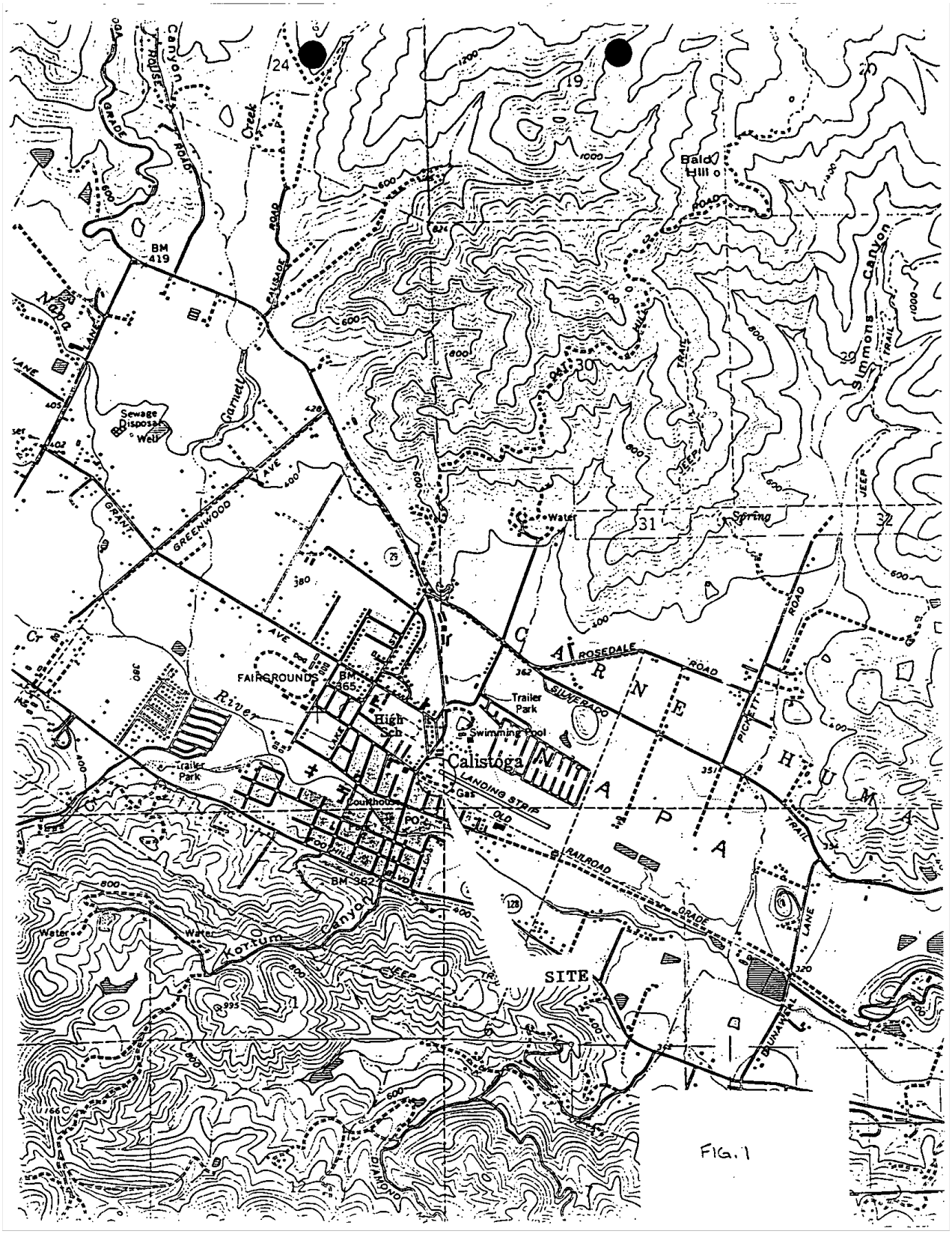

Canyon
Creek
Bald Hill
Simmons Canyon
BM 419
Sewage Disposal Well
Cornett
GREENWOOD AVE
GRANT
Water
Spring
ROSEDALE ROAD
SILVERADO
Trailer Park
Swimming Pool
FAIRGROUNDS
BM 365
High Sch
River
Calistoga
Courthouse
PO
Gas
LANDING STRIP
OLD RAILROAD GRADE
BM 362
Kotzum Canyon
SITE
PICKETT ROAD
TRAIL
DUNAWELL LANE
DIAMOND
NAPA
CARNEROS
HUMMOCK
FIG. 1

FIGURE 2

SITE PLAN AND GROUNDWATER ELEVATIONS

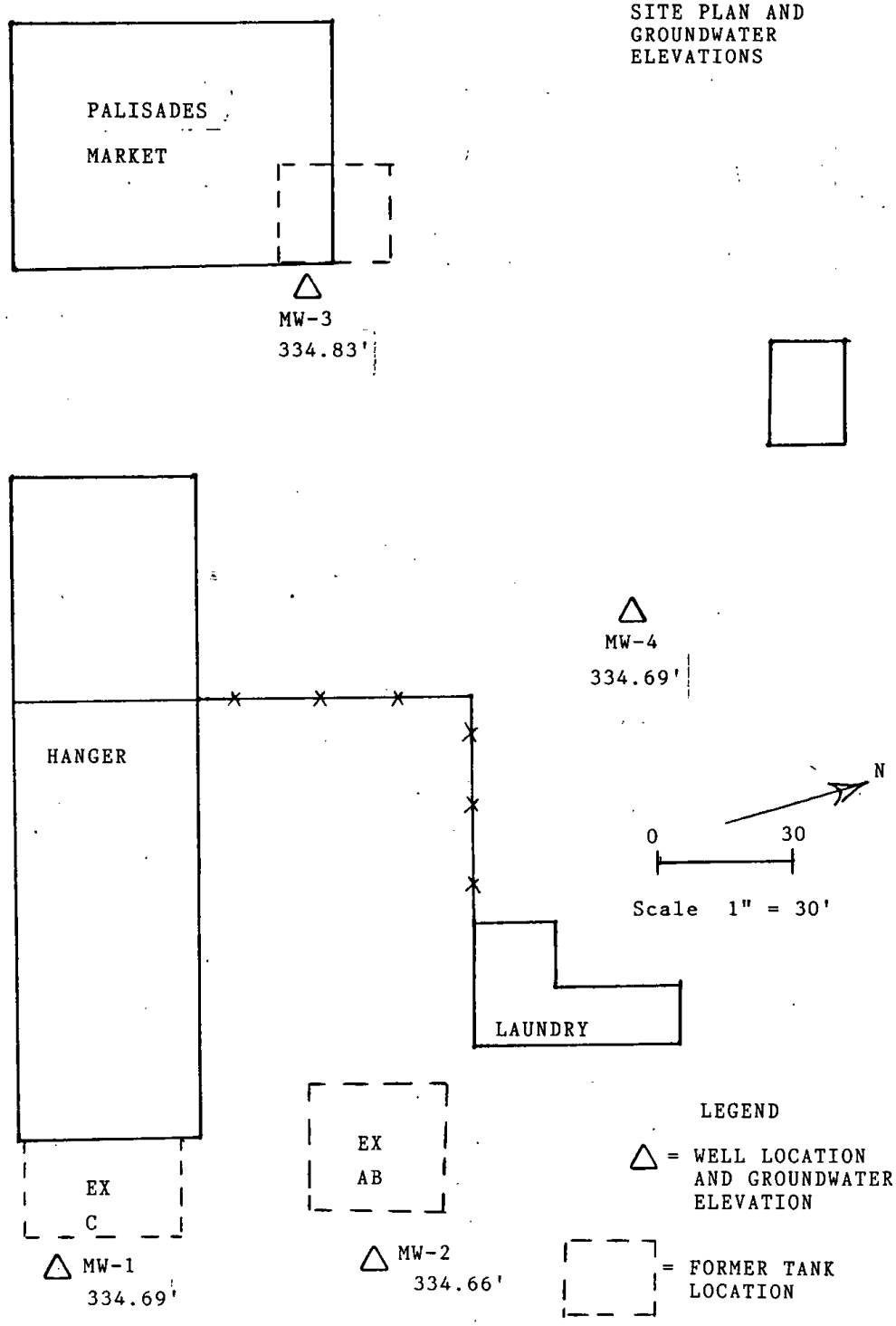


TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
CALISTOGA GLIDERPORT AND PALISADE MARKET
CALISTOGA, CALIFORNIA

MARCH 14, 1991

(PPM)

Sample Location	TPH	Benzene	Toluene	Xylene	E.benzene
MW-1	1.2(av)	0.14	0.0009	0.049	0.039
MW-2	0.61	ND	0.004	0.0007	MD
MW-3	0.67	0.3	0.008	0.021	0.13
MW-4	0.06	ND	ND	0.0006	ND
Trip Blank	ND	ND	ND	ND	ND
RL	0.05	0.0005	0.0005	0.0005	0.0005

TPH - Total petroleum hydrocarbon as gasoline (g) and avgas (av)
ND - Not detected at laboratory reporting limits
RL - Laboratory reporting limits

TABLE 2

CHEMICAL DATA SUMMARY
WELL MW-1

Chemical	Date Sampled and Concentration (ppm)	
	11/20/90	3/14/91
TPH(av)	ND	1.2
Benzene	ND	0.14
Toluene	ND	0.0009
Xylene	ND	0.049
Ethylbenzene	ND	0.039

TPH - Total petroleum hydrocarbon as gasoline (g) and avgas (av)
ND - Not detected at laboratory reporting limits

TABLE 2 (Continued)

CHEMICAL DATA SUMMARY
WELL MW-2

Chemical	Date Sampled and Concentration (ppm)	
	11/20/90	3/14/91
TPH(av)	ND	0.61
Benzene	ND	ND
Toluene	ND	0.004
Xylene	ND	0.0007
Ethylbenzene	0.0017	ND

TPH - Total petroleum hydrocarbon as gasoline (g) and avgas (av)
ND - Not detected at laboratory reporting limits

TABLE 2 (Continued)

CHEMICAL DATA SUMMARY
WELL MW-3

Chemical	Date Sampled and Concentration (ppm)	
	11/20/90	3/14/91
TPH(av)	0.8	0.67
Benzene	0.0008	0.3
Toluene	0.0007	0.0082
Xylene	0.0013	0.021
Ethylbenzene	ND	0.13

TPH - Total petroleum hydrocarbon as gasoline (g) and avgas (av)
ND - Not detected at laboratory reporting limits

TABLE 2 (Continued)

CHEMICAL DATA SUMMARY
WELL MW-4

Chemical	Date Sampled and Concentration (ppm)	
	11/20/90	3/14/91
TPH(av)	ND	0.06
Benzene	ND	ND
Toluene	ND	ND
Xylene	ND	0.00059
Ethylbenzene	ND	ND

TPH - Total petroleum hydrocarbon as gasoline (g) and avgas (av)
ND - Not detected at laboratory reporting limits

TABLE 3

MONITOR WELL AND GROUNDWATER SURFACE ELEVATION DATA

Well Number	Well Elevation (MSL)	Groundwater Surface Elevation (MSL)
MW-1	348.72	334.69
MW-2	348.53	334.66
MW-3	349.65	334.83
MW-4	348.92	334.69

Groundwater elevation measurements taken 3/14/91

ATTACHMENT 1

ANALYTICAL DATA SHEETS AND
CHAIN-OF-CUSTODY FORMS

NET Pacific, Inc.

Client No: 692
®Client Name: Great Pacific & Assoc.
NET Log No: 6505

Date: 03-26-91
Page: 2

Ref: Calistoga Airport

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results MW-1 03-14-91 79909	MW-2 03-14-91 79910	Units
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			03-16-91	03-16-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	ND	ND	mg/L
as Jet Fuel		0.05	1.2	0.61	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			10	1	
DATE ANALYZED			03-16-91	03-16-91	
Benzene		0.5	140	ND	ug/L
Ethylbenzene		0.5	39	ND	ug/L
Toluene		0.5	0.93	4.4	ug/L
Xylenes, total		0.5	49	0.73	ug/L

NET Pacific, Inc.

Client No: 692
Client Name: Great Pacific & Assoc.
NET Log No: 6505

Date: 03-26-91
Page: 3

Ref: Calistoga Airport

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results MW-3 03-14-91 79911	MW-4 03-14-91 79912	Units
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			03-17-91	03-16-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	ND	ND	mg/L
as Jet Fuel		0.05	0.67	0.06	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			10	1	
DATE ANALYZED			03-17-91	03-16-91	
Benzene		0.5	300	ND	ug/L
Ethylbenzene		0.5	130	ND	ug/L
Toluene		0.5	8.2	ND	ug/L
Xylenes, total		0.5	21	0.59	ug/L

NET Pacific, Inc.

Client No: 692
Client Name: Great Pacific & Assoc.
NET Log No: 6505

Date: 03-26-91
Page: 4

Ref: Calistoga Airport

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results trip blank 03-14-91 79913	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (WATER)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			03-16-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	ND	mg/L
as Jet Fuel		0.05	ND	mg/L
METHOD 602			--	
DILUTION FACTOR *			1	
DATE ANALYZED			03-16-91	
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	ND	ug/L

NET Pacific, Inc.

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
ICVS	:	Initial Calibration Verification Standard (External Standard).
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

[redacted]
435 TESCONI CIRCLE
SANTA ROSA, CA 95401
TEL: 707-526-7200
FAX: 707-526-9623

CHAIN OF CUSTODY RECORD

[redacted]

6505

PROJ. NO.

PROJECT NAME CALISTOGA AIRPORT
GREAT PACIFIC ASSOC.
P.O. BOX 4114 GEORGETOWN, CA 95634

SAMPLERS: (Signature) Joseph Romer

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	GAS BTEX						REMARKS
	3/14			X	MW-1	3	X						AVIATION FUEL CONTAMINATION run (JRA Jet fuel) run aviation fuel
	↓			↓	MW-2	3	X						5 day TAT
					MW-3	3	X						pel bud to Nora 3/15
					MW-4	3	X						
				N/A	TRIP BLANK	2	X						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Joseph Romer	3/14/91 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		J. Schwartz	3/14/91 1730		

LOP 345

GPI
ENVIRONMENTAL MANAGEMENT
ASBESTOS GEOLOGICAL ENVIRONMENTAL
CONSULTANTS AND LABORATORY SERVICES
1516 Grant Avenue,Suite 226 Novato, California 94945-3147 415-892-9016
415-892-6390 (FAX)

14 July 1995

Report #4c

RECEIVED
JUL 17 1995
DEPT. OF ENVIRONMENTAL MANAGEMENT

Mr. Ed Halbach
Napa County Department of
Environmental Management
1011 3rd Street, Room 101
Napa, California 94558

RE: Response to Napa County's Division of Environmental Health letter dated 16 May 1995 regarding Case Closure for Airport Properties/Calistoga Gliderport, 1506/1546 Lincoln Avenue, Calistoga (NAPA0345).

Dear Mr. Halbach

GPI Environmental Management (GPI) is pleased to submit on behalf of the responsible party, the following information and responses to the six reasons for which case closure was not granted for the subject site. The responsible party, in addition, requests of the County to reconsider case closure based on the information provided in this letter.

1) Monitoring well number MW-1 was sampled on 28 June 1995 and the results of this sampling event has been enclosed with this letter as a separate report. Based on this and previous sampling events, it remains evident that the concentration of dissolved phased benzene has stabilized and/or declined during the previous two years. Although the limited source of continued near-surface groundwater contamination can not be determined, it is our professional opinion that additional groundwater monitoring will not provide any new information concerning the concentration of near-surface groundwater contamination. There is sufficient near-surface groundwater data for a determination of the potential impact to on-site and off-site concerns. All other dissolved phase petroleum and aromatic hydrocarbons have been predominately non-detectable throughout the two year groundwater monitoring program.

   Although benzene continues to be detected in MW-1 just above the Maximum Contaminant Level (MCL) of 1 ppb established by the California Department of Health Services, dissolved benzene concentrations appears to have stabilized between 1.3 and 6.1 ppb since the fourth quarter groundwater sampling event in September 1993. Natural degradation is strongly suspected to be a component in the observed decline in dissolved phase benzene concentration in MW-1. Since the potential source of additional soil/groundwater contamination have been removed from the site, the potential impact to of benzene to near-surface groundwater would remain limited in extent and would continue to decrease in the future.

2) A comprehensive catalog of near-by water wells was submitted by Reay Environmental Services in May of 1990 as part of their workplan for monitoring well installation. We have attached this listing with a map of all well locations as **Appendix A**.

3) As previously discussed in our reports dated 2 March 1995 and 25 November 1992, the potential for the observed near-surface groundwater contamination to impact nearby water supply wells is nearly nil. This is based on the following hydrogeologic conditions at the subject site and known well construction details for nearby wells:

a) The potential vertical migration of aromatic hydrocarbon contamination near-surface groundwater would be severely restricted due to:

1) The elevated water temperatures (up to 91° F) of the gravelly sand unit would suggest lateral migration of hot surficial waters from the adjacent property to the northeast. This is based on that the Nance's and Indian Springs resort fields are the closet geothermal site to the subject property. The localization of hot surficial waters in the Calistoga area is theorized to result from the deep seated water upwelling along fault conduits and then reaching the surface along the basal contact between the alluvial sediments and the pyroclastic debris flows. This allows deep seated water to bypass the groundwater barrier of altered volcanic ash fall material (clays) within the alluvial section and flow laterally within permeable near-surface units;

2) Taylor and others, 1981, of the US Geological Survey have established that vertical continuity between water bearing zone is prohibited by the presence of smectite (clay) bearing units. These units ranging from several inches to tens of feet acts as aquitards and separate water bearing zones capable of producing 10-15 gpm. Drill hole logs from several CDMG exploration borings within one-half to one-mile to the west of this site have documented this phenomena. In their investigation, it was observed that water bearing gravel and silty gravel were interstratified with dry silty clay to clay unit ranging from near-surface (less than 20 feet) to depths exceeding 800 feet;

3) Lithologies and resulting hydrologic regimes observed in the CDMG boring logs and those observed at this site are similar. Monitoring well boring logs generated by Reay Environmental Services has documented the existence of a impermeable silty clay layer underlying the near-surface groundwater bearing sands and gravel. The sandy gravel-gravelly sand unit is approximately 8' in thickness at all monitoring well locations except for MW-4 (5' thick);

4) Potential impact to adjacent properties is negligible due to the south easterly-easterly (towards the airport runway) groundwater flow direction; and

5) The two water supply wells within 500' of the site are screened at depths exceeding 100 feet bgs. Potential impact of near-surface groundwater contamination to these wells would be nil due to physical distance and occurrence of impermeable clay layers between the near-surface groundwater contamination and the screened interval of these wells

b) The potential impact to off-site wells and lateral migration of aromatic hydrocarbon contamination groundwater appears to be limited based on the following evidence:

1) Elevated water temperature encountered at the site would likely facilitate natural degradation or volatilization of dissolved phase aromatic hydrocarbons from the near-surface saturated zone;

2) Subsurface lithologic stratigraphy is consistent with alluvial fan depositional environments associated with river valleys. Water bearing zones within this type of depositional environment are stratigraphically controlled, with water-bearing sands and gravels interstratified with relatively impermeable silty clay and clays. The alluvial units of sand and gravel are not continuous for any great lateral extent due to their lenticular shape and tend to be cut-off due to shifting stream patterns in a fluvial environment. The lenticular beds are typical dissected and then inundated by subsequent flood plain and channel deposits. Within a specific vertical section, movement of near-surface groundwater would be dependent upon the transmissibility coefficient of adjacent beds;

3) Non-detectable petroleum and aromatic hydrocarbon laboratory results for soil samples collected during installation of MW-1 in the verified downgradient direction from former excavation "C";

4) Groundwater laboratory analyses have documented declining concentrations of dissolved phase benzene groundwater contamination in the verified downgradient direction from the former tank location. This would suggest that either the source of additional groundwater contamination is no longer a threat to near-surface groundwater and/or natural degradation processes have reduced the concentrations of soil/groundwater contamination to existing levels; and

5) All nearby domestic and/or geothermal wells which may have the potential to be impacted are either upgradient or cross-gradient from the subject site.

4) The location of any additional underground storage tanks has been shown in GPI's case closure report dated 2 March 1995 in **Plate 1** (immediately north of the existing pump island. The Department of Environmental Management has a tank operating permit on file and accompany monitoring and site plan.

5) The designations for excavations "A" and "C" were switched in GPI's case closure report dated 2 March 1995 and in the 7th Quarter Groundwater monitoring report dated 24 October 1994. Former excavation "A" was located underneath the Palisades Market. Former excavation "C" was located between the airport hanger and MW-1. All information in section IV (Previous Site Activities) as presented in GPI's case closure report dated 2 March 1995 is correct.

6) All available information concerning the concentration and locations of subsurface soil contamination at each of the former tank excavation is provided in GPI's case closure report dated 2 March 1995 in section IV (Previous Site Activities) starting on page 5 and in **Tables 1 to 3 in Appendix A.**

Based on the information provided in the enclosed documentation for case closure, the responsible party requests of Napa County Department of Environmental Management to approve case closure for the subject site. We trust this provides the information required for the subject site. If any questions regarding this closure report arise, please don't hesitate to call me at (415) 892-9016.

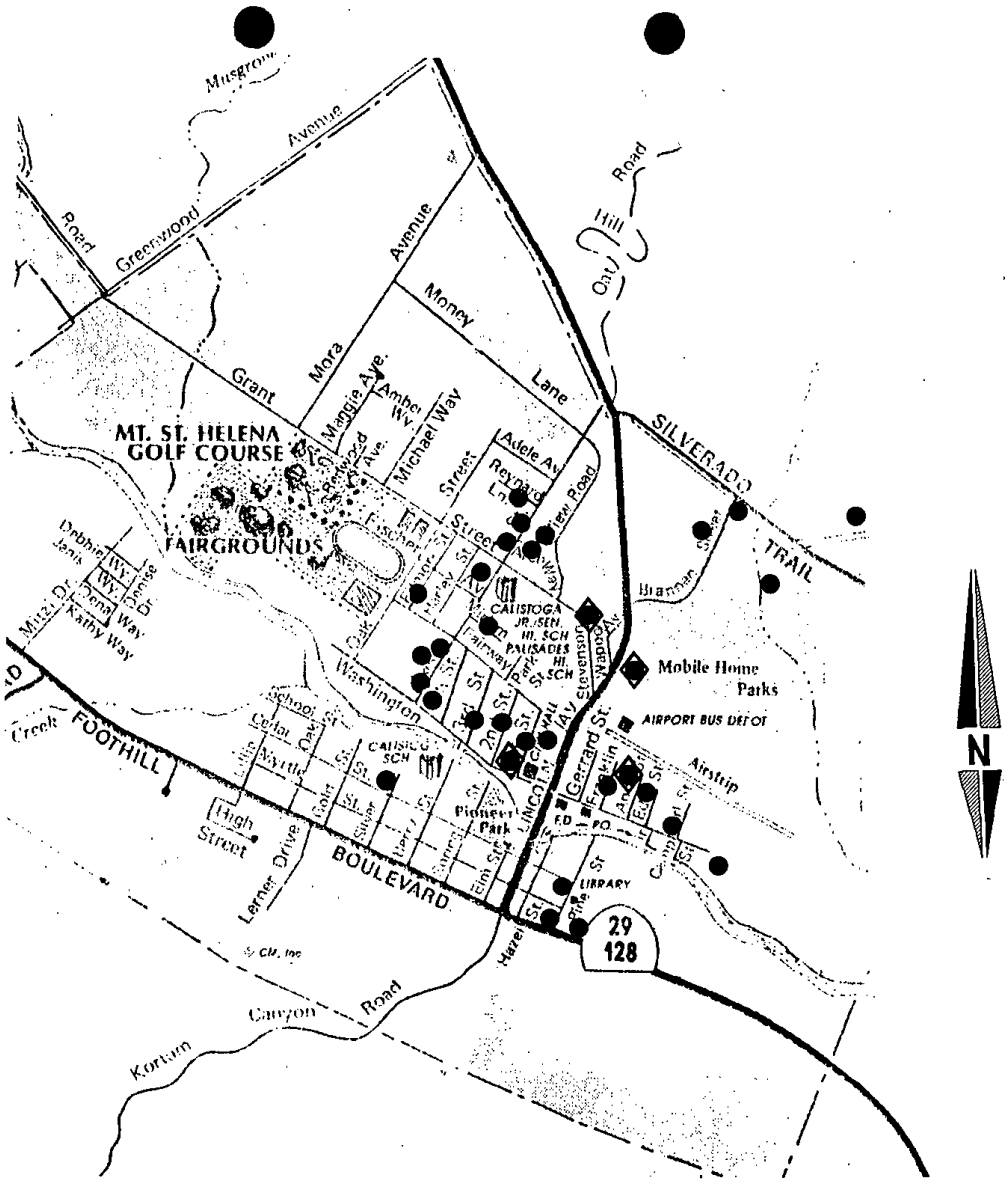
Respectfully Submitted
GPI Environmental Management

Peter Almendinger
CA Register Geologist #4734

cc: **Mr. John Marchesini**, Calistoga Gliderport, w/o Appendix A
Mr. John Merchant, Airport Properties, w/o Appendix A

APPENDIX A

INVENTORY OF OFF-SITE DOMESTIC/COMMERICAL WELLS WITHIN 1/2 MILE OF 1506/1546 LINCLON AVENUE, CALISTOGA



● DOMESTIC WATER SUPPLY WELLS

◆ GEOTHERMAL /COMMERICAL WELLS

WELL LOCATIONS ARE APPROXIMATE

One inch = 1/4 mile

GPI Enivronmental Management

ASBESTOS GEOLOGICAL ENVIRONMENTAL CONSULTANTS AND LABORATORY SERVICES

LOCATION MAP OF NEARBY WATER SUPPLY AND GEOTHERMAL WELLS WITHIN 1/4 MILE OF SUBJECT SITE

CALISTOGA GLIDERPORT
1506/1546 LINCOLN AVENUE, CALISTOGA
LOP-345

PLATE 1

Inventory of Wells Located in Township 8N Range 6W Section 6, County Napa.

Owner	Owner's Address	Well Location	Year Drilled	Use
Fred Fisher	4771 Silverado Tr. Calistoga	(6A) 1/2 mi N of Dunaweal Ln. on Silverado Tr	79	Dom
Mrs John Bernard	2708 Sonoma Ave. Santa Rosa Ca.	(6D) On NW Corner of Washington and Earl St Calistoga Ca.	62	Dom
Peter Gordon / Leo Soong	661 Jewel Ave Mill Valley 94941	(6E) Across from City Corporation Yard (Washington St.)	77	Dom
		1/4 mi of Washington St.		

Inventory of Wells Located in Township T7N Range 6W Section 31, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Lawrence Simons - Peter Van Zandt	631 First St. Santa Rosa Ca	(31M) Brannon St, 1/4 mi, 600'	79	Dom
Shih-Chi Wu	~~1402 Anna St.~~ 4827 Geary Blvd. San Francisco 94118	(31N) 1402 Anna St. Anna, Edelweiss, 25', 10'	77	Dom
City of Calistoga	Calistoga Ca	Well on Allcraft property (31R) Silverado Tr 1 1/4 mi, Hwy 29, Hwy 128	64	Mun
Calistoga Mineral Water	1477 Lincoln Ave Calistoga Ca.	(31) 2 blk. S. of int. of Silverado Tr and Hwy 29	85	Ind
Calistoga Steam Rail Road	Silverado Tr. @ Brannon Calistoga Ca.		77?	Dom
Howard & Carolynne Clair	53 Brannon St Calistoga Ca. 94515	(31) 150 yd, Brannon St, Silverado Tr	81	Dom

Inventory of Wells Located in Township T9N Range 6W Section 31, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Gene Duffy	3076 Myrtledale Rd Calistoga, Ca. 94515	Rosedale Rd (31)	1987	Dom
L Nasone Co.	1102 Silverado Tr. Calistoga Ca.	(31E)	75	Dom
Roy Rosenberg	2646 Francisco Wy El Cerrito Ca.	2646 Silverado Tr Calistoga	78	Dom

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Pat BRogah	1857 Money Ln Calistoga	(36B) 1/4 mi W of Lake St. on Money Ln	87	Dom
Napa Springs Bottling Co.	960 - 89th Ave Oakland Ca 94621	(36D) Cr. of Stevenson and Grant. (Old Winery)	69	Ind.
Pachtean's Original "geyser" ~~lake~~	Behind winery in Calistoga		?	?
Calistoga Joint Unified School dist.	Po Box 498 1327 Berry St. Calistoga Ca	1608 Lake St	83	Gardening
Kendall McCune	1606 Harly St. Calistoga Ca 94515	1604 Harly St. Fisher Lake St 100' 200'	78	Dom
Alex Hawrisch	1409 Lake St Calistoga Ca	(36Q) 150' Lake Washington	78	Dom
Mrs. ~~[illegible]~~ Pozzi	1402 Lake St Calistoga Ca	Lake 70' Washington	80	Dom
Wm Shepard	1601 Cedar St. Calistoga Ca	1601 Cedar St Corner of Silver and Cedar Sts	77	Dom

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Ed Ottonello	3021 Myrtledale Rd Calistoga Ca	Same	77	Dom
Albert Pitto ~~3555 Delano Ave~~	3555 Delano Ave San Francisco Ca	SW corner of Scott Wy and HWY 29 Calistoga	64	Dom/Irr
Fred Pritchard	1148 Denise Dr Calistoga Ca	Michael Way ~~Michael Way~~	79	Dom
Thomas Redmond	1747 Oak St Calistoga Ca	Same	83	Dom
Roman Spa	1300 Washington St Calistoga Ca	Corner of Washington and First ~~Washington~~ 1st/Kesa 200'	80	Ind
Paul Roux	PO Box 126 Calistoga Ca	1713 Michael St	79	Dom
Louie Della Santina	1839 25th Ave San Francisco Ca	1428 3rd St.	62	Dom/Irr
Don Schmidt	1714 Raymond St Calistoga Ca	Same	81	Dom/Irr

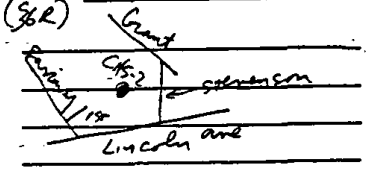
Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Bert Johnson	1818 Myrtle St Calistoga Ca. 94515	Same	81	Dom/Irr
Helen Johnson	#18 View Rd Calistoga	Same	81	Dom/Irr
W.C. Oman & Cris Kitters	18 & 24 Mariam Dr Calistoga	Same	63	Dom
Roy Lally	1401 Cake St Calistoga	2315 Grant St	77	Dom/Irr
Welton Lee	Po Box 641 Calistoga	2080 Mora Ave	65	Dom
John Lomori	1608 Oak St. Calistoga	Same	80	Dom
Ron Lozel	1884 Mora Ave Calistoga	Same	81	Dom/Irr
John Manley	1125 Lincoln Ave Calistoga	Same	79	Dom/Irr
Ronald McBride	1703 Michael Wy Calistoga	Same fence 3' 4' 2' ← house		

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Clifford Sheldon	1018 Grand St Calistoga Ca	Corner of Scottsville Wy and Hwy 29 (600' West)	64	Dom
Ken Siler	1510 Fillmore St Calistoga Ca	150' N of Fairway Dr on Fillmore St.	81	Dom
Guilio Simonetti	1816 Grant St Calistoga Ca	1/4 mi W. of Calistoga on Grant	~~[illegible]~~ 80	Dom
Peter L Stadlaff	1404 N. Oak St. Apt F Calistoga Ca	Michael Wy	79	Dom/Irr
Walter Tamzoni	2046 Grant St Calistoga	Same	78	Dom
Mark Thomas	1514 Fairway Calistoga	Same	82	Dom
Terry Tremblay (2 wells)	1815 Spring St St. Helena Ca	2001 Mora Ave	85	Dom
Al Triglia	1722 N. Oak St. Calistoga Ca	Same	77	Dom
George Turner	1730 Raymond Ln	Same	81	Dom/Irr

Inventory of Wells Located in Township 9N **Range** 7W **Section** 36, **County** Napa.

Owner	Owner's Address	Well Location (S&R)	Year Drilled	Use
Calistoga Unified School Dist.	1327 Berry St Calistoga Ca		86	Geothermal
Sam Finegold.	Sacramento Ca	1475 1st St.	62	Dom
Joe Nones	1418 Franklin St Calistoga	1418 Franklin St.	63	Dom
Artie Albert.	~~25~~ 40 Navajo St. San Francisco Ca.	25 Mora Ave	65	Dom
Jim Archibald	1365 Fairview Dr. Calistoga Ca.	Same	69	Dom
Jule Ashworth	1758 N. Oak St Calistoga Ca	2353 Grant Ave.	77	Dom/I
Greg Antunano	39 View Rd Calistoga CA	Same	77	Dom
(2 wells) Frank Barbaira	1718 Reynard Lane	Same	81	Dom Irr
Frank Barardi	201 Templeton Ave Daley City Calif	1/4 mile SW of Hwy 29 on Mora Dr	58	Dom Irr

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
John T Boyington	1755 Oak St Calistoga Ca	Same 10' [illegible] / oak	75	Dom
Patrick Brogan	PO Bx 408 Calistoga	1857 Money Ln	76	Dom
Earl Brown	142 Bella Vista Belvedere Ca	Lake St	79	Dom/Irr
City of Calistoga	City Hall Calistoga Ca	South Washington St.	65	Mun
Calistoga 7th Day Adventist Church	Box 577 Calistoga Ca	2104 Grant St.	82	Dom/Irr
Louis and Lena Carlenzoli	1703 Reynard Ln Calistoga Ca	Same	81	Dom/I[illegible]
Gerald Carlin	1751 Oak St. Calistoga Ca	Same (behind House)	75	Dom
Casa ~~Plant~~ Blanca Convalescent Home	1715 Washington St Calistoga	557' E of Washington St	81	Dom
2nd well		200 yds W of Washington St	82	Dom

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Lester Cafhanasso	1443 2nd Ave Calistoga	Bet. House & Garage.	79	Dom
Shafki Citakes	1834 Lake St. Calistoga	Same	81	Dom/Irr
Albert Custiani	909 Evelyn Ave Albany Ca 94706	1890 Mra Ave	87	Dom
Curvaison Inc 2 wells.	Quail Hill San Francisco Ca 94903	2565 Grant St.	74	Dom
Bruce Dill	2320 Grant St Calistoga	Same	79	Dom
Harry Drake	#8 View Dr. Calistoga	S of View Behind House	79	Dom
Enti Ferrari	733 Key Route Blvd. Albany Ca.	28 Mra Ave	65	Dom
Barbara Flores	1842 Lake St. Calistoga	Same	78	Irr
Claude Caravalde	1787 Grant St Calistoga	Same	79	Irr

Inventory of Wells Located in Township 9N Range 7W Section 36, County Napa

Owner	Owner's Address	Well Location	Year Drilled	Use
Jack Geary	25 View Rd Calistoga Ca	N-120' from Road NE corner of House	79	Dom
Beverly Gerhard	#10 View Dr Calistoga Ca	Same Behind House	79	Dom
L.E. Gleason	1713 Mora Ave Calistoga Ca	2nd House north on W side of Mora off Grant.	63	Dom
Ivan GOYAK	20 Bryant. Wy Orinda Ca	?	80	Dom
Matt Guisto 3 wells	1713 Lake St Calistoga Ca	1 Blk N W of Calistoga High School on Lake St x/H/S Washington	78	? (2nd) Irr
H.H. Gualtney	PO Box 684 Calistoga Ca	1731 N. Oak St.	~~Dom~~ 85	Dom
Holy Assumption Monastery	1517 Washington St Calistoga Ca	Same	77	Dom
Paula Hooper	1420 Lake St Calistoga Ca	200 yds N of Washington off Lake St	80	Dom

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DIVISION OF
ENVIRONMENTAL HEALTH

#13

LOP 345

REPORT

DOCUMENTATION/REQUEST FOR CASE CLOSURE

1506/1546 LINCOLN AVENUE, CALISTOGA, CA (LOP-345)

2 MARCH 1995

PREPARED FOR:

Mr. John Merchant
Airport Properties
2444 Clay Street
San Francisco, California 94114

PRESENTED BY:

GPI Environmental Management
1516 Grant Avenue, Suite 226
Novato, California 94945
(415) 892-9016

REPORT PREPARED IN ACCORDANCE TO:

"Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", Appendix A

REGISTERED GEOLOGIST
License No. 4734
Expires 6/95
PETER A. ALMENDINGER
STATE OF CALIFORNIA

Peter Almendinger
CA Register Geologist #4734

Project Number : 92383

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REFERENCES

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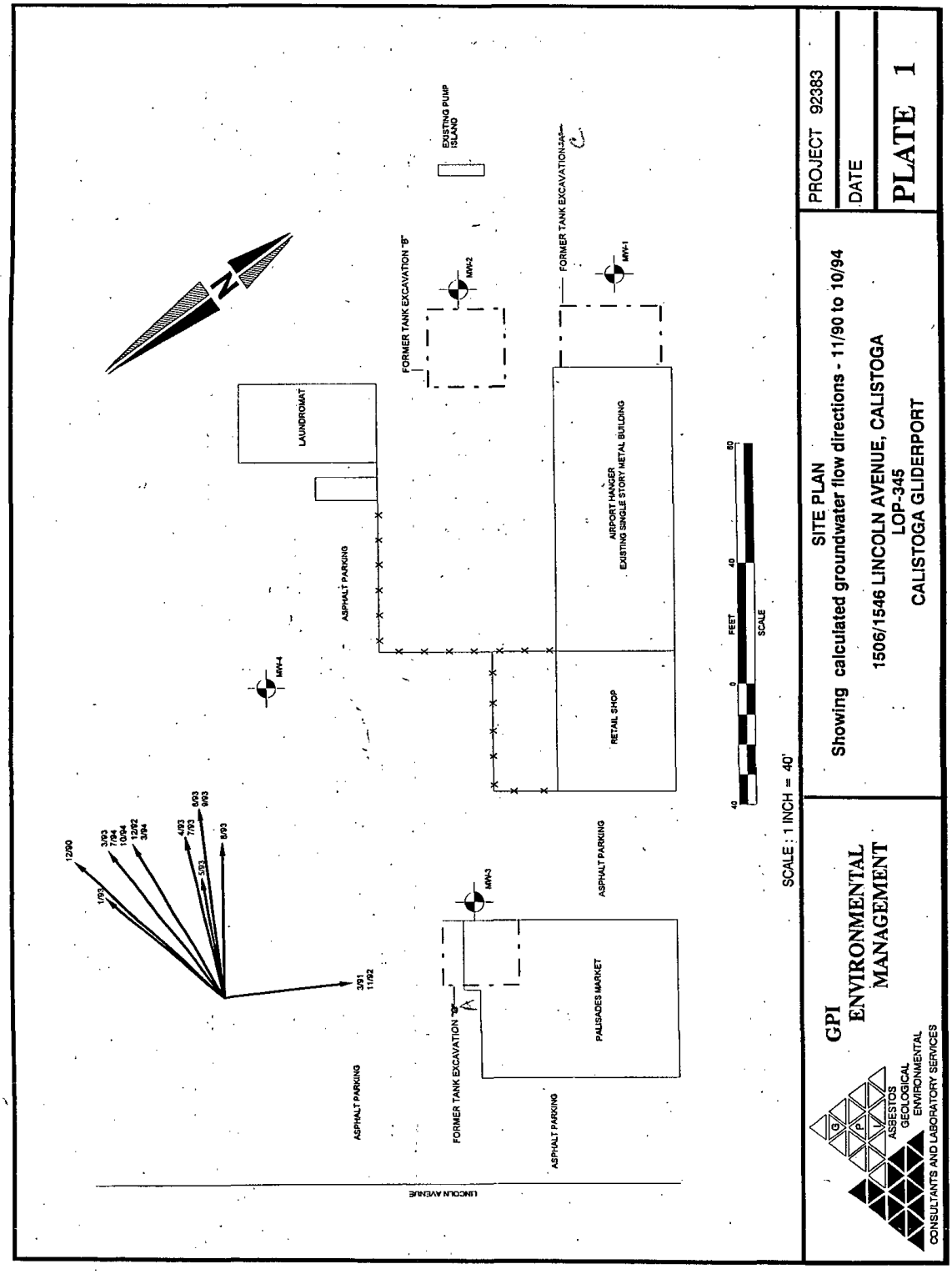
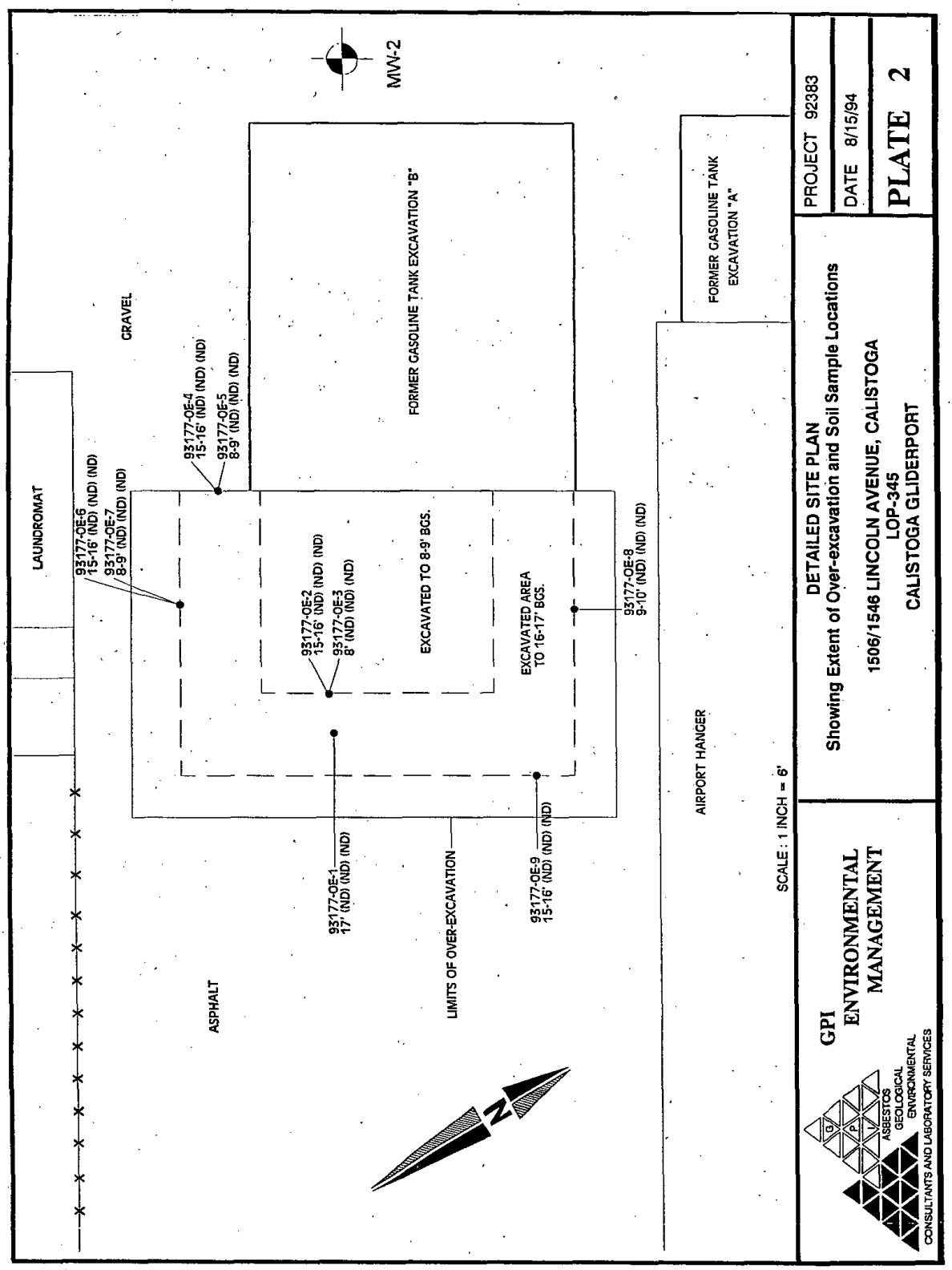

N
LAUNDROMAT
ASPHALT PARKING
FORMER TANK EXCAVATION "B"
MW-2
EXISTING PUMP ISLAND
FORMER TANK EXCAVATION "A"
MW-1
AIRPORT HANGER
EXISTING SINGLE STORY METAL BUILDING
RETAIL SHOP
MW-4
12/90
1/93
3/93
7/94
10/94
12/92
3/94
4/93
7/93
5/93
8/93
9/93
6/93
3/91
11/92
MW-3
ASPHALT PARKING
PALISADES MARKET
FORMER TANK EXCAVATION "C"
ASPHALT PARKING
ASPHALT PARKING
LINCOLN AVENUE
40
0
40
80
FEET
SCALE
SCALE : 1 INCH = 40'
SITE PLAN
Showing calculated groundwater flow directions - 11/90 to 10/94
1506/1546 LINCOLN AVENUE, CALISTOGA
LOP-345
CALISTOGA GLIDERPORT
PROJECT 92383
DATE
PLATE 1
GPI
ENVIRONMENTAL
MANAGEMENT
ASBESTOS
GEOLOGICAL
ENVIRONMENTAL
CONSULTANTS AND LABORATORY SERVICES


MW-2
LAUNDROMAT
GRAVEL
93177-OE-6
15-16' (ND) (ND) (ND)
93177-OE-7
8-9' (ND) (ND) (ND)
93177-OE-4
15-16' (ND) (ND) (ND)
93177-OE-5
8-9' (ND) (ND) (ND)
FORMER GASOLINE TANK EXCAVATION "B"
93177-OE-2
15-16' (ND) (ND) (ND)
93177-OE-3
8' (ND) (ND) (ND)
EXCAVATED TO 8-9' BGS.
EXCAVATED AREA
TO 16-17' BGS.
93177-OE-8
9-10' (ND) (ND) (ND)
FORMER GASOLINE TANK
EXCAVATION "A"
AIRPORT HANGER
93177-OE-1
17' (ND) (ND) (ND)
LIMITS OF OVER-EXCAVATION
93177-OE-9
15-16' (ND) (ND) (ND)
ASPHALT
N
SCALE : 1 INCH = 6'
PROJECT 92383
DATE 8/15/94
PLATE 2
DETAILED SITE PLAN
Showing Extent of Over-excavation and Soil Sample Locations
1506/1546 LINCOLN AVENUE, CALISTOGA
LOP-345
CALISTOGA GLIDERPORT
GPI
ENVIRONMENTAL
MANAGEMENT
ASBESTOS
GEOLOGICAL
ENVIRONMENTAL
CONSULTANTS AND LABORATORY SERVICES

I. INTRODUCTION

GPI Environmental Management (GPI) is pleased to submit the enclosed documentation summarizing site activities and resulting conclusions for the subject site requested for case closure. An unauthorized release of petroleum constituents was documented to have occurred into near-surface soils during removal of five underground storage tanks at three locations in January 1990. Over-excavation activities were initiated at the time of tank removal to remove where feasible, all gasoline and related hydrocarbon contaminated soils derived from the unauthorized release of petroleum products. Elevated concentrations of petroleum and aromatic hydrocarbons were documented through laboratory analysis to remain in subsurface soils at former tank excavations "A" (MW-3) and "B" (MW-2). Initial excavation groundwater samples obtained upon completion of over-excavation activities indicated slightly elevated concentrations of both petroleum and aromatic hydrocarbons.

Based on groundwater/soil laboratory results from the initial tank removal and over-excavation activities, the Napa County Department of Environmental Management (Napa County) and the San Francisco Bay Regional Water Quality Control Board (Regional Board) requested on 1 February 1990 to further investigate the potential impact to near-surface groundwater. The investigation was requested to determine, if any, the lateral and vertical extent of groundwater contamination at the former underground tank locations. At least one monitoring well was required to be placed within ten feet in the assumed downgradient direction from each former tank excavation to evaluate near-surface soil/groundwater quality.

An initial geohydrologic investigation work plan was submitted by Reay Environmental Services (RES), of Alameda on 7 May 1990 and approved by Napa County on 7 June 1990. On 11 and 12 November 1990, four soil boring were drilled and converted to 4-inch monitoring wells by Kvilhaug Drilling and Pump Company of Concord, under the direction of Great Pacific Associates (GPA). Initial well development was performed on 11/19/90 and initial groundwater samples were collected on 11/20/90.

On 16 October 1992, Napa County requested further investigation to determine the lateral and vertical extent of detected petroleum and aromatic hydrocarbon groundwater contamination in MW-1, MW-2, and MW-3. It was requested that the existing monitoring wells to undergo quarterly sampling/monitoring and a workplan for additional investigative actions to be completed. The responsible party, Mr. John Merchant retained GPI Environmental Management (GPI) to proceed with groundwater quarterly monitoring and preparation of a workplan for additional site investigative activities. A quarterly groundwater sampling program was initiated in November 1992 for all on-site monitoring wells. Since November 1992, on-site monitoring wells have been sampled seven times inclusive with the October 1994 groundwater sampling event.

In December of 1993, Napa County Department of Environmental Management requested that in order to facilitate case closure, over-excavation of previously identified contaminated soil along the northwestern side of former tank excavation "B" would be required. Continued quarterly groundwater sampling was also requested to confirm non-detectable concentrations of petroleum and aromatic hydrocarbons in MW-2 and MW-4 since the 1st quarter groundwater sampling event in November 1992, and the declining aromatic hydrocarbon contamination trend observed in MW-1 and MW-3.

Over-excavation activities on 27 July 1994 revealed that both petroleum and aromatic hydrocarbons at former tank excavation "B" were not present along the former northwestern excavation sidewall down to 17' BGS.

Groundwater sampling in March, July and October 1994 confirmed previously non-detectable concentrations of petroleum and aromatic hydrocarbons reported for MW-2, MW-3, and MW-4. Slightly elevated concentrations of aromatic hydrocarbons (benzene) continue to be detected in MW-1 adjacent to former tank excavation "A". Although benzene continues to be detected in MW-1 above the Maximum Contaminant Level (MCL) established by the California Department of Health Services, dissolved benzene concentrations appears to have stabilized between 1 and 15 ppb since the second quarter groundwater sampling event in March 1993.

This report was prepared using the the following guidance documents:

- The Leaking Underground Fuel Tank (LUFT) Field Manual, May 1988, SWRCB;
- The Regional Board Staff Recommendations for initial Evaluation and Investigations of Underground Tanks, 10 August 1990, North Coast, San Francisco Bay, and Central Valley Regional Water Quality Control Boards

II. SITE BACKGROUND/DESCRIPTION

SITE LOCATION/DESCRIPTION

The subject site consists of two parcels (1506/1546 Lincoln Avenue) currently owned since 1989 by Mr. John Merchant of San Francisco. In previous investigations, the Palisades Produce Market located at 1506 Lincoln Avenue was reported as being located at 1712 Lincoln Avenue. The subject property comprises several level acres of downtown Calistoga and is bounded on the northeast by Indian Springs Spa, northwest by Lincoln Avenue, and on the south and west by light commercial businesses. The property is occupied by a complex of five single story buildings which houses a aircraft hanger, laundromat, produce market, the Gliderport office, and miscellaneous small retail stores. Numerous underground utilities are located beneath the sidewalks along Lincoln Avenue. The facility layout, along with the former underground tank/excavation locations and existing monitoring wells are shown on the Site Plan attached as **Plate 1** .

III. SITE GEOLOGIC/HYDROLOGIC CONDITIONS

A. SITE GEOLOGY

The site is located in the upper Napa Valley at the southern end of the Mayacmas Mountains. The Mayacmas Mountains, part of the Coast Range province, are characterized by a series of northwest-trending folded and fault blocks and trust plates. In the Calistoga area, bedrock consists of extensive deposits of Pliocene age Sonoma Volcanics, and numerous exposures of non-marine sediments and sedimentary rocks of Pliocene to Holocene ages. The Sonoma Volcanics are a thick and highly variable series of andesitic to basaltic, with minor rhyolitic flows and with interbedded and discontinuous layers of tuff, tuff breccia, agglomerate and scoria. The Sonoma Volcanic directly overlie the Franciscan Formation within the upper Napa Valley region and is estimated to be over 1000 feet thick at this location.

The immediate site is underlain by recent alluvium deposits consisting of interbedded unconsolidated gravels, clayey gravels, silty gravels, poorly sorted sands, silty clays, and clay probably comprising channel, flood plain, and alluvial fan deposits. The poorly sorted sands to gravelly deposits contain abundant angular volcanic fragments and tuffaceous clays derived from the surrounding

Plio-Pleistcene Sonoma Volcanic Formation.

Based on Great Pacific Associates monitoring well logs, the predominate soil lithology down to 8 to 14' BGS consists of a gray-brown to dark gray silty clay. This unit is typically moist, low to moderate plasticity, and very stiff. This unit extends to 8' BGS in the vicinity of MW-2 and 14' BGS in MW-1 and MW-3. In MW-2 and MW-4, the silty clay is underlain by grayish-green to dark gray clayey silt to silty sand down to 14' and 16' BGS, respectively. The upper portion of this unit is relatively dense and the silt content increases with depth until the contact with the underlying water-bearing gravelly sand unit. In MW-1 and MW-3, the upper silty clay is in direct contact with a gravelly sand to sandy gravel unit at 14' BGS. The contact between the upper silty clay and lower silty sand dips steeply and eventually pinches out towards the south to southeast in the vicinity of MW-1 and MW-3.

At 14' BGS in MW-1 to MW-3 and 16' BGS in MW-4, the predominate lithology consists of a poorly sorted gravelly sand to sandy gravel. The sand and gravel-sized constituents consisted of multicolored, partially decomposed volcanic fragments typical of the underlying Sonoma Volcanics. The contact between the overlying silty clay and silty sand dips slightly towards the south-southeast. The sandy gravel-gravelly sand unit is approximately 8' in thickness at all monitoring well locations except for MW-4 (5' thick). This unit appears to be the principal near-surface water producing zone. Underlying the sandy gravel-gravelly sand at 21-22 feet BGS, the soil lithology consists of a brown to gray, moderately plastic silty clay.

Over-excavation activities confirmed previously logged subsurface lithologies during monitoring well installation. In the vicinity of MW-2, the upper 8' consists of a grayish brown to gray silty clay/clayey silt. This unit is typically damp, exhibits low permeability, moderate to very dense, and of moderate plasticity. Underlying the silty clay at 8' BGS, the predominate lithology is a grayish-green to dark gray clayey silt to silty sand down to 16.5-17.0' BGS. This unit was damp, of low to moderate plasticity, and moderately dense. The percentage of sand increases with depth until the underlying water-bearing gravelly sand is encountered at 16.5-17.0' BGS. Near-surface groundwater was encountered at 16.5-17.0' BGS, associated with the first occurrence of the gravelly sand unit. All units were relatively homogeneous and laterally continuous throughout the excavation.

B. SITE HYDROLOGIC CONDITIONS

The site lies in the northern portion of the Napa Valley, underlain by a thick section of Quaternary alluvial sediments and Plio-Pleistocene pyroclastic stratified rock which plunge to the southwest towards the Napa River. The intercalated alluvial units are thought to be the controlling factors in the movement of near-surface groundwater. Highly permeable alluvial sands and gravels are interbedded with less permeable to impervious volcanic units, creating a complex system of aquifers within the alluvial section. The alluvial units of sand and gravel are not continuous for any great lateral extent due to the lenticular and cut-off beds formed in a fluvial environment. The lenticular beds were dissected, and then inundated by subsequent flood plain and channel deposits. Within a specific vertical section, movement of groundwater would be dependent upon the transmissibility coefficient of adjacent beds.

In the Calistoga area, the silty clay of altered volcanic ash origin, have undergone alteration to smectite clay minerals. The resultant formation of these expansive clay units have formed effective stratiform barriers to vertical migration of groundwater. Drill hole logs from several CDMG exploration borings within one-half to one-mile to the west of this site have documented this phenomena. In their

investigation, it was observed that water bearing gravel and silty gravel were interstratified with dry silty clay to clay unit ranging from near-surface (less than 20 feet) to depths exceeding 800 feet. Lithologies and resulting hydrologic regimes observed in the CDMG boring logs and those observed at this site are similar. The regional groundwater flow direction at this location is approximately southwest following the subsurface structure towards the nearby Napa River.

Site specific hydrologic conditions have been documented for the subject site since December 1990. The principal near-surface water producing zone is a sandy gravel-gravelly sand unit approximately 8 feet in thickness at all monitoring well locations except for MW-4 (5' thick). This unit was reported by Great Pacific Associates to occur at 14' BGS in MW-1 to MW-3 and 16' BGS in MW-4 and consists of a poorly sorted gravelly sand to sandy gravel. During over-excavation activities in July 1994, the gravelly sand unit was first encountered at 16 to 17' BGS, where free near-surface groundwater was observed. The sand and gravel-sized constituents consisted of multicolored, partially decomposed volcanic fragments typical of the underlying Sonoma Volcanics. The contact between the overlying silty clay and silty sand dips slightly towards the south-southeast. Underlying the sandy gravel-gravelly sand at 21-22 feet BGS, the soil lithology consists of a brown to gray, moderately plastic silty clay aquitard. Site groundwater flow direction is influence by both seasonal changes in groundwater levels and lithologic structural control. The southeastern groundwater flow direction coincides within the southeastern-southerly slope of the underlying soil strata.

Static groundwater levels have been documented to respond to seasonal changes in precipitation, with up to a minimum of 6' feet of elevation variation between wet and dry seasons. It has been documented that maximum static groundwater elevations occur between January and April, coinciding with the periods of maximum precipitation and towards the end of the hydrologic wet season. The minimum static groundwater elevations occurs towards the end of the dry season (October/November). For each monitoring well, the response of static groundwater levels to increased precipitation and water infiltration is sharp, often rising several feet between monthly readings. As static groundwater levels decline, the decline is gradual until a minimum is reached at the end of the dry season. It should be noted that with accumulating precipitation totals during the early part of 1993, static groundwater levels did not continue to rise. Static groundwater levels reached a maximum in February and then began to decline during continued precipitation in March, April, and May. Static groundwater levels recorded during the groundwater monitoring period, except during January and February 1993, were within the screened interval in all monitoring wells.

The elevated water temperatures (up to 91° F) within the gravelly sand unit would suggest lateral migration of hot surficial waters from the adjacent property to the northeast. The localization of hot surficial waters in the Calistoga area is theorized to result from the deep seated water upwelling along fault conduits and then reaching the surface along the basal contact between the alluvial sediments and the pyroclastic debris flows. This allows deep seated water to bypass the groundwater barrier of altered volcanic ash fall material (clays) within the alluvial section and flow laterally within permeable near-surface units.

C. WELL SURVEY

A one-quarter mile radius well survey was conducted in order to assess the potential for impact to water supply and/or geothermal wells in the vicinity of the site. Information was reviewed from public records provided by the State of California, Department of Water Resources (DWR), City of Calistoga, Department of Public Works Department (Public Works), California Division of Mines and Geology

(CDMG), and United States Geological Survey (USGS). Extensive hydrologic and subsurface data has been acquired by the CDMG and USGS as the result of the extensive geothermal activity in the Calistoga region. Our investigation has identified over three dozen water supply and geothermal wells within the one-quarter mile radius, with two water supply wells within 500' of the site. The two nearby wells are screened at depths exceeding 100 feet BGS. Based on the well information provided, the primary water bearing zone used by water supply and geothermal purpose exists between 180 and 250 feet BGS. Taylor and others, 1981, have established that vertical continuity between water bearing zone is prohibited by the presence of smectite bearing units. These units acting as aquitards ranging from several inches to tens of feet, separate water bearing zones capable of producing 10-15 gpm. No other domestic water supply wells were found to be located within 500 feet of the subject site.

IV. PREVIOUS SITE ACTIVITIES

A. SUMMARY OF TANK REMOVAL ACTIVITIES (Jotco Petroleum)

On 10 January 1990, Jotco Petroleum Equipment Company of Santa Rosa excavated and supervised the removal of five underground storage tanks from three tank excavations at the subject site. Ms. Anne Williams, representing Napa County Department of Environmental Management was on site during the tank removal and initial soil sampling activities on 10 January 1990. Soil/groundwater sampling and laboratory analysis was performed by NET Pacific, Inc., of Santa Rosa. On 30 and 31 January 1990, additional over-excavation of contaminated soils and soil sampling was overseen by Reay Environmental Services (RES) at two of the former tank excavations (Excavations A and B). Over-excavation activities were initiated to remove where feasible, all gasoline and related hydrocarbon contaminated soils derived from an unauthorized release of petroleum products. In addition, petroleum contaminated soils were mitigated adjacent to the former tank location to reduce the potential impact by petroleum hydrocarbons to near-surface groundwater. Please note that the soil detection limits for gasoline/jet fuel range hydrocarbons and BTX&E were at 10 ppm and 25 ppb, respectively. Current detection limits are 1 ppm and 2.5 ppb, or a factor of 10 less, for gasoline/jet fuel range hydrocarbons and BTX&E, respectively. Gasoline range hydrocarbons were not quantified during laboratory analysis.

B. TANK REMOVAL SOIL SAMPLING/OVER-EXCAVATION ACTIVITIES (Former Excavation "A")

Excavation "A" has been previously referred to as Site #1 or 1712 Lincoln Avenue in RES's reports for the subject site. Former Excavation "A" is currently located underneath the northeastern portion of the Palisades Market and previously contained two underground petroleum storage tank (8,000 and 2,000 gallon). The petroleum storage tanks were part of a former service station previously located where the market currently exists. Upon removal, several holes were observed in both tanks. Two soil samples (109-3S and 109-2N) were collected in native soil at fill end of each former tank location at 8' below ground surface (BGS). Laboratory analysis of native soil along the northeastern sidewall (109-2N) indicated jet fuel range hydrocarbons at 19 ppm and total BTX&E concentration of 4 ppm. Sample 109-3S located in the southwestern corner of the excavation indicated TPH as jet fuel at 1800 ppm and total BTX&E concentration of 118 ppm. Laboratory results have been summarized in **Table 1 - Appendix A.**

On 30 and 31 January 1990, former Excavation "A" was over-excavated to a depth of 10' BGS where a concrete tank tie-down pad was encountered. Over-excavation activities removed the former tank

backfill material and additional native sidewall material, reaching the final excavation limits as noted in **Plate 1**. Over-excavation activities were halted by Mr. Jim Dvorak of the Calistoga Building Department due to the unstable nature of the sandy material underlying the market. RES reported that during over-excavation activities the sandy fill material was sluffing into the open excavation. Two additional soil samples (0169 and 0170) were collected by RES from the excavation bottom before backfilling. Laboratory analysis indicated elevated concentration of gasoline range hydrocarbons (34 to 57 ppm) and BTX&E constituents (2.2 to 3.2 ppm) at 10 to 12' BGS. Laboratory results have been summarized in **Table 1 - Appendix A**.

An additional small over-excavation was completed down to 15 feet approximately 25 feet to the southeast from former Excavation "A". One soil sample was collected and analysis from the final depth. Laboratory analysis reported non-detectable concentrations of jet fuel range hydrocarbons and BTX&E constituents except for Toluene at 180 ppb.

C. TANK REMOVAL SOIL SAMPLING/OVER-EXCAVATION ACTIVITIES (Former Excavation "B")

Former Excavation "B" has been previously referred to as Site #2 or excavation "AB" in RES's reports for the subject site. Former Excavation "B" is located westerly from MW-2 and previously contained two 10,000 gallon underground petroleum storage tanks. The two 10,000 gallon petroleum storage tanks are suspected to be formally used for aviation fuel. Upon removal, several holes were observed in one of the tanks. Previous reports did not indicate which tank had the holes, but based on the initial soil analysis of 450 ppm of jet fuel range hydrocarbons in sample B4 (southern tank), we conclude that the southern tank had the reported holes. Four soil samples (B1, A2, A3, B4) were collected in native soil at both ends of each former tank location at between 8.5 to 10' BGS. Laboratory analysis of samples A2 and A3 underneath the northern tank (Tank A) indicated non-detectable concentrations for jet fuel range hydrocarbons and BTX&E constituents except for Toluene at 65 ppb in both samples. Laboratory analysis of sample B1 located underneath the southern tank (Tank B) indicated non-detectable concentrations for jet fuel range hydrocarbons and benzene on the eastern side at 10 feet BGS and slightly elevated levels of toluene (86 ppb), xylene (68 ppb), and ethylbenzene (30 ppb). Sample B4 located on the western side at 8.5' indicated elevated levels of jet fuel range hydrocarbons and BTX&E constituents. Jet fuel range hydrocarbons and total BTX&E concentrations were reported at 450 ppm and 5.88 ppm, respectively. Laboratory results have been summarized in **Table 2 - Appendix A**.

On 30 and 31 January 1990, former Excavation "B" was over-excavated to a depth of 15' BGS where standing water was encountered. A concrete tank tie-down pad was encountered and removed at 12 feet BGS. Over-excavation of petroleum contaminated soil continued along the sidewalls until field evidence of non-detectable concentration of soils contamination was reached. Before backfilling, five soil samples (0171, 0172, 0174, 0175, and 1077) were collected by RES at the groundwater/soil interface along the four sidewalls and excavation bottom. One groundwater sample (0173) was collected from standing groundwater in the excavation. Laboratory analysis indicated non-detectable concentration of jet fuel range hydrocarbons and BTX&E in samples 0172 (NE Sidewall) and 0174 (Excavation Bottom). Samples 0175 (South Sidewall) and 0177 (Southeastern Sidewall) were non-detectable for jet fuel range hydrocarbons and BTX&E constituents except for Toluene at 180 ppb. Sample 0171 was detectable for jet fuel range hydrocarbons and all BTX&E constituents at 200 and 6.46 ppm, respectively. The elevated petroleum concentrations detected in sample 0171 was roughly at the same location as sample B4 indicated elevated concentrations of jet fuel range hydrocarbons

and BTX&E constituents. Laboratory results have been summarized in **Table 2 - Appendix A.**

D. TANK REMOVAL SOIL SAMPLING (Former Excavation "C")

Former Excavation "C" has been previously referred to as Site #3 or excavation "C" in RES's reports for the subject site. Former Excavation "C" is located between MW-1 and the airport hanger and previously contained one 10,000 gallon underground petroleum storage tank. The 10,000 gallon tank is suspected to be formally used for aviation fuel. Upon removal, no holes were observed in the tank. Two soil and one groundwater samples were collected at both tank ends in native soil at between 8.5 to 11 feet BGS. Laboratory analysis of east and west sidewall soil samples at 8 and 11 feet, respectively, were non-detectable for all petroleum constituents except toluene at 63 ppb. Laboratory analysis of the groundwater sample indicated non-detectable concentrations for TPH as jet fuel range hydrocarbons and xylene and slightly elevated levels of toluene (1.7 ppb), benzene (.51 ppb), and ethylbenzene (5.7 ppb). Laboratory results have been summarized in **Table 3 - Appendix A.** Former Excavation "C" was not over-excavated due to the relatively clean soil adjacent to the former tank.

Four soil samples representing the original excavated soil from excavation "C" were collected and composited into one sample for laboratory analysis. Laboratory analysis indicated samples non-detectable results for jet fuel range hydrocarbons and BTX&E constituents except for Toluene at 65 ppb and xylene at 46 ppb.

Approximately 400-600 cubic yards of soil was excavated from excavations "A" and "B" and is currently stockpiled on site. Twelve soil samples were collected and composited into six samples (1A/1B to 6A/6B comp.) for laboratory analysis. Laboratory analysis indicated samples 1A/1B and 6A/6B were non-detectable for all constituents analyzed. Laboratory analysis indicated gasoline range hydrocarbons in samples 2A/2B, 3A/3B, and 4A/4B ranging from 67 to 180 ppm. Total BTX&E constituents concentration ranged from 2.51 to 4.8 ppm. Sample 5A/5B was non-detectable for gasoline range hydrocarbons but was detectable for jet fuel range hydrocarbons and BTX&E at 67 and 2.1 ppm, respectively.

E. PHASE II INVESTIGATIONS (Reay Environmental Services/Great Pacific Associates)

On 1 February 1990, the Napa County Department of Environmental Management contacted the responsible party via mail concerning the unauthorized fuel release from the underground storage tanks. Based on laboratory results from the initial tank removal and the potential for groundwater contamination, Napa County and the Regional Board requested further investigation to determine, if any, the lateral and vertical extent of groundwater contamination. At least one monitoring well was to be placed within ten feet in the assumed downgradient direction from each former tank excavation to evaluate soil/groundwater quality.

An initial geohydrologic investigation work plan was submitted by Reay Environmental Services (RES), of Alameda on 7 May 1990 and approved by Napa County on 7 June 1990. On 11 and 12 November 1990, four soil boring were drilled and converted to 4-inch monitoring wells by Kvilhaug Drilling and Pump Company of Concord, under the direction of Great Pacific Associates (GPA). Initial well development was performed on 19 November 1990 and initial groundwater samples were collected on 20 November 1991. The monitoring wells were constructed to a final depth of 21.0 to 23.0 feet BGS. In all monitoring wells, except for MW-4, three soil samples were submitted for further laboratory analysis. Measurement of groundwater levels upon completion of monitoring well installation indicated

at all submitted soil samples were above first encountered groundwater. Laboratory results of all soil samples submitted were reported as non-detectable for gasoline/jet range hydrocarbons and BTX&E constituents. Laboratory results have been summarized in **Table 4 - Appendix A**. Laboratory analysis of the initial groundwater sample indicated non-detectable concentrations for all constituents in all monitoring wells except for MW-3. In MW-3, ethylbenzene was non-detectable while slightly elevated levels of jet fuel range hydrocarbons (1.0 ppm), toluene (0.7 ppb), benzene (0.8 ppb), and xylene (1.3 ppb) were detected. Initial groundwater sampling laboratory results have been summarized in **Table 4 - Appendix A**. Groundwater flow direction was not determined during the initial groundwater sampling event. Groundwater flow direction and gradient calculated for 12/15/90 indicates an average groundwater flow direction of N 80 E and average groundwater gradient of .11 ft./100 ft.

One subsequent groundwater sampling event was performed by Great Pacific Associates on 14 March 1991. Results of the March 1991 groundwater sampling event was reported in GPA's report dated 3 April 1991. Laboratory analysis indicated detectable levels of jet fuel range hydrocarbons and one or more BTX&E constituents in all monitoring wells. Benzene concentration in MW-1 and MW-3 exceeded the state's Title 22 maximum concentration levels (MCL) of 1.0 ppb. The average calculated groundwater flow direction was S 29 W, or towards the airport hanger. MW-1, MW-2, and MW-3 placed in the assumed downgradient direction from the former gasoline tank excavations, were not in the verified downgradient direction from the contamination source(s) during the March 1991 groundwater sampling event.

F. ADDITIONAL PHASE II INVESTIGATIONS (GPI Environmental Management)

On 16 October 1992, Napa County Department of Environmental Management requested further investigation to determine the lateral and vertical extent of groundwater contamination. Napa County requested that the existing monitoring wells to undergo quarterly sampling/monitoring and a workplan for additional investigative actions to be completed. The responsible party, Mr. John Merchant retained GPI Environmental Management (GPI) to proceed with groundwater quarterly monitoring and preparation of a workplan for additional site investigative activities. A quarterly groundwater sampling program was initiated in November 1992 for all on-site monitoring wells. Since November 1992, on-site monitoring wells have been sampled seven times inclusive with the October 1994 groundwater sampling event. Initial groundwater sampling and subsequent quarterly monitoring laboratory results have been summarized in **Table 6 - Appendix A**.

LABORATORY RESULTS

In MW-1, the dissolved phase gasoline/jet fuel range hydrocarbons concentrations have remained non-detectable, except for 0.31 ppm of an unknown hydrocarbon detected in the 1st quarter sampling event and 1.2 and 0.15 ppm jet fuel range hydrocarbon detected in the March 1991 and 7th quarter groundwater sampling events, respectively. Benzene remains as the only predominate BTX&E constituent detected since the initial groundwater sampling event. All BTX&E constituents were detected ranging from 0.93 to 140 ppb in the March 1991 sampling event. Xylene and ethylbenzene were detected in the 7th quarter sampling event at 2.9 and 0.9 ppb, respectively. Groundwater benzene concentrations have ranged from ND to 170 ppb, with a significant decrease from 170 to 1.3 ppb between the 1st and 5th quarter groundwater sampling events. Laboratory results for the last quarter sampling event (October 1994) indicated a slightly elevated benzene concentrations of 2.1 ppb. This represents a decrease from 6.1 ppb recorded in the 6th quarter sampling event (July 1994).

In MW-3, the dissolved phase gasoline/jet fuel range hydrocarbons concentrations have remained non-detectable during the six quarters of groundwater sampling, except for 0.35 and 0.10 ppm of an unknown hydrocarbon and 0.26 ppm as gasoline range hydrocarbons detected in the 1st, 3rd and 2nd quarter sampling events, respectively. In the 1st and 3rd quarter groundwater sampling events, the laboratory reported the detectable concentrations of gasoline range hydrocarbons as an unidentifiable hydrocarbon compound within the gasoline range (verbal comm., NET Pacific). BTX&E constituents have remained non-detectable since the 2nd quarter sampling event. In the 1st quarter sampling event, benzene and ethylbenzene were detected at 88 and 15 ppb, respectively. In the 2nd quarter sampling event, benzene concentrations decreased from 88 to 5.6 ppb, while ethylbenzene remained relatively constant at 16 ppb.

Previous to the six quarters of groundwater sampling, jet fuel range hydrocarbons were identified at 0.67 and 1.0 ppm for the 14 March 1991 and initial groundwater sampling event, respectively. Total BTX&E constituent concentrations decreased from .46 to .105 ppm between the March 1991 and 1st quarter groundwater sampling event.

Laboratory analysis of groundwater samples from MW-2 and MW-4 continue to confirm non-detectable concentrations of gasoline/jet fuel range hydrocarbons as obtained in the initial groundwater sampling events, except for a unidentifiable hydrocarbon peak (0.23 ppm) in MW-2 and 0.08 ppm in MW-4 during the 2nd and 3rd quarter sampling events. Previous to the quarterly monitoring program, jet fuel range hydrocarbons (0.61 ppm), Toluene (4.4 ppb) and xylene (0.73 ppb) were detected in MW-2 during the March 1991 sampling event. MW-4 previously indicated 0.06 ppm jet fuel range hydrocarbons and xylene at 0.59 ppb.

G. ADDITIONAL OVER-EXCAVATION ACTIVITIES - 7/94 (GPI Environmental Management)

The former tank excavation "B" was over-excavated on 27 July 1994 by Blakely Construction, Inc. of Calistoga under the supervision of GPI. Approximately 120-140 cubic yards of native soil were removed from the aerial extent as shown on **Plate 2** and down to a final depth of 17' BGS. The final excavation depth was based on the occurrence of near-surface groundwater at 17' BGS and non-detectable soil/water sample laboratory results at the final excavation depth. The final excavation depth adjacent to the former excavation was limited to 8.0-9.0' BGS due to the unconsolidated gravelly backfill utilized in the former tank excavation. At the final excavation depth (17' BGS), field observations indicated no soil and/or groundwater contamination. All subsequent bottom and sidewall confirmation soil sample collected indicated non-detectable concentration for all petroleum and aromatic hydrocarbons.

The excavation was backfilled with the previously excavated native soil. Seven (7) discrete soil samples representing approximately 120-140 cubic yards of stockpiled over-excavated soil were submitted to and analyzed on-site by Mobile Chem Labs of Martinez. All stockpile soil samples were non-detectable for petroleum and aromatic hydrocarbons.

For each sidewall, a minimum of two soil samples were collected at the 8 and 16 foot level for further laboratory analysis. The uppermost soil samples represented a semi-permeable to impermeable, brownish silty clay and the bottom elevation of the former underground tanks. The lowermost soil sample represented the relatively permeable grayish-green, volcanic sandy silt/silty sand. One excavation bottom sample (92383-OE-1) was collected at 17.0' BGS just above the soil/groundwater interface. Sidewall soil sample locations have been denoted shown in **Plate 2**. A total of nine excavation soil samples were collected and analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline and jet

contamination is localized and is not currently contributing to additional groundwater contamination. This is supported by the following field and laboratory evidence:

A) The downward migration of petroleum and aromatic hydrocarbons to the first encountered near-surface groundwater zone at 16.0-17.0' BGS would be severely restrict by the relatively dense silty clay which lies between the water bearing zone and the former tank excavation;

B) The first occurrence of near-surface groundwater has been documented to be restricted and confined to a gravelly sand unit at 16.0-17.0' BGS. Thus, near-surface groundwater would not be contact with residual soil contamination at higher elevation within the soil profile;

C) Non-detectable petroleum and aromatic hydrocarbon laboratory results for soil samples collected during installation of MW-1; and

D) Subsequent groundwater laboratory analyses have documented declining concentrations of dissolved phase benzene groundwater contamination in the verified downgradient direction from the former tank location. This would suggest that either the source of additional groundwater contamination is no longer a threat to near-surface groundwater and/or natural degradation processes have reduced the concentrations of soil/groundwater contamination to existing levels.

3) Based on initial over-excavation laboratory results of sidewall soil samples, elevated concentrations of petroleum and aromatic hydrocarbons remain underneath the Palisades Market (former tank excavation "A"). Remedial activities such as additional over-excavation would not be practical or cost-effective without demolition of the existing structure. Non-detectable groundwater laboratory results for four quarters in MW-1 suggest that the potential for the remaining contaminated soils to continue to impact near-surface groundwater is very low. It is concluded that the remaining soil contamination is limited in extent and does not pose a threat to near-surface groundwater. This is supported by similar lines of evidence as present for former excavation "C", except that dissolved phase benzene has not been detected in MW-3 since the second quarter sampling event.

VI. RECOMMENDATIONS FOR CASE CLOSURE

GPI Environmental Management submits the following discussion to support case closure for the subject site. The responsible party requests of the Napa County Department of Environmental Management to grant case closure for the site. Based on previous and on-going site investigation/remedial actions, we do not anticipate the need for further subsurface characterization and/or remedial actions for the subject site. Site activities performed by RES, GPA and GPI have demonstrated that the potential for further impact to near-surface groundwater at each of the former tank excavation locations is negligible. Although localized soil contamination may exist at the site, the potential for impacting beneficial uses of surface and/or groundwater is very low. We provide the following discussion to support this position.

EVALUATION OF SOURCE CONTROL/REMEDIAL OPTIONS

Site activities have mitigated all potential sources of petroleum hydrocarbons within the former tank excavation backfill which were either at or below the high seasonal groundwater level. Potential preferential hydrocarbon migration pathways (horizontal or vertical) such as permeable sandy/gravelly soil layers were not observed to intersect the slightly contaminated native soil.

1) Adequate source removal has been performed in relation to the magnitude of subsurface soil contamination at all underground storage tank sites. Source removal has been undertaken to limit and/or prevent future migration of pollutants to near-surface groundwater. Recent over-excavation activity (July 1994) has demonstrated that either degradation processes has removed the previously identified soil contamination left in place during initial over-excavation activities in 1990 and/or that the initial magnitude of subsurface contamination was limited in extent. This is supported by continued non-detectable groundwater laboratory results for petroleum and aromatic hydrocarbons in all monitoring wells except for MW-1.

2) Field observations and confirmatory laboratory analyses during over-excavation activities on 27 July 1994 indicate that the potential for continued impact to near-surface groundwater from petroleum and aromatic hydrocarbons surrounding former excavation "B" (MW-2) is negligible, thus no further investigative or remedial work would be necessary for this location.

3) It is our understanding from the December 1993 meeting that the existing soil contamination reported during initial over-excavation activities in 1990 underneath the Palisade Market will not be required to be remediated due to potential impact to the existing structure. Quarterly groundwater sampling results have demonstrated that the potential for continued impact to near-surface groundwater in the vicinity of MW-3 and former tank excavation "A" is negligible. Initial groundwater contamination of petroleum and aromatic hydrocarbons reported in the initial and March 1991 groundwater sampling have declined to and remained non-detectable four quarters. MW-3 has been documented to be in the verified downgradient direction of the former tank location during the two year quarterly groundwater monitoring program.

4) The installation and operation of a groundwater treatment system at this site would be costly in relation to the impacts of the remaining, if any, soil contamination on near-surface groundwater. Additional groundwater clean-up is not cost-effective due to the limited extent and concentration of the groundwater contamination plume adjacent to MW-1. Natural biodegradation is strongly suspected to be a component in the the observed decline in dissolved phase benzene concentration in MW-1 and MW-3. Based on trends of groundwater contamination previous groundwater laboratory analyses, the concentration of dissolved phase benzene in MW-1 would likely continue to decline in the future.

5) Based on the Regional Board's Draft Ground Water Basin Plan Amendments, it has been determined that dissolved phase plumes in shallow water bearing zones, with a low probability of drinking water use, are not generally cost effective due to:

   A) limited cost-effectiveness of pump and treat technologies to achieve clean-up levels;

   B) limited health risks in relation to the sites' limited beneficial or potential use of near-surface groundwater and the magnitude of existing near-surface groundwater contamination; and

   C) limited benefits to potential beneficial uses vs. the cost of installation and monitoring a pump and treat system for a minor reduction in groundwater contamination concentrations to water quality standards.

POTENTIAL IMPACT ON CURRENT/FUTURE BENEFICIAL WATER SOURCES

The potential beneficial surface or near-surface groundwater sources which may be impacted by the remaining soil/groundwater contamination at this location include:

1) Overland flow of surface waters into adjacent properties and waterways utilized for limited domestic consumption and irrigation;

A) Surface seeps or springs feed by near-surface groundwater bearing zone(s) originating from the subject site and flowing off-site are not present. Thus, the movement of potentially contaminated groundwater to the surface is not likely at this site.

2) Extraction of near-surface groundwater from shallow domestic wells adjacent to the subject property. In terms of potential impact to nearby off-site domestic wells, previous and on-going site investigations have demonstrated the following:

A) Stable or declining trends in plume chemical concentrations under various hydrologic conditions;

B) Groundwater monitoring has demonstrated that no significant petroleum and/or aromatic hydrocarbon migration has occurred due to hydrogeologic conditions at the site;

C) Subsurface investigations have demonstrated that the first near-surface groundwater bearing is confined above and below by relatively impervious silty clay aquitards, thus potential vertical conduits do not exist within the groundwater contamination plume nor in the area between the monitoring wells and the former tank excavations;

D) There are no future plans and limited of actual use of the affected groundwater for drinking or irrigation purposes due to poor water quality

E) Based on the limited horizontal extent of the contamination plume and the physical distance to off-site wells, the probability of impacting these potential water source(s) is close to nil.

FATE/RATE OF MOVEMENT OF EXISTING SOIL/GROUNDWATER CONTAMINATION

1) Although a limited extent of petroleum hydrocarbon contaminated soils may exist at former tank excavations "A" (MW-3) and "C" (MW-1), the potential impact to near-surface groundwater would be restricted by the relatively dense nature of the silty clay/clay soil lithologies underlying the former tank locations. The leaching potential of petroleum contaminated soils remaining in place would be very low due to low soil permeabilities and lack of near-surface groundwater movement in the upper soil profile. There is no existing field evidence indicating that seasonal near-surface groundwater flow is a component of lateral or vertical hydrocarbon migration and/or determines the size or shape of the previous or current soil hydrocarbon plume(s). Thus, previous and/or future hydrocarbon migration would be primarily through diffusion within the near-surface soil profile.

2) Additional subsurface investigation and/or remedial activities adjacent to former excavation "C" (MW-1) is not warranted at this time. This is based on the reduction and stabilization of benzene groundwater contamination documented during the previous seven groundwater sampling events. Stabilized dissolved-phase benzene groundwater contamination suggests the following:

A) If additional contaminated soils exists adjacent to the former tank excavation, these soils are not in contact with the first near-surface groundwater bearing zone. Previous subsurface investigations clearly demonstrated that the site is underlain by sixteen feet of low-yielding, fine grained sediments that are not in hydraulic connection with underlying or adjacent aquifers.;

B) Based on previous soil and current groundwater analytical results, the lack of petroleum hydrocarbons and presence of aromatic hydrocarbons would suggest predominately vapor-phase soil contamination. Additional mitigation activities associated with this location would not cost effective relative to the quantity of soil contamination removed.

C) Soil contamination concentrations would likely naturally decrease over time due to the elevated soil/groundwater temperatures which are characteristic of the site.

3) The concentration of benzene in near-surface groundwater adjacent to MW-1 have historically exceeded the Maximum Contaminant Levels (MCL). It is our opinion that these concentration would be acceptable as the initial hydrocarbon source has been removed, thus reducing the potential for continued groundwater contamination.

VII. LIMITATIONS

Client recognizes that environmental, geologic, and geotechnical conditions can vary from those encountered at the times and locations where data is obtained by GPI, and that the limitations on available data results in some level of uncertainty with respect to the interpretation of these conditions, despite the use of due professional care.

Clients also recognizes that the state of practice, particularly with respect to hazardous materials conditions, is changing and evolving. GPI has performed its services in reasonable accordance with the standards of care and skill exercised by professionals performing comparable services under comparable circumstances at the time GPI's professional services are performed. Client recognizes that those standards may subsequently change because of modifications in the state of practice and acknowledges that GPI shall not be required to foresee or perform in accordance with such new standards.

This investigation, while it can not eliminate all risks, is intended to minimize risks consistent with the nature of the study which the client authorized, and current accepted techniques and procedures. It assumes that the client has fully disclosed to GPI all pertinent information regarding the subject property known to or available to the client with reasonable investigation.

This investigation was performed in accordance with present geological and engineering standards applicable to this project. In our opinion, the scope of services adequately supports the conclusions and recommendations present. The recommendations of this report are based upon the assumption that the subsurface conditions do not deviate from those interpreted from the surface and subsurface data of this investigation. The recommendations of this report are intended for the site described only and must not be extended to adjacent areas.

APPENDIX A

TABLES 1 TO 6

TABLE 1

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Initial Tank Removal/Over-Excavation Soil Sampling Laboratory Results - Excavation A (1/10/90 and 1/30-31/90)

Sample Number	Depth (BGS)	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
1/10/90 *							
109-3S	E Corner-8'	NR	19	930	290	2000	750
109-2N	SW Corner-8'	NR	1800	5000	34000	56000	23000
1/30-31/90 [1]							
0169	W Corner-10'	57	ND	200	560	1500	300
0170	E Corner-12'	34	ND	60	420	2100	630
MDL		**10 ppm**	**10 ppm**	**25 ppb**	**25 ppb**	**25 ppb**	**25 ppb**

TABLE 2

Summary of Initial Tank Removal/Over-Excavation Soil Sampling Laboratory Results - Excavation B (1/10/90 and 1/30-31/90)

Sample Number	Depth (BGS)	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
TANK A*							
A-2	E Side - 9.5'	NR	ND	ND	65	ND	ND
A-3	W Side - 8.5'	NR	ND	ND	65	ND	ND
TANK B*							
B-1	E Side - 10'	NR	ND	ND	86	68	30
B-4	W Side - 8.5'	NR	450	2100	2000	1000	780
OVER-EXCAVATION - 1/30-31/90[1]							
0171	NW Wall	NR	200	3600	2100	460	300
0172	NE Wall	NR	ND	ND	ND	ND	ND
0174	Bottom	NR	ND	ND	ND	ND	ND
0175	South Wall	NR	ND	ND	180	ND	ND
0177	SE Wall	NR	ND	ND	180	ND	ND
MDL		**10 ppm**	**10 ppm**	**25 ppb**	**25 ppb**	**25 ppb**	**25 ppb**
EXCAVATION GROUNDWATER - 1/30-31/90 [1]							
0173		NR	.20	12	ND	ND	.85
MDL		**.05 ppm**	**.05 ppm**	**0.5 ppb**	**0.5 ppb**	**0.5 ppb**	**0.5 ppb**

ND = NOT DETECTED ----- = NOT PERFORMED **NR** = NOT REPORTED
1 = Soil/Groundwater samples collected by Reay Environmental Services on 1/30-31/90
***** = Soil/Groundwater Samples collected by NET Pacific, Inc on 1/10/90
TPH(G) = Total Petroleum Hydrocarbons as Gasoline (EPA Method 8015)
TPH(JF) = Total Petroleum Hydrocarbons as Jet Fuel (EPA Method 8015)

TABLE 3

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Initial Tank Removal/Over-Excavation Soil Sampling Laboratory Results -
Excavation C (1/10/90 and 1/30-31/90)

Sample Number	Depth (BGS)	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
	E Wall - 8'	NR	ND	ND	63	ND	ND
	W Wall - 11'	NR	ND	ND	65	ND	ND
MDL		10 ppm	10 ppm	25 ppb	25 ppb	25 ppb	25 ppb
EXCAVATION GROUNDWATER							
		NR	ND	.51	1.7	ND	5.7
MDL		.05 ppm	.05 ppm	0.5 ppb	0.5 ppb	0.5 ppb	0.5 ppb

ND = NOT DETECTED ----- = NOT PERFORMED **NR** = NOT REPORTED
1 = Soil/Groundwater samples collected by Reay Environmental Services on 1/30-31/90
***** = Soil/Groundwater Samples collected by NET Pacific, Inc on 1/10/90
TPH(G) = Total Petroleum Hydrocarbons as Gasoline (EPA Method 8015)
TPH(JF) = Total Petroleum Hydrocarbons as Jet Fuel (EPA Method 8015)

TABLE 4

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Monitoring Well Installation and Initial Groundwater Sampling Laboratory Results
(11/12-13/90) (11/20/90)

Sample Number	Depth (BGS)	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
MW -1							
MW-1 @ 5'	3.5-5.0'	ND	ND	ND	ND	ND	ND
MW-1 @ 10'	8.5-10.0'	ND	ND	ND	ND	ND	ND
MW-1 @ 15'	13.5-15.0'	ND	ND	ND	ND	ND	ND
MW-2							
MW-2 @ 5'	3.5-5.0'	ND	ND	ND	ND	ND	ND
MW-2 @ 10'	8.5-10.0'	ND	ND	ND	ND	ND	ND
MW-2 @ 15'	13.5-15.0'	ND	ND	ND	ND	ND	ND
MW-3							
MW-3 @ 5'	3.5-5.0'	ND	ND	ND	ND	ND	ND
MW-3 @ 10'	8.5-10.0'	ND	ND	ND	ND	ND	ND
MW-3 @ 15'	13.5-15.0'	ND	ND	ND	ND	ND	ND
MW-4							
MW-4 @ 5'	3.5-5.0'	ND	ND	ND	ND	ND	ND
MW-4 @ 15'	13.5-150'	ND	ND	ND	ND	ND	ND
MDL		1 ppm	10 ppm	2.5 ppb	2.5 ppb	2.5 ppb	2.5 ppb
INITIAL GROUNDWATER SAMPLING -11/20/90							
MW-1		ND	ND	ND	ND	ND	ND
MW-2		ND	ND	ND	ND	ND	1.7
MW-3		ND	ND	0.8	0.7	1.3	ND
MW-4		ND	ND	ND	ND	ND	ND
MDL		.05 ppm	.05 ppm	0.5 ppb	0.5 ppb	0.5 ppb	0.5 ppb

ND = NOT DETECTED ----- = NOT PERFORMED **NR** = NOT REPORTED
Soil/Groundwater samples collected by Reay Environmental Services on 1/30-31/90
TPH(G) = Total Petroleum Hydrocarbons as Gasoline (EPA Method 8015)
TPH(JF) = Total Petroleum Hydrocarbons as Jet Fuel (EPA Method 8015)

TABLE 5

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Over-excavation and Stockpile Soil Sampling - 7/27/94 excav'n B

Sample Number	Depth (BGS)	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
Excavation Sidewall/Bottom Samples							
92383-OE1	17.0'	ND	ND	ND	ND	ND	ND
92383-OE2	15.0-16.0'	ND	ND	ND	ND	ND	ND
92383-OE3	8.0'	ND	ND	ND	ND	ND	ND
92383-OE4	15.0-16.0'	ND	ND	ND	ND	ND	ND
92383-OE5	8.0-9.0'	ND	ND	ND	ND	ND	ND
92383-OE6	15.0-16.0'	ND	ND	ND	ND	ND	ND
92383-OE7	8.0-9.0'	ND	ND	ND	ND	ND	ND
92383-OE8	9.0-10.0'	ND	ND	ND	ND	ND	ND
92383-OE8	14.0-16.0'	ND	ND	ND	ND	ND	ND
Stockpile Soil Samples							
92383-OE20		ND	ND	ND	ND	ND	ND
92383-OE21		ND	ND	ND	ND	ND	ND
92383-OE22		ND	ND	ND	ND	ND	ND
92383-OE23		ND	ND	ND	ND	ND	ND
92383-OE24		ND	ND	ND	ND	ND	ND
92383-OE25		ND	ND	ND	ND	ND	ND
92383-OE26		ND	ND	ND	ND	ND	ND
MDL		1 ppm	1 ppm	5 ppb	5 ppb	5 ppb	5 ppb

ND = NOT DETECTED ----- = NOT PERFORMED
ppm = Parts per Million **ppb** = Parts per Billion
TPH(G) = Total Petroleum Hydrocarbons as Gasoline (EPA Method 5030/M8015)
TPH(JF) = Total Petroleum Hydrocarbons as Jet Fuel (EPA Method 5030/M8015)

TABLE 6

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Initial /Quarterly Groundwater Sampling Laboratory Results

Sampling Date	TPH(G) (ppm)	TPH(JF) (ppm)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)	Ethylbenzene (ppb)
			Monitoring Well #1			
11/20/90 *	ND	ND	ND	ND	ND	ND
3/14/91 [1]	ND	1.2	140	0.93	49	39
11/21/92	.31[2]	ND	170	ND	ND	ND
3/30/93	ND	ND	4.0	ND	ND	ND
6/30/93	ND	ND	15	ND	ND	ND
9/21/93	ND	ND	12	ND	ND	ND
3/18/94	ND	ND	1.3	ND	ND	2.1
7/27/94	ND	ND	6.1	ND	ND	ND
10/12/94	ND	0.15	2.1	ND	2.9	0.9
6/22/95	ND	ND	1.9	ND	ND	ND
			Monitoring Well #2			
11/20/90 *	ND	ND	ND	ND	ND	1.7
3/14/91 [1]	ND	0.61	ND	4.4	0.73	ND
11/21/92	ND	ND	ND	ND	ND	ND
3/30/93	0.23[2]	ND	ND	ND	ND	ND
6/30/93	ND	ND	ND	ND	ND	ND
9/21/93	ND	ND	ND	ND	ND	ND
3/18/94	ND	ND	ND	ND	ND	ND
7/27/94	ND	ND	ND	ND	ND	ND
			Monitoring Well #3			
11/20/90 *	ND	1.0	0.8	0.7	1.3	ND
3/14/91 [1]	ND	0.67	300	8.2	21	130
11/21/92	0.35[2]	ND	88	ND	2.0	15
3/30/93	0.26	ND	5.9	ND	ND	16
6/30/93	0.10[3]	ND	ND	ND	ND	ND
9/21/93	ND	ND	ND	ND	ND	ND
3/18/94	ND	ND	ND	ND	ND	ND
7/27/94	ND	ND	ND	ND	ND	ND
			Monitoring Well #4			
11/20/90 *	ND	ND	ND	ND	ND	ND
3/14/91 [1]	ND	0.06	ND	ND	0.59	ND
11/21/92	ND	ND	ND	ND	ND	ND
3/30/93	ND	ND	ND	ND	ND	ND
6/30/93	0.08[3]	ND	ND	ND	ND	ND
9/21/93	ND	ND	ND	ND	ND	ND
3/18/94	ND	ND	ND	ND	ND	ND
MDL	.05 ppm	.05 ppm	.5 ppb	.5 ppb	.5 ppb	.5 ppb

Laboratory notes on following page

TABLE 6 (Cont.)

Airport Properties - 1506/1546 Lincoln Avenue, Calistoga
Summary of Initial /Quarterly Groundwater Sampling Laboratory Results

ND = NOT DETECTED ----- = NOT PERFORMED
***** = Initial Groundwater Sampling performed by Great Pacific Associates
1 = Groundwater Sampling performed by Great Pacific Associates
2 = Not characteristic of gasoline, single peak chromatograph
3 = Not characteristic of gasoline, single peak chromatograph, verbal comm
TPH(G) = Total Petroleum Hydrocarbons as Gasoline (EPA Method 5030/M8015)
TPH(JF) = Total Petroleum Hydrocarbons as Jet Fuel (EPA Method 5030/M8015)

fuel utilizing EPA Method 5030/M8015) and BTX&E utilizing EPA Method 8020. All soil samples were collected and submitted immediately to Mobile Chem Labs, Inc. on-site on 27 July 1994. Laboratory results indicate non-detectable concentrations in all excavation soil samples for petroleum and aromatic hydrocarbons. Summary of over-excavation soil/groundwater laboratory analysis has been attached as **Table 5 - Appendix A**.

V. CONCLUSIONS

Based upon the previous field activities and soil/groundwater laboratory results, the following conclusions are proposed regarding the extent and magnitude of groundwater contamination at the subject site. In addition, conclusions regarding the potential impact of remaining petroleum hydrocarbon contaminated soils, if any, to near-surface groundwater are presented.

A. SITE GROUNDWATER CONDITIONS

Based on the field and laboratory results for the two year quarterly monitoring program, the following conclusions are presented concerning site specific groundwater conditions at the subject site:

1) MW-1, MW-2, and MW-3 placed in the assumed downgradient direction from each of the former excavation/contamination sources were confirmed to be in the verified downgradient direction during the two year groundwater monitoring program. MW-1, MW-2, and MW-3 lie approximately 125 degrees from north or S 55 E from the former tank locations. Since December 1992, the groundwater flow orientation has been within a 15 degree "window" eight out of twelve groundwater level measurement events and within a 45 degree "window" for the remainder four. The southwestern groundwater flow direction calculated for November 1992 and March 1991 (S 28 W) appears to be controlled primarily by anomalous higher groundwater level in MW-4 relative to the other monitoring wells. It also appears that the near-surface groundwater flow direction shifts northeasterly during higher static groundwater levels.

2) Groundwater sampling of the upper most groundwater bearing zone has documented declining concentrations of petroleum and aromatic hydrocarbons during the previous hydrologic year. This would suggest that the concentration of soil/groundwater contamination remaining adjacent to the former tank excavations has declined since monitoring well installation. It is suspected that natural degradation processes have been accelerated due to elevated natural water/soil temperatures (80-95° F) conditions adjacent to the former tank excavations.

3) The reduction in groundwater concentrations of petroleum and aromatic hydrocarbons observed in MW-1 and MW-3 since the March 1991 groundwater sampling event is suspected to be the result of one or more of the following processes.

   a) Elevated concentrations of aromatic hydrocarbons previously detected in the original tank excavations "B" and "A" soil samples may be attributed to localized "hot" spots consisting of vapor phase aromatic hydrocarbons within the overlying soil profile. Elevated water temperature encountered at the site would likely facilitate volatilization of dissolved phase aromatic hydrocarbons from the near-surface saturated zone into the overlying silty/sandy soil zone; and/or

   b) Elevated concentrations of petroleum and aromatic hydrocarbons detected in the March 1991 groundwater sampling event adjacent to former excavations "A" (MW-3) and "C" (MW-1) is suspected to be the result of mixing of contaminated soil with near-surface groundwater during the initial over-excavation activities.

4) Stabilization of dissolved phase benzene concentrations and non-detectable concentrations of toluene, xylene, ethylbenzene, TPH as gasoline and jet fuel in MW-1 (former tank excavation "C") suggests that further petroleum and aromatic hydrocarbon impact to groundwater is negligible at this location. Laboratory results also suggest that the near-surface groundwater plume is limited in aerial extent and does not have the potential for continued migration from the former tank location.

5) Non-detectable concentrations of petroleum and aromatic hydrocarbon in groundwater samples from MW-2 (adjacent to former excavation "B") since the March 1991 groundwater sampling event suggests that hydrocarbon contaminated soil are not present adjacent to former excavation "B". This is supported by non-detectable confirmation soil samples collected along the northeastern sidewall of former excavation "B" in July 1994 and samples collected during the initial over-excavation activities.

6) Non-detectable concentration for all petroleum and aromatic hydrocarbons in MW-3 since the 2nd quarter groundwater sampling event would suggest that natural degradation processes as previously discussed has removed further hydrocarbon impact to near-surface groundwater adjacent to former excavation "A" (MW-3).

7) Potential impact to adjacent properties is negligible due to the south easterly-easterly groundwater flow direction.

8) Near-surface groundwater at the subject site is suspected to occur at depths between 16 and 22' BGS. The occurrence of near-surface groundwater, if present, at higher elevations is suspected to occur as isolated, perched water bearing zones. Subsurface lithologic stratigraphy is consistent with alluvial fan depositional environments associated with river valleys. Water bearing zones within this type of depositional environment are stratigraphically controlled, with water-bearing sands and gravels interstratified with relatively impermeable silty clay and clays. Vertical continuity between water bearing zone typically occur at isolated locations structurally controlled by faulting. Vertical migration of groundwater within the first encountered groundwater bearing zone at 16-17' BGS, thus would be severely restricted. Field observations during over-excavation activities in July 1994 indicate no evidence of a significant semi-permeable to permeable water bearing zones within the upper 16 feet of soil at the locations investigated.

A. SITE SUBSURFACE SOIL CONDITIONS

1) The potential impact to near-surface groundwater from hydrocarbon contaminated soil adjacent to former tank excavation "B" (MW-2) has been demonstrated to be negligible. Laboratory results of soil samples collected during over-excavation activities on 27 July 1994 have documented that residual soil aromatic hydrocarbon contamination is not present along the northwestern side of former tank excavation "B" as previously suspected. Non-detectable results for petroleum and aromatic hydrocarbons in groundwater samples obtained from the upper most near-surface groundwater zone support the laboratory results obtained during over-excavation activities.

2) Laboratory results of soil samples collected during initial tank removal activities from former tank excavation "C" indicated non-detectable concentrations for all petroleum and aromatic hydrocarbons, except for toluene at 63 to 65 ppb. Although, initial tank removal soil sampling indicated relatively "clean" soils adjacent to the former tank, previous groundwater laboratory results suggested that residual soil contamination between the former tank excavation and MW-1 was impacting near-surface groundwater. Based on subsurface conditions documented adjacent to former tank excavation "B" (MW-2), it is suspected that the residual soil

LOP 345
RPT
RPP #17

Edd Clark & Associates, Inc.
Environmental Consultants

October 15, 1999
EC&A Job No.: 0358

John Merchant
2136 Pierce Street
San Francisco, CA 94115

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ENVIRONMENTAL MANAGEMENT

Preliminary Site Investigation Workplan - Former UST Site
Calistoga Glider Port
1546 Lincoln Avenue
Calistoga, California

Dear Mr. Merchant:

Edd Clark & Associates, Inc. (EC&A) is pleased to provide you with this Workplan for a preliminary site investigation at the Calistoga Gliderport, 1546 Lincoln Avenue (site) in Calistoga, California (Plate 1). In their letter dated September 8, 1999, the Napa County Department of Environmental Management (NCDEM) has requested a soil and groundwater investigation in the location of the former UST for aviation gasoline (avgas) because fuel hydrocarbons (FHC's) were detected in water collected from the former UST excavation. The purpose of the work described in the proposed Workplan is to assess whether FHCs have migrated from the former UST location into groundwater.

The proposed Workplan is intended to conform to NCDEM guidelines for the investigation of soil and groundwater where an unauthorized release of fuel hydrocarbons to the subsurface has occurred. EC&A will also prepare a Site Safety Plan (SSP), which is required by the NCDEM prior to proceeding with site work. At your request, the workplan and SSP will be submitted to Mr. Gerald Katz, who will review and forward them to the NCDEM.

SCOPE OF SERVICES

The proposed scope of work includes drilling at least one soil boring, collecting and analyzing soil and groundwater samples, performing a sensitive receptor survey, and preparing a report of the proposed investigation.

BACKGROUND

Site Description

The site is occupied by several buildings belonging to the Calistoga Gliderport, which is no longer in operation. The ground surface in the area of the former UST is soil and flat. The property is owned by John and Pat Merchant.

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
Fax (707) 792-9504
ECAssoc@aol.com

Previous Soil and Groundwater Investigations

As reported in the February 19, 1991 Initial Groundwater Investigation at Calistoga Gliderport and Palisades Produce Market report prepared by Great Pacific Associates (GPA), three USTs were removed from the site in January 1990. FHC's were detected in soil and grab water samples collected beneath the USTs, and holes were observed in one of the USTs. Four monitoring wells , MW-1 through MW-4, were installed at the site and on the adjacent property (Palisades Produce Market) which is also owned by the Merchants. The wells were installed to a depth of 22-23 ft bgs and were screened from 22- 23 ft bgs to 12 ft -13 ft bgs. Groundwater was initially encountered at about 16 feet (ft) below top of well casing in the monitoring wells.

The October 24, 1994 7th Quarter Groundwater Sampling/Monitoring Report prepared by GPI Environmental Management reported that the wells were sampled seven times from November 1990 to October 1994 and groundwater elevations were taken 15 times from December 1990 until October 12, 1994. The groundwater flow direction ranged from N89°E to S29°W. For 13 of the 15 water level events the flow direction was towards the east (Plate 2, Appendix B). GPA reported that the groundwater surface elevation did not appear to change by more than 0.2 ft over a lateral distance of 300 ft.

EC& A understands that the NCDEM has issued a Closure Letter for the site and adjacent Palisades Produce Market site.

UST Removal

On July 19, 1999, the Fuel Oil Polishing Company removed one 10,000-gallon steel underground storage tank (UST) for leaded aviation fuel from the Calistoga Gliderport under permits issued by the Napa County Department of Environmental Management (NCDEM) and the Bay Area Air Quality Management District (BAAQMD). Waste fuel and rinsate were hauled by Clearwater Environmental as a non-RCRA hazardous waste liquid to the Alviso Independent Oil facility in Alviso, California, for disposal. The UST, vent piping, and fuel pump were hauled by Ecology Control, Inc. (ECI) to their facility in Richmond, California, for disposal as scrap. Mr. John Kara from the NCDEM inspected the UST removal and directed the collection of soil and groundwater samples. Plate 2 shows the location of the former UST.

Sample Collection

Soil samples S1-E and S2-W were collected from the east and west floor, respectively, of the UST excavation at 12 ft below ground surface (bgs). Sample SP-1 was collected from the stockpiled soil.

At the request of Mr. John Merchant, the property owner, FOPCO collected samples S-1, S-2, S-3 and S-4 from an existing stockpile of soil previously generated from removal of other USTs for aviation fuel. The soil samples were composited by McCampbell Analytical, Inc. (MAI) in Pacheco, California, into a four-into-one composite sample (S-1-4).

Approximately 3 inches of what appeared to be perched water was present in the excavation in an area measuring about 2 ft wide by 12 ft long. Water sample EP-W was collected from the floor of the excavation at a depth of 12 ft bgs.

The soil and water samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg, aviation fuel) and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Methods 8015M/8020, gasoline oxygenates by EPA Method 8260, and total lead.

Soil samples S1-E and S2-W did not contain concentrations of TPHg, BTEX or gasoline oxygenates above their respective reporting limits. Concentrations of lead were detected in samples S1-E and S2-W at 8.2 milligrams per kilogram (mg/kg) and 4.7 mg/kg, respectively. Analysis of stockpile sample SP-1 reported concentrations of TPHg, toluene and total lead at 2.7 mg/kg, 0.10 mg/kg and 5.7 mg/kg, respectively.

Water sample EP-W contained concentrations of TPHg, toluene, ethylbenzene, methyl tert-butyl ether (MTBE) and total lead at 100 micrograms per liter (μg/l), 5.1 μg/l, 1.2 μg/l, 5.9 μg/l, and 0.058 mg/l, respectively.

Composite sample S-1-4, collected from the existing stockpile, contained concentrations of TPHg, BTEX and total lead at 1.9 mg/kg, 0.033 mg/kg, 0.056 mg/kg, 0.055 mg/kg, 0.17 mg/kg and 57 mg/kg, respectively.

Table 1 presents the soil and water sample analytical results.

PROPOSED INVESTIGATION

The NCDEM is requiring a soil and groundwater investigation at the site because fuel hydrocarbon (FHC)- contaminated water was detected in the UST excavation when the UST was removed. To assess whether FHCs have migrated from the former UST location into groundwater, EC&A will direct the advancement of one soil boring in the location presented on Plate 2. The boring location was selected based on groundwater flow direction data from previous site investigations. If obvious soil and/or groundwater contamination is encountered in the proposed boring, additional borings will be advanced at a greater distance from the former UST. The proposed Scope of Work will be performed in the following tasks.

Task 1 - Project Management/Regulatory Agency Notification
EC&A will notify the NCDEM at least 48 hours prior to field work. EC&A understands a drilling permit for this boring will not be required from NCDEM. is required

Task 2 - Soil Boring Installation and Sample Collection
EC&A will direct the advancement of at least one soil boring (B-1) within 10 ft east of the former UST in the previously established down-gradient groundwater flow direction from the former UST. The proposed boring location is shown on Plate 2.

The soil boring will be drilled with a truck-mounted drill rig using 4-inch solid-flight augers. Prior to drilling, underground utilities will either be located and marked by the client or a private locator service. In addition, Underground Service Alert will be called as required by law. The boring will be advanced to approximately 20 ft bgs. If groundwater is not encountered within 20 ft bgs, the boring will be advanced to 50 ft bgs or until auger refusal.

Drilling will be performed under the technical direction of an EC&A field scientist who will classify the soils encountered, maintain a continuous log of the lithology, and assist in obtaining soil samples. All field work will be performed under the supervision of a California Registered Geologist. EC&A will field screen the breathing zone and soil samples for organic vapors with a portable organic vapor analyzer.

Soil Sampling Procedures

Soil samples will be collected at a minimum of every 5 ft, at any change in lithology, any obviously contaminated soil, and at the soil/groundwater interface. Soil samples will be collected using a split-spoon sampler fitted with brass liners. When a boring is advanced to the selected sampling depth, the augers or push rods will be withdrawn and a sampler will be lowered into the bottom of the hole and driven approximately 18 inches into soil. Soil samples submitted for laboratory analysis will be capped, labeled, logged on a chain-of-custody form, and placed on ice for transport to a State-certified laboratory.

Grab Groundwater Sampling Procedures

Grab groundwater samples will be collected from the soil boring as soon as possible after drilling is complete. Groundwater samples will be collected from the borings by lowering a clean, disposable bailer either directly into the open borehole or through new, temporary, slotted well screen which has been placed in the boring. Groundwater samples submitted for laboratory analysis will be labeled, logged on a chain-of-custody form, and placed on ice for transport to a State-certified laboratory.

Decontamination and Disposal

In order to minimize the possibility of cross contamination, all downhole drilling and sampling equipment will be decontaminated prior to use. The augers will be steam cleaned before drilling commences. The soil and water sampling equipment will be washed in a low-phosphorous soap solution and double rinsed with tap water before samples are collected.

Rinsate from decontamination procedures will be contained in 55-gallon drums for later disposal. Drill cuttings from the boring will be added to the existing stockpiled soil generated from the July 1999 UST removal.

Soil Boring Abandonment

Following sample collection, the soil boring will either be filled with bentonite chips and hydrated in 1 ft lifts or with Quik Grout.

October 19, 1999
EC&A Job No.: 0358.00

Edd Clark & Associates, Inc.

Task 3 - Soil Boring Sample Analysis
All soil and grab groundwater samples will be analyzed by a State-certified laboratory for TPHavgas/BTEX/MTBE per EPA Test Method 8015m/8020 and lead. Grab groundwater samples will also be analyzed for MTBE and other gasoline oxygenates and lead scavengers by EPA Method 8260. EC&A anticipates that up to three soil samples and one grab groundwater sample will be collected from the soil boring and submitted for chemical analysis.

Task 4 - Sensitive Receptor Survey
A survey of sensitive receptors will be conducted door-to-door to look for domestic wells, surface water, wetlands, etc., within 2000 ft of the site. A search for municipal wells within one-half mile will also be performed. The results of the sensitive receptor survey will be included in the report of findings for the soil and groundwater investigation.

Task 5 - Report Preparation
Following receipt of soil and groundwater analytical results, EC&A will prepare a written report summarizing the work performed and presenting conclusions and recommendations regarding site conditions. If soil and groundwater contamination is not detected above NCDEM action levels, EC&A will recommend that the site be reviewed for closure.

SITE SAFETY PLAN

The attached Site Safety Plan (Appendix A) identifies the chemicals that may be encountered during the investigation, describes precautionary measures to be taken when in the presence of these chemicals, and contains a map to the nearest medical facility.

SCHEDULE

EC&A anticipates that work will commence within one month following the review and approval of this workplan by the SFBRWQCB.

Thank you for allowing EC&A to provide environmental services to you. Please call if you have any questions.

Very truly yours,

John Calomiris

John Calomiris
Technical Operations Manager

Cheri Page

Cheri Page, RG#5288
Senior Geologist

REGISTERED GEOLOGIST
CHERI Y. PAGE
No. 5288
STATE OF CALIFORNIA

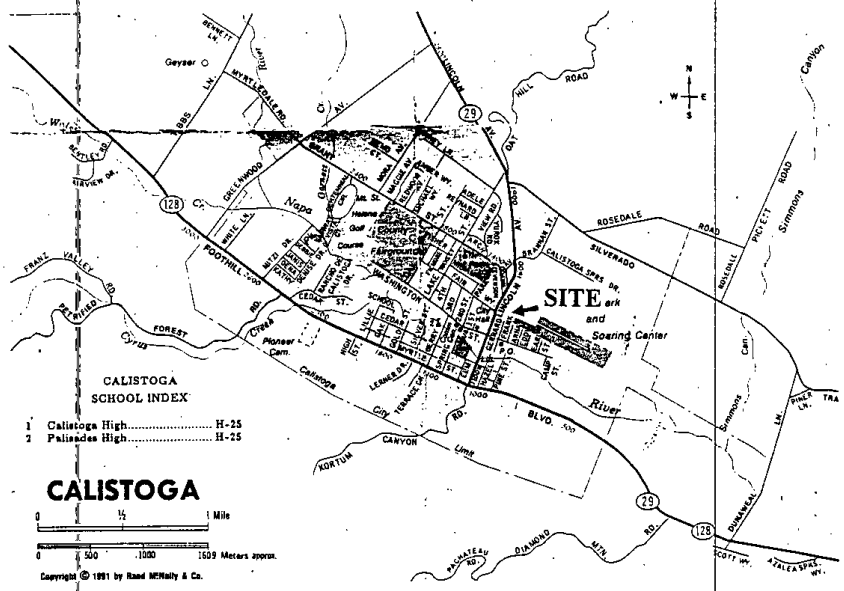
October 19, 1999
EC&A Job No.: 0358.00

Edd Clark & Associates, Inc.

Attachments: Plate 1- Site Location Map
Plate 2 -Site Map
Table 1- UST Sample Results
Appendix A - SSP
Appendix B - GPI Plate 2, Groundwater Flow Direction Map

cc: Ms. Jacqueline Bertaina, NCDEM
Mr. Gerald Katz

0358/ gliderport psi workplan



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Site Location Map
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

PLATE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
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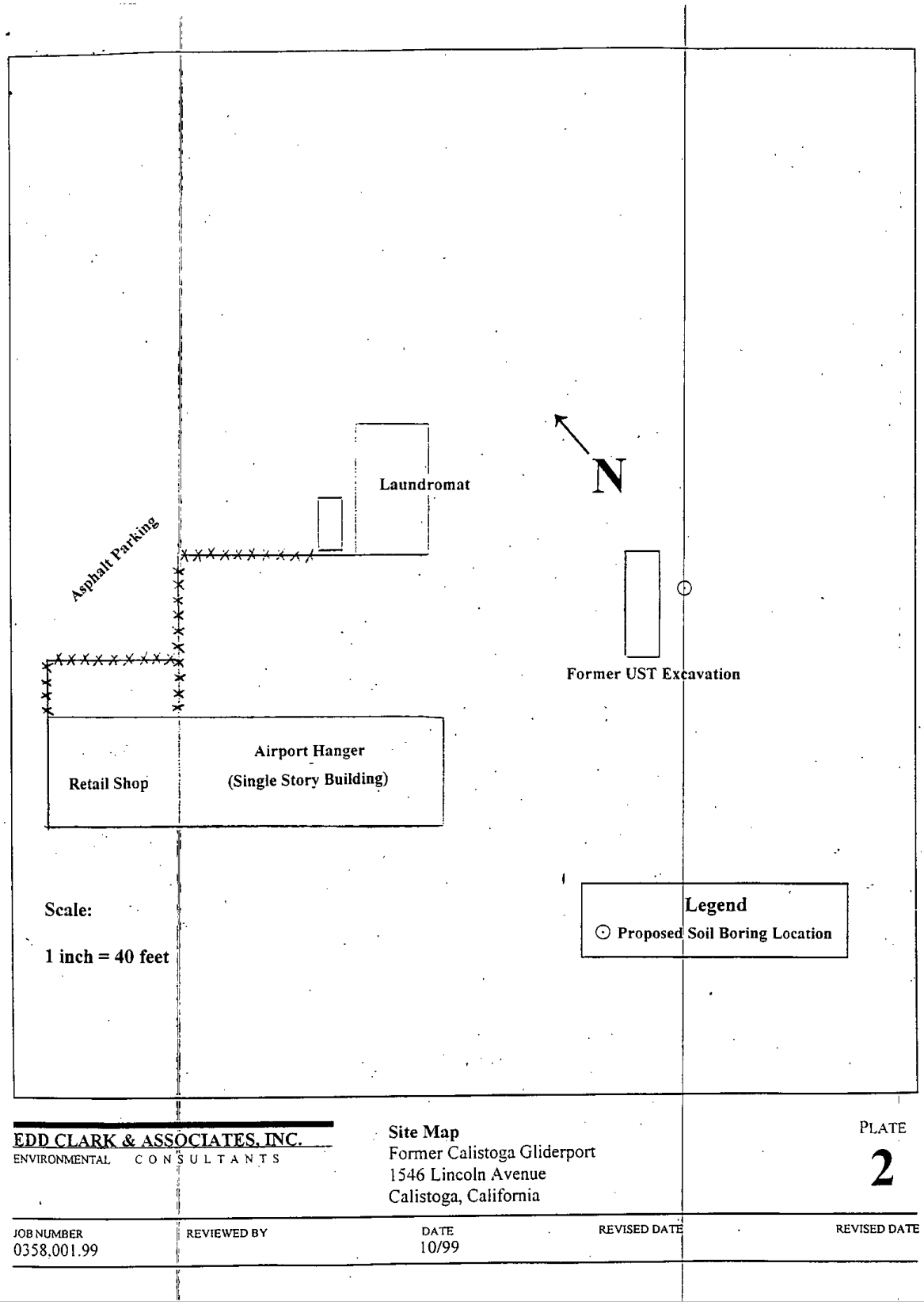

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Site Map
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

PLATE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
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Table 1. UST Removal Soil and Water Sample Analytical Results
1546 Lincoln Avenue, Calistoga, California

Sample ID	Date Sampled	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (EPA Method 8260)*	Total Lead
Soil Samples		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	μg/kg	mg/kg
S1-E	07/19/99	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<5.0	8.2
S2-W	07/19/99	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<5.0	4.7
SP-1	07/19/99	2.7 [e]	ND<0.005	0.10	ND<0.005	ND<0.005	ND<5.0	5.7
S-1-4	07/20/99	1.9 [a]	0.033	0.056	0.055	0.17	ND<5.0	57
Water Sample		μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	mg/l
EP-W	07/19/99	100 [e]	ND<0.5	5.1	1.2	ND<0.5	5.9	0.058

TPHg: Total petroleum hydrocarbons as gasoline (aviation fuel)
MTBE: Methyl tert-butyl ether
mg/kg: Milligrams per kilogram
μg/kg: Micrograms per kilogram
μg/l: Micrograms per liter
ND: Not detected above the respective reporting limit
a: Unmodified or weakly modified gasoline is significant
e: TPH pattern that does not appear to be derived from gasoline (aviation fuel?)
*: Other gasoline oxygenates were not reported above their respective reporting limits

0358.99\Table 1

APPENDIX A

Site Safety Plan

A. GENERAL INFORMATION

Site Location: 1546 Lincoln Avenue, Calistoga California

Plan Prepared By: John Calomiris Date: October 15, 1999
John Calomiris

Objective(s): Assess impact to groundwater quality in vicinity of former home heating oil UST

Background Review: Complete: X Preliminary:

Documentation/Summary: Overall Hazard: Serious: Moderate: Low: X
Unknown:

Unusual Features (power lines, terrain, utilities, etc.): over-head power lines, residence.

STATUS: Active: X Inactive: Unknown:

HISTORY: (Agency Action, Complaints, Injuries, etc.) One 10,000-gallon UST for aviation gas (TPHav) was removed in July 1999. TPHav was detected in water collected from the bottom of the UST excavation 100 μg/l.

B. SITE WASTE CHARACTERISTICS

Waste Type(s): Liquid: X(water) Solid: X(soil) Sludge: Gas:

Characteristic(s): Corrosive: **NA** Ignitable: **NA** Radioactive: **NA** Volatile: **X**
Toxic: **X** Reactive: **NA** Flammable: **X**

Facility Description: Former Gliderport

Principle Disposal Method (type and location): Rinsate from decontamination procedures will be contained in 55-gallon drums for later disposal. Drill cuttings from the borings will be placed on and covered with plastic sheeting or added to existing stockpile. Recommendations for treatment/disposal of waste materials will be submitted following evaluation of the analytical results of the soil and groundwater samples collected from the borings.

C. HAZARD EVALUATION

Chemical Name	Description	Threshold Limit Values (TLVs)		Persons Exposed and Potential Routes of Exposure	Symptoms of Acute Exposure	TLV Basis
		8-hr TLV	Short-term Exposure Limit (STEL)			
Benzene	Carcinogen, aromatic HC	0.5 ppm	2.5 ppm	Inhalation, dermal	Headache, dizziness	Cancer
Toluene	Aromatic HC	50 ppm	–	Inhalation, dermal	Headache, dizziness	Central nervous system (CNS), irritation
Ethylbenzene	Aromatic HC	100 ppm	125 ppm	Inhalation, dermal	Headache, dizziness	Irritation, CNS
Xylenes	Aromatic HC	100 ppm	150 ppm	Inhalation, dermal	Headache, dizziness	Irritation
Gasoline	Flammable liquid	300 ppm	500 ppm	Inhalation, dermal	Headache, dizziness	Irritation, CNS
Lead	Solid	0.05 mg/m^3	–	Inhalation, dermal	Weakness, eye irritation	CNS, GI, blood, kidney, reproductive

D. SITE SAFETY WORKPLAN

Perimeter Establishment: Map/Sketch Attached: X Site Secured: X
Perimeter Identified: X Zone(s) of Contamination Identified: X

Personal Protection:
Level of Protection: A: B: C: D: X

Modifications: Upgrade to level C upon high OVA readings (5 ppm)

Surveillance Equipment and Materials:
Instrument OVA Action Level 5 ppm

SITE PROCEDURES: Advance at least one soil boring, collect soil and groundwater samples from the boring, and abandon the boring.

HAZARDS: Potential hazards onsite comprise proximity to drilling equipment, exposure to explosive and flammable petroleum vapors and carcinogens.

LEVEL OF PROTECTION: Equipment to protect the body from contact with chemical hazards has been categorized by the Environmental Protection Agency into levels A, B, C, & D. Level A equipment is used when the highest level of protection is needed; Level D equipment is used when minimum protection is needed. The chemical hazard associated with petroleum hydrocarbons is typically low and Level D protection (see equipment list below) is adequate. In case of high levels

of contamination, an upgrade to Level C protection equipment may be advised. Level C and D equipment are listed below.

Level C Equipment: NIOSH/MSHA approved air purifying respirator, chemical resistant clothing, chemical resistant inner and outer gloves, chemical resistant boots with steel toe and shank, safety glasses and hard hat.

Level D Equipment: Coveralls, gloves, chemical resistant boots or shoes with steel toe and shank, safety glasses or chemical splash goggles, and hard hat. Tyvex overalls and Solvex or equivalent gloves are recommended.

EQUIPMENT REQUIRED FOR THIS PROJECT: Normal work clothing and safety glasses may be worn for site drilling work. Chemical-resistant gloves are required when sampling. Upgrade to Level C includes addition of NIOSH/MSHA approved air purifying respirator with organic vapor cartridges.

A First Aid Kit, fire extinguisher, and combustible gas indicator or PID are also required. The combustible gas indicator or PID is to be used to monitor air in breathing zone. Readings above 5 ppm are cause for concern. Continuous reading of 5 ppm or greater above background in the breathing zone requires an upgrade to Level C, including use of half-face respirator. Continuous readings of 50 ppm or greater in the breathing zone requires stopping the work.

The combustible gas indicator or PID is to be used continuously during all drilling activities. If more than 10 percent of the lower explosive limit (LEL) is measured in the drilling area proceed with caution. If more than 50 percent LEL is measured in the drilling area, provide ventilation of the area.

DECONTAMINATION PROCEDURES:

Personal: Remove gloves, wash hands; clean boots in decontamination area.
Equipment: Steam cleaning of all drilling equipment in the decontamination area. TSP wash of sampler between samples.

FIRST AID: Consultants vehicle has a first aid kit.

WORK LIMITATIONS (time of day, weather, heat/cold, stress): None

INVESTIGATION-DERIVED MATERIAL DISPOSAL: Soil and groundwater -to be determined based on analytical results; decontamination solutions - store in 55-gallon barrels.

E. EMERGENCY INFORMATION

LOCAL RESOURCES:

Ambulance: 911

Hospital Emergency Room: St. Helena Hospital
650 Sanitarium Road
St. Helena, California
(707) 963-6425

Directions to Hospital: Take Hwy 29 south to St. Helena. Turn left at Deer Park Road, go to Sanatorium Road and turn left. See Plate H.

Poison Control Center: (800) 233-3360 (415) 821-8324
Police: 911
Fire Department: 911
Explosives Unit: 911
Agency Contact: Jacqueline Bertaina, Napa County Public Health (707) 253-4269

SITE RESOURCES:

Water Supply: Onsite
Telephone: Onsite
Radio: None
Other:

EMERGENCY CONTACTS: Name: John Merchant
Phone: (415) 921-7869

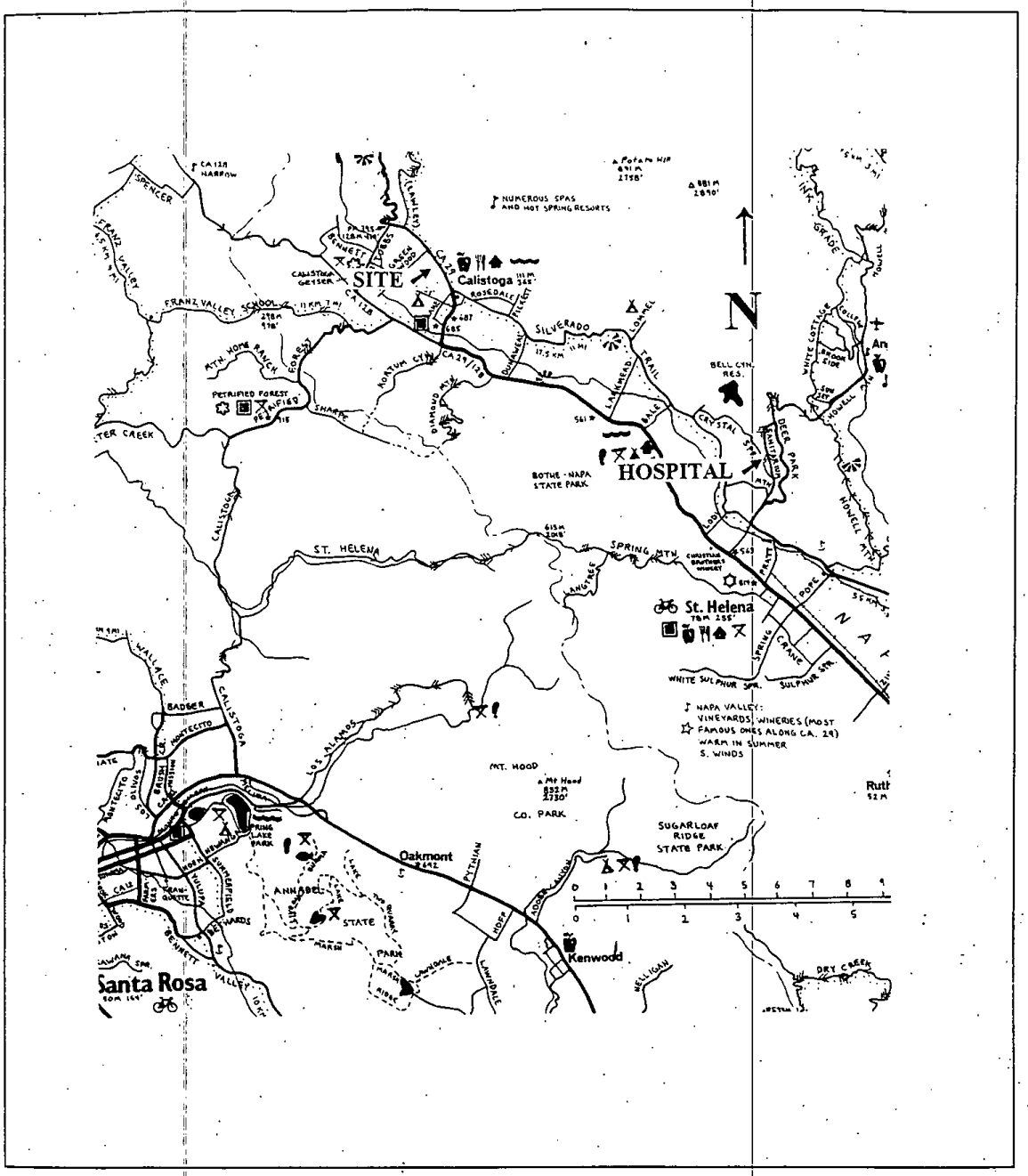
Name: Gerald Katz
Phone: (415) 563-6302

Name: Erin Donnelly
Phone: (707) 942-4913

SITE SKETCH: (Work zones, command post, etc.): See Workplan

Signature	Date

0358.99/ssp-borings



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Hospital Map
St. Helena Hospital
650 Sanitarium Road
St. Helena, California (707) 963-6425

PLATE
H

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
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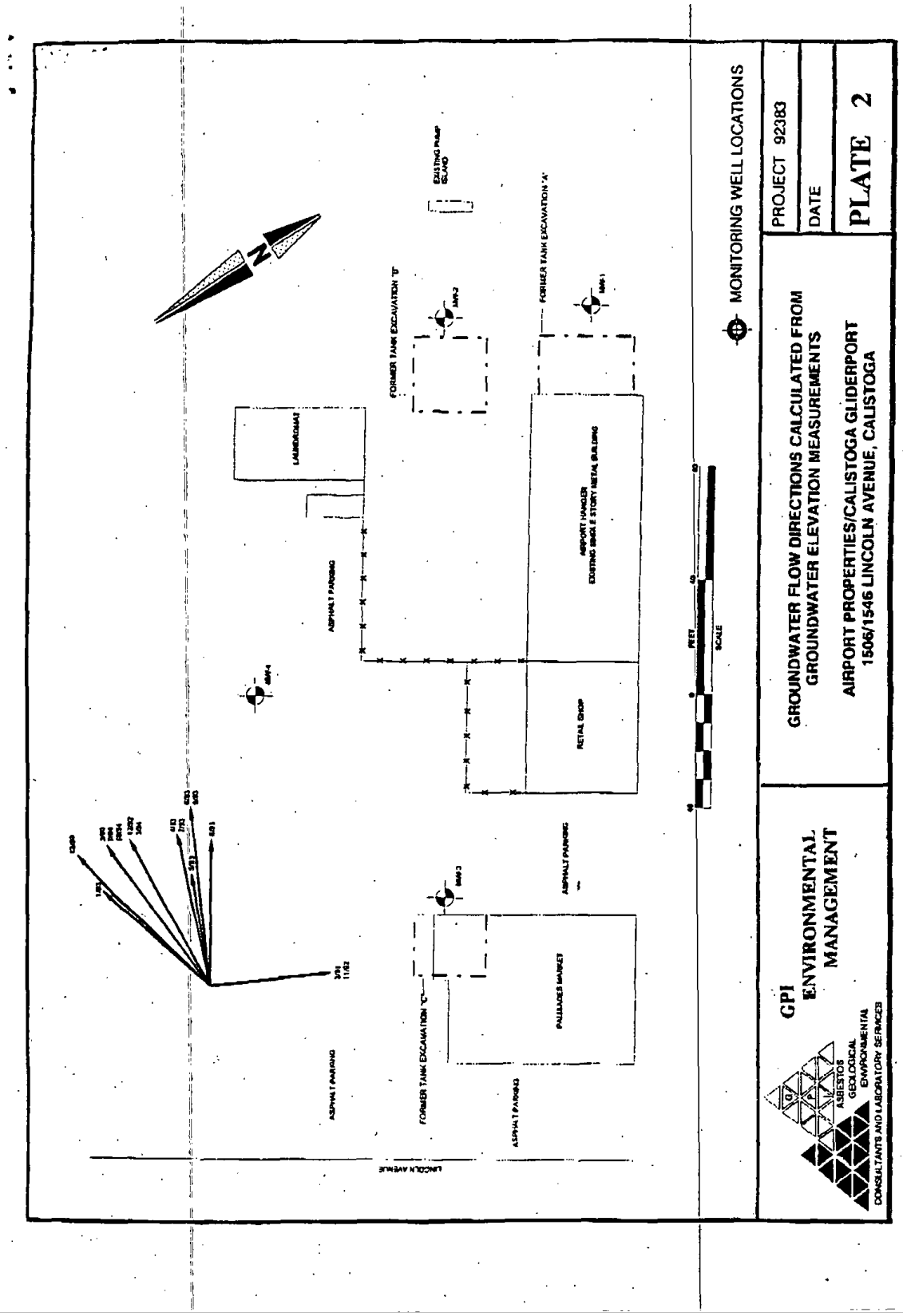
APPENDIX B

GPI Plate 2,
Groundwater Flow Direction Map


N
LAUNDROMAT
ASPHALT PARKING
FORMER TANK EXCAVATION "B"
MW-2
EXISTING PUMP ISLAND
FORMER TANK EXCAVATION "A"
MW-1
AIRPORT HANGER
EXISTING SINGLE STORY METAL BUILDING
RETAIL SHOP
MW-4
ASPHALT PARKING
FORMER TANK EXCAVATION "C"
MW-3
PASSMORE MARKET
ASPHALT PARKING
ASPHALT PARKING
LINCOLN AVENUE
MONITORING WELL LOCATIONS
FEET
SCALE
GPI
ENVIRONMENTAL
MANAGEMENT
ASBESTOS
GEOLOGICAL
ENVIRONMENTAL
CONSULTANTS AND LABORATORY SERVICES
GROUNDWATER FLOW DIRECTIONS CALCULATED FROM
GROUNDWATER ELEVATION MEASUREMENTS
AIRPORT PROPERTIES/CALISTOGA GLIDERPORT
1506/1546 LINCOLN AVENUE, CALISTOGA
PROJECT 92383
DATE
PLATE 2

LOP345
CL

NAPA COUNTY

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

TRENT CAVE, R.E.H.S.
Director

1195 THIRD STREET, ROOM 101 • NAPA, CALIFORNIA 94559-3082
AREA CODE 707/253-4471 • FAX 707/253-4545

January 11, 1996

Mr. John Merchant
2444 Clay Street
San Francisco CA 94115

Subject: **Underground Storage Tank Case**
Calistoga Gliderport and Merchant Property
1546 Lincoln Avenue and 1506 Lincoln Avenue
Calistoga, CA 94515
Napa County Sites LOP-345 and LOP-393

Dear Mr. Merchant:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

Mr. Merchant
Page 2
January 11, 1996

Please telephone Ed Halbach at (707) 253-4269 if you have any questions regarding this matter.

Sincerely,

Trent Cave,
Environmental Health Director

enclosure

cc: Brad Job, California Regional Water Quality Control Board, 2101 Webster St, Oakland CA 94612 w/o enclosure

Lola Barba, State Water Resources Control Board, Division of Clean Water Programs P.O. Box 944212, Sacramento, CA 94244-2120 with enclosure

Peter Almendinger, GPI Environmental Management, 1516 Grand Ave, Suite 226, Novato, CA 94945 w/o enclosure

Chris Andreasen, 1100 Miramontes, Half Moon Bay, CA 94019 with enclosure

John Marchesini, Indian Springs Resort, 1546 Lincoln, Calistoga, CA 94515 with enclosure

COUNTY *of* NAPA

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

STEVEN LEDERER
Director

CHRISTINE M. SECHELI, R.E.H.S.
Assistant Director

August 30, 2007

PATRICIA MERCHANT
1712 LINCOLN AVE
CALISTOGA CA 94515

Subject: **Remedial Action Completion Certification**
Former Calistoga Gliderport Site
1546 Lincoln Avenue
Calistoga, California
APN 011-340-016-000
Napa County Site LOP-345

Dear Ms. Merchant:

This letter confirms the completion of site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivision (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Steven Lederer
Director, Napa County Department of Environmental Management

cc: Kent Aue, SFB-RWQCB, 1515 Clay Street, Suite 1400, Oakland, CA 94612
David Charter SWRCB Div of Clean Water Programs Box 944212 Sacramento 94244
Richard Ely, Edd Clark & Associates, P.O. Box 3039, Rohnert Park, CA 94927-3039
Bill McBride, City of Calistoga, 414 Washington Street, Calistoga, CA 94515
John Calomiris, Edd Clark & Associates, P.O. Box 3039, Rohnert Park, CA 94927-3039
Napa County Tax Assessor

Edd Clark & Associates, Inc.
Environmental Consultants

October 3, 2006
Job No.: 0358,001.99

Patricia Merchant
2136 Pierce Street
San Francisco, CA 94115

Site Closure Request Report
Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California
Napa County Site LOP-345

Dear Ms. Merchant:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) Site Closure Request Report (SCRR) for the subject site located at 1546 Lincoln Avenue (site) in Calistoga, California (Figure 1). A release of fuel hydrocarbons (FHCs) occurred at the site from the former underground storage tank (UST) for aviation fuel that was removed in July 1999. After reviewing EC&A's May 23, 2006, *Feasibility Study/Corrective Action Plan* (FS/CAP), the Napa County Department of Environmental Management (NCDEM) in their letter dated June 9, 2006, requested that EC&A to prepare an SCRR to make an arguement for immediate site closure. The NCDEM requested that the SCRR include a detailed site conceptual model showing all aspects of the plume at the site, a discussion of nearby sensitive receptors and the actual locations of nearby water-supply wells, and attenuation curves depicting when the plume is estimated to attenuate to below Regional Water Quality Control Board's (RWQCB's) Environmental Screening Levels (ESLs) for contaminants in groundwater. A copy of this report will be sent to the NCDEM for their review.

BACKGROUND

Site Description

The site, which is owned by John and Patricia Merchant, includes four separate parcels that are occupied by several buildings. At this time, the buildings contain a yoga studio, laundromat and a hanger formerly occupied by the Calistoga Gliderport, which currently stores sculptures (Figure 2). The Palisades Produce Market (1712 Lincoln Avenue) directly west of the site is also owned by the Merchants. There is an out-of-service water well, which produces hot water, behind the Palisades Produce Market. There are three monitoring wells (MW-1, MW-2 and MW-3) onsite in the vicinity of the former UST.

There are three stockpiles onsite: SP#1, which consists of soil and asphalt from the removal of the runways; SP#2, which consists of soil from the 1999 UST removal; and SP#3, which consists of soil from the 1990 UST removal (Figure 2). As reported in their February 19, 2003 letter, the runway stockpile doesn't fall under the purview of NCDEM LOP.

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
Fax (707) 792-9504
corpmail@ecaenviron.com

The ground surface in the vicinity of the former UST is flat. The Napa River is about 850 feet (ft) south of the site and flows toward the southeast. Two leaking UST sites regulated by the NCDEM, Birleffi Motors and the Calistoga Corporation Yard, are approximately 1500 ft north and 1400 ft southeast, respectively, of the site.

Other UST Sites

Two leaking UST sites regulated by the NCDEM, Birleffi Motors and the Calistoga Corporation Yard, are approximately 1500 ft north and 1400 ft southeast, respectively, of the site.

Sensitive Receptor Survey- July 2000

During July 2000, EC&A performed a Sensitive Receptor Survey (SRS) to identify municipal and private water-supply wells and other potential sensitive receptors in the vicinity of the location of the former USTs. The search parameters were municipal and private water-supply wells within 1000 ft, surface drainage and wetlands within 750 ft and basements, utility vaults and trenches within 250 ft of the site. EC&A acquired from the California Department of Water Resources (DWR), driller's reports of the installation of water-supply wells at locations within 1000 ft or the site. Additionally, EC&A personnel performed a reconnaissance of the area within 750 ft of the site, to identify surface water locations. Also included in the reconnaissance was a search of the area within 500 ft of the site to confirm water-supply well locations identified in the DWR driller reports.

The DWR identified 72 water-supply wells within the 1000-ft radius. Seven water-supply wells were identified within a 500-ft radius of the site: one domestic well each at 1475 Lincoln Avenue, 631 First Street, 1514 Grant Street and 1418 Franklin Street, respectively; one irrigation well at 1507 Lincoln Avenue; one industrial well at 1506 Grant Street; and one geothermal well on the Calistoga Unified School District (CUSD) property. Not including the onsite water-well described below, the closest well to the site is the one located at 1507 Lincoln Avenue, approximately 200 ft south of the site. Survey results including construction details of wells reported by the DWR within a 1000-ft radius were included in EC&A's August 15, 2000 *Preliminary Site Investigation Report* (PSI report). Figure 3 shows the locations of the domestic wells within 500 ft of the site.

No municipal wells were identified within the survey area. According to information obtained from the Calistoga Planning Department, municipal water wells are located approximately one mile to the north and northwest of the site.

Thirty geothermal wells are located within one-half mile of the site. The locations of these wells are shown on Figure 4. The well survey results are tabulated in Appendix A.

Underground utilities for water, storm drains and sanitary sewer lines are located beneath Lincoln Avenue and along the sidewalk immediately west of the site. When accessible, the utility vaults were monitored with an organic vapor analyzer for hydrocarbons vapor. Hydrocarbons vapor was not detected in the vaults during the site survey.

The only surface-water body identified by the SRS was the Napa River, which is located approximately 850 ft south of the site and flows toward the southeast.

Updated SRS - February 2001

The DWR search did not identify the well behind the Palisades Produce Market at 1712 Lincoln Avenue. This is the well that the August 15, 2000 PSI report indicated may be present at the site and was referred to in the August 23, 2000 NCDEM letter. After contacting the site owner and learning that the well was behind the Produce Market, EC&A inspected the well on February 7, 2001. The well (WS-1) is about 8 ft beyond the southeast corner of the building in a 3-ft by 2.5-ft by 3-ft deep concrete vault.

At the time of EC&A's inspection, the well was not capped and there was no pump or plumbing connected to it. The casing was steel with an inside diameter of about 5.63 inches. The total depth of the well is about 141 ft. The DTW was 9.9 ft and the water was hot. To secure the well from surface water run-off, EC&A inserted a pressure plug in the well casing, constructed a low curb around the vault and patched holes in the metal vault cover.

Groundwater Monitoring - July 2002 through April 2006

Monitoring Wells

Between July 2002 and April 2006, eight groundwater monitoring events were performed that included MW-1, MW-3 and WS-1; MW-2 was monitored eleven times. The groundwater-flow direction during these events was consistently south to south-southwest. Groundwater elevations and gradients are in Table 1. Review of the analytical results from the monitoring events show that the groundwater plume consists primarily of low concentrations of MTBE. The plume appears to be stable and the MTBE concentrations slowly decreasing. In October 2004, a monitoring event that only included MW-2 and WS-1 resulted in analyses indicating that TPHg and BTEX were in groundwater in MW-2. Previously, only one-time detections of low concentrations of toluene and xylenes were reported from this well. A verification sample collected two weeks later established that TPHg and BTEX were not present in groundwater from MW-2.

TPHg, TPHavgas, benzene, ethylbenzene and the lead scavengers EDB and 1,2-DCA have been reported by the laboratory as non-detect (ND) in all the monitoring wells. Minor concentrations of toluene and/or xylenes have been detected in all the monitoring wells; however, these analytes have been below their respective detection limits for the last five to seven monitoring events. The results of analyses of the samples are in Table 2.

Water-supply Well

Groundwater in WS-1 has been sampled eleven times since June 2001. On July 25, 2002, TPHd was detected in the groundwater at 16,000 µg/l; however, the analytical laboratory reported that the TPHd-range hydrocarbons detected in the sample appeared to result from waste cooking oil that entered the well. To verify this finding, a fuel fingerprint was run on the sample of the oil product, using Method 8015m. The analytical laboratory described the results of the fingerprinting as having a similar pattern to various vegetable oils, and that the chromatogram was a close match to the corn oil standard. EC&A removed as much cooking oil as possible (approximately 2.5 gallons) from WS-1 on July 25, 2002, when it was first observed, and during each subsequent sampling event. Since the well vault and well head were secured in July 2002 to prevent further entry of waste cooking oil into the well, TPHd-range hydrocarbon concentrations have declined to ND.

TPHg and/or TPHavgas have only been detected in groundwater from WS-1 in three of nine sampling events, and each time, at concentrations at or below 87 µg/l. TPHg and TPHavgas have not been detected in groundwater from WS-1 for four and five consecutive sampling events including the one performed in April 2005. TPHd has not been detected in groundwater from WS-1 for the last five consecutive sampling events. With the exceptions of minor amounts of ethylbenzene and xylenes detected in July 2002, toluene and ethylbenzene in April 2003, and toluene in October 2003 and April 2004, BTEX and lead scavengers have not been detected in groundwater from WS-1.

Additionally, with the exception of 1600 µg/l ethanol in the July 2002 sample, which was attributed to the waste cooking oil, fuel oxygenates other than a one-time detection of 0.65 µg/l MTBE have not been detected in groundwater from WS-1. The results of analyses of the samples from WS-1 are in Table 3.

Stockpile Management

There are three stockpiles onsite: SP#1, which consists of approximately 950 cubic yards (cu yds) of soil and asphalt from the removal of the runways; SP#2, which consists of approximately 50 cu yds of soil from the 1999 UST removal and drill cuttings from the soil borings and monitoring well installations associated with the 1999 UST removal; and, SP#3 which consists of approximately 340 cu yds of soil from the 1990 UST removal (Figure 2). As reported in their February 19, 2003 letter, the regulation of stockpile SP#1 does not fall under the purview of NCDEM LOP, stockpile SP#2 can be spread onsite, and stockpile SP#3 required additional characterization.

On November 7, 2003, EC&A collected seven discrete soil samples (one sample per 50 cu yds) from stockpile SP#3. One detection of benzene at 0.0060 mg/kg, two detections of toluene at 0.012 mg/kg and 0.0055 mg/kg, respectively, and two detections of xylenes at 0.0097 mg/kg and 0.0075 mg/kg, respectively, were reported in these samples. Total lead concentrations ranged from 15 mg/kg to 93 mg/kg. Analytical results are summarized in Table 4.

The SFBRWQCB February 2005 ESLs for lead, benzene, toluene and xylenes for shallow residential soils where groundwater is a current or potential source of drinking water are 150 mg/kg, 0.044 mg/kg, 2.9 mg/kg and 2.3 mg/kg, respectively. Because none of the reported concentrations of these analytes exceed their respective ESLs, EC&A recommends that the soil from stockpile #3 be disposed of on site.

HYDROGEOLOGY

Geologic Conditions

Information provided by the SWRCB on subsurface conditions at the Calistoga Corporation Yard and Birleffi Motors, which are approximately 1400 ft southeast and 1500 ft northeast of the site, respectively, indicates that at these properties the upper 25 ft to 32 ft of soil is younger alluvium. Below this depth is an older alluvium, characterized by dense greenish-brown clayey gravel (GC). Below the clayey gravel are more permeable materials.

Based on observations of soils in B-1 and B-2, Envirocore® boring EB-1, CPT borings B-3 through B-8 and the borings for MW-1, MW-2 and MW-3, a clayey silt and silty clay unit extends from the ground surface to 7 ft to 12 ft bgs (Figures 5, 6 and 7). This unit is underlain by interbedded silty sand, gravelly sand and/or sandy gravel. In EB-1, a greenish-gray sand and gravel unit extended from 12.5 ft bgs to 28 ft bgs. This unit is interpreted to be the lower part of the younger alluvium.

The top of the older alluvium in EB-1, a silt with very fine sand, was observed from approximately 28 ft to 32.5 ft bgs. This unit is underlain by blue-gray sandy gravel to gravelly sand to a depth of at least 39.5 ft, where the drill rods refused additional advancement. Locally, as in B-5, the silt unit appears to separate the overlying recent alluvium from underlying gravelly older alluvium deposits.

The CPT data consistently showed an abrupt increase in tip resistance at depths of approximately 22 ft to 30 ft. This depth is interpreted by EC&A to represent the top of the older alluvium. The lack of oxidation or other evidence of weathering on the top of the older alluvium in EB-1 suggests that there was not a significant hiatus in deposition at this horizon. Based on the CPT boring logs, silty sand to gravel of the older alluvium appears to extend to at least 60 ft bgs. A persistent hydraulic barrier between the older and younger alluviums was not observed. Consequently, the two alluvium bodies constitute one aquifer that extends to below a depth of 60 ft.

Groundwater

Groundwater depth in B-1, B-2, EB-1, MW-1, MW-2 and MW-3 ranges from approximately 9.5 ft to 12 ft. The uppermost aquifer beneath the site is the gravelly sand and sandy gravel unit described above that extends from a depth of 10 ft to 12 ft to about 60 ft. Based on groundwater levels in the soil borings, which appeared to rise above the depth of the first saturated soil, the aquifer may be confined or semi-confined by the overlying clay or silty clay (0 ft to 12 ft bgs). Groundwater in the CPT borings at over 50 ft bgs rose quickly in the cased borings to approximately 20 ft bgs.

On April 03, 2006, the calculated groundwater-flow direction and gradient in the area around the former location of the10,000-gallon UST were S35°E and 0.0029 ft/ft, respectively (Figure 8). In the ten monitoring events since July 2002, the gradient has ranged from S34°W to S35°E, see Table 1.

At the Calistoga Corporation Yard and Birleffi Motors, which are approximately 1400 ft southeast and 1500 ft northeast of the site, respectively, groundwater-flow direction has been reported by others to be toward the south-southeast.

SUMMARY OF FHC-IMPACTS TO SOIL & GROUNDWATER

Soil

Based on the results of analyses of soil samples from the July 1999 UST removal, it appears that FHC-impacted soil is not present in the area around the former location of the UST for avgas. The only FHCs detected were trace concentrations of TPHg and BTEX compounds in samples from the stockpile of soil from UST excavation, see Table 4. Also, based on the results of analyses of soil

samples from the November 1999 and July 2002 Soil and Groundwater Investigations, and the July 2002, except for toluene at 0.040 mg/kg at 11 ft bgs in B-1, FHCs were not identified in samples from any of the borings, see Table 5.

Groundwater

Groundwater elevation data collected since July 2002 show that the flow direction in the vicinity of the former UST has ranged from southerly to south-southwest. Based on this data, MW-2 and MW-3 are located in the down-groundwater-gradient direction from the former UST for avgas. Analytical results for the monitoring well samples are in Table 2; grab-groundwater analytical results are in Table 6.

MTBE and TBA

MTBE is the principal FHCs impacting site groundwater. The only other fuel oxygenate detected in groundwater to date has been tert-butyl alcohol (TBA), which was detected once in MW-2 (5.1 µg/l, April 2004) and once in MW-3 (5.1 µg/l, July 2002).

Source Area:

MTBE was detected at 5.1 µg/l in the sample collected from water in the floor of the 1999 UST excavation. In the grab-groundwater sample from B-1, which was located within 10 ft northwest of the 1999 UST excavation, MTBE was detected at 2.4 µg/l. The highest concentrations measured to date (200 µg/l) were in a grab-groundwater sample from B-2, which was located within 10 ft of the down-gradient side of the 1999 UST excavation (Figure 9). However, MTBE concentrations decreased to 11 µg/l in B-5, which is located approximately 20 ft down-gradient from B-2.

Horizontal Extent of MTBE-Impacted Groundwater:

The horizontal extent of shallow MTBE-impacted groundwater is south of B-3 (ND<1.0 µg/l), west of MW-1 (ND< 0.5 µg/l) and B-8 (5.3 µg/l), east of B-4 (ND<1.0 µg/l) and northeast of MW-3 (ND< 0.5 µg/l) and B-6 (ND<1.0 µg/l). MTBE is consistently detected in samples from MW-2 (15 µg/l, April 2006) near the southern corner of the property. It was also detected in the sample from B-7 (20 µg/l) in 2001; see Figure 9.

The extent of MTBE-impacted groundwater offsite beyond the southwestern and southeastern property lines is not known. However, analyses of groundwater samples from MW-3 and B-6 indicate that the lateral extent of MTBE-impacted shallow groundwater is near the property line. In a sample from MW-3 in October 2003, MTBE was detected at 0.64 µg/l. MTBE was not detected in samples from MW-3 in the 2004, 2005 and 2006 monitoring events. MTBE was not reported in three grab-groundwater samples from CPT boring B-6, which is located near MW-3.

Analyses of samples from MW-1 (ND<0.5 in all but one event) and B-8 (5.3 µg/l), indicate that the extent of MTBE-impacted groundwater is near the southeast property line.

At the southern (downgradient) corner of the property, the sample of shallow groundwater from B-7 contained 20µg/l MTBE in June 2001. Also, samples from MW-2 contained MTBE at

concentrations ranging from 66 µg/l to 15 µg/l. MTBE impacts above 5.0 µg/l probably extend less than 100 ft downgradient beyond the southern corner of the site.

MTBE concentrations in MW-2 have been declining slowly since the well was installed in July 2002 (Figure 9). Extrapolation of the trend indicates that it is likely that MTBE concentrations downgradient from MW-2 will remain above the SFBRWQCB's risk-based screening level of 5.0 µg/l for MTBE where groundwater is a current or potential source of drinking water until sometime in 2008.

In WS-1, which is 245 ft west (cross gradient) of the 1999 UST excavation, a one-time minor detection of MTBE (0.65 µg/l) was reported in October 2005. The source of the MTBE in this well is unknown.

Vertical Extent of MTBE Impacts:
The vertical extent of MTBE was defined in four of the five CPT borings. MTBE was detected in only two of the eleven samples collected at or below a depth of 30 ft. It was detected at 2.7 µg/l in the sample from 30 ft bgs in B-8 and 1.5 µg/l in the sample from 52 ft bgs in B-7. Data from soil and CPT borings within 100 lateral ft and 55 vertical ft of the former location of the UST indicate that soils between 10 ft and 60 ft bgs are hydraulically interconnected, see Figures 6 and 7. Evidence of an aquitard between 10 ft and 60 ft bgs was not observed. The presence of trace concentrations of MTBE at depths of 31 ft and 52 ft bgs in B-7 (1.0 µg/l and 1.5 µg/l, respectively) is consistent with these observations.

TPHavgas
TPHavgas was detected at 100 µg/l in the sample collected from water in the floor of the 1999 UST excavation. In the grab-groundwater sample from B-1, which was located within 10 ft northwest of the 1999 UST excavation, TPHavgas was non-detect. The highest concentrations measured to date (330 µg/l) were detected in a grab-groundwater sample from B-2, which was located within 10 ft of the down-gradient side of the 1999 UST excavation (Figure 10). TPHavgas concentrations decreased to 75 µg/l in B-5, which is located approximately 20 ft down-gradient from B-2.

The extent of TPHavgas in shallow groundwater has migrated less than 100 ft laterally from the former location of the UST for leaded avgas and from the ground surface, less than 30 ft vertically. Figure 10 is an isoconcentration contour map of TPHavgas in groundwater.

TPHavgas above a concentration of 50 µg/l in groundwater appears to extend from UST Excavation B, down-gradient to the vicinity of B-5, and is vertically limited to the younger alluvium above a depth of 33 ft. TPHavgas was not detected in groundwater from MW-2 or B-7, which are located approximately 100 ft southeast of the former location of the UST. Therefore; TPHavgas does not appear to be moving offsite. However, TPHavgas was detected at 130 µg/l in groundwater from B-4 approximately 70 ft northwest of the former Excavation D in the cross-gradient direction, within former UST Excavation B. The TPHavgas in shallow groundwater may be derived from residual FHCs at this location. The extent of TPHavgas impacted groundwater is constrained to the east by B-8 and MW-1. Upgradient to the north, the extent of TPHavgas is to the south of B-1.

BTEX Compounds

Concentrations of benzene were not detected in the groundwater sample collected from the 1999 UST excavation nor from groundwater samples collected from the monitoring wells. Low concentrations (2.0 µg/l or less) of toluene and/or xylenes were detected in groundwater from three monitoring wells in 2002 and in the January 2003 monitoring event. In 2001, low concentrations of benzene (0.85 µg/l to 1.2 µg/l) were detected in one grab-groundwater sample each from CPT borings B-3, B-5 and B-7. Similarly, low concentrations (0.81 µg/l to 8.0 µg/l) of toluene were detected in one grab-groundwater sample each from CPT borings B-4, B-5, B-6 and B-8. Ethylbenzene and xylenes were not detected in the grab-groundwater samples.

Benzene:

The horizontal extent of the benzene plume is constrained by ND values in groundwater cross-gradient to the northwest in B-4 and cross-gradient to the northeast in MW-1 and B-8. Up-gradient to the north, benzene was detected in the sample from 30 ft bgs in B-3 at 0.86 µg/l. Down-gradient to the southwest, benzene was not detected in groundwater from MW-3 or in the three grab-groundwater samples from B-6. Down-gradient to the south, benzene was not detected in samples from MW-2 or the two shallow samples from B-7. However, the sample from 52-ft bgs in B-7 had 1.2 µg/l benzene, i.e. slightly above the MCL of 1.0 µg/l for potable groundwater. Similar relationships were observed immediately down-gradient of the 1999 UST excavation, where benzene was not detected in shallow groundwater in B-2 and B-5, but was present at 0.86 µg/l in the sample from 55-ft bgs in B-5, see Figure 2. The absence of a benzene concentration-gradient across the site, the presence of benzene up-gradient from the 1999 excavation, and the presence of benzene in the 55 ft sample in B-5, but not in the shallow samples, suggests the existence of another source.

Toluene:

The horizontal extent of the toluene plume is evidenced by ND values in groundwater cross-gradient to the northeast in MW-1 and up-gradient to the north in B-3 and B-1. Cross-gradient to the northwest, toluene was detected at 8.0 µg/l in the shallow sample from B-4, which was advanced through former UST Excavation B. Down-gradient to the southwest, toluene was not detected in groundwater from MW-3 or the top two grab-groundwater samples from B-6. Toluene was detected at 0.81 µg/l in the sample from 53 ft bgs in B-6. Down-gradient to the south, toluene was not detected in samples from MW-2 or the three samples from B-7. Immediately down-gradient of the 1999 UST excavation, toluene was not detected in the sample from B-2 and only the sample from 16 ft bgs in B-5, which had 2.2 µg/l at 16 ft bgs. The absence of a toluene concentration-gradient across the site, and the presence of toluene in the 53 ft sample in B-6 (but not the shallow samples), also suggests that another source exists.

Discussion

Based on the San Francisco Bay Regional Water Quality Control Board's Interim Final - February 2005 ESLs where groundwater is a current or potential source of drinking water, the only FHC detected in the site monitoring wells above the ESLs is MTBE. The ESL for MTBE is 5.0 µg/l; this ESL has only been exceeded in monitoring-well groundwater samples collected from MW-2. Overall, MTBE concentrations in MW-2 have decreased from 66 µg/l (October 2002) to 15 µg/l

(April 2006). Based on the time-series history of analytical results for groundwater from MW-2, MTBE concentrations in groundwater in this well will reach the ESL in 2008 (Figure 4).

GROUNDWATER QUALITY PARAMETERS

Water Temperature

The site is located in the Calistoga geothermal field (Geothermal Map of California, 2002, California Division of Oil, Gas and Geothermal Resources Map S-11, by Susan F. Hodgson and Leslie G. Youngs, scale 1:500,000; <ftp://ftp.consrv.ca.gov/pub/oil/maps/Geothermal/MapS-11.pdf>). The State of California does not consider groundwater in aquifers that are regulated as a geothermal-energy producing source, to be suitable for municipal or domestic water supply purposes (State Water Resources Control Board Resolution No. 88-63, May 19, 1988).

Shallow groundwater temperatures at the site are elevated and range from about 105° F in MW-1 to about 77° F in MW-3. In October 2005, a uniform thermal gradient was present beneath the site, with temperatures increasing to the east (Figure 11). In April 2006, groundwater levels were at their highest and temperatures were at their lowest since monitoring began in July 2002, probably because of the recent heavy rainfall and the influx of cold rainwater.

Deep groundwater is very hot. When the hydropunch samples from the CPT borings were collected in 2001, the field geologist reported that the VOAs were almost too hot to touch. The water temperature in WS-1 was 120° F in October 2005.

Total Dissolved Solids

High electrical-conductivity (EC) readings for groundwater in the monitoring wells indicate that high concentrations of Total Dissolved Solids (TDS) are present in site groundwater. The EC readings from each well were converted to TDS concentrations in parts per million (ppm) by multiplying the EC readings (microSiemens per centimeter [µS/cm]) by 0.67. Groundwater quality data including the temperature and TDS conversion formula are in Table 7. Because groundwater temperatures are elevated, a temperature correction of minus 1.1 % was applied for every degree Fahrenheit above 77°.

In general, TDS concentrations from MW-1 and MW-2 are above 2300 ppm. The highest reading to date was 3489 ppm (MW-2, October 2005). TDS concentrations in MW-3, the well with the coolest groundwater, have generally been above 700 ppm.

Based on the SFBRWQCB's criteria for determining if groundwater is a potential source of drinking water, groundwater where TDS measurements exceed 3000 milligrams per liter (mg/l) and/or electrical conductivity exceeds 5000 micromhos/centimeter (µS/cm) is not considered a potential source of drinking water.

CONCLUSIONS

Based on the time-series history of analytical results for groundwater from MW-2, MTBE concentrations in groundwater in this well will reach the SFBRWQCB risk-based screening level of 5.0 µg/l for sites where groundwater is a current or potential source of drinking water in 2008 (Figure 12). Concentrations near the former UST excavation are likely higher and consequently, would take longer to achieve this level.

Based on the high TDS concentrations, shallow site groundwater is only marginally acceptable for municipal or domestic water supply purposes. Deep groundwater, which is regulated as a geothermal-energy producing source, also is not suitable for municipal or domestic water supply purposes.

Given the ND to low (15 µg/l) MTBE concentrations detected near the southern border of the site, it is highly unlikely that MTBE-impacted groundwater would impact sensitive receptors down-gradient or south of the site.

Recommendations

Based on the above conclusions, EC&A requests that the NCDEM grant closure for the site. If site closure is granted, EC&A will prepare a workplan to abandon the monitoring wells.

LIMITATIONS

The conclusions presented in this report are professional opinions based on the data presented in this report, including data generated by others. Whereas EC&A does not guarantee the accuracy of information supplied by third parties, we reserve the right to use this information in formulating our professional opinions. They are intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A the opportunity to provide environmental services for you. Please call John Calomiris, EC&A project manager, if you have any questions.

Sincerely,

John Calomiris
Technical Operations Manager

Richard Ely, PG #4137
Senior Geologist

PROFESSIONAL GEOLOGIST
Richard W. Ely
No. 4137
STATE OF CALIFORNIA

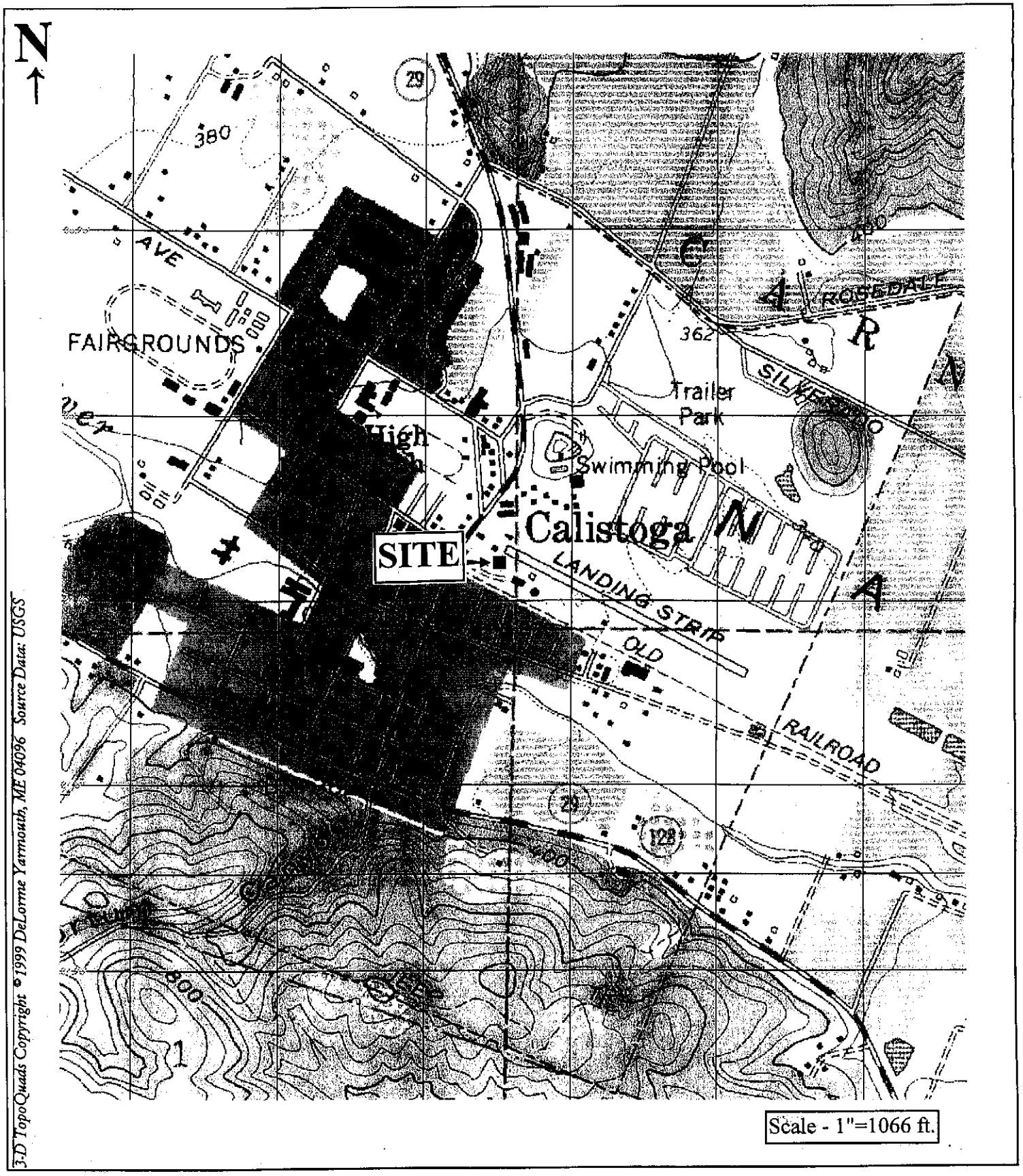
Attachments: Figure 1 - Site Location Map
Figure 2 - Site Vicinity Map
Figure 3 - Sensitive Receptor Survey Radius and Location Map
Figure 4 - Geothermal Wells
Figure 5 - Site Map with FHC Concentrations & Cross-Section Locations
Figure 6 - Cross Section A-A'
Figure 7 - Cross Section B-B'
Figure 8 - Groundwater Elevation Map, 03 April 2006
Figure 9 - Isoconcentration Contour Map of MTBE in Groundwater
Figure 10 - Isoconcentration Contour Map of TPHg (avgas) in Groundwater
Figure 11 - Temperature Gradient Map
Figure 12 - Time Series Graph of MTBE Concentrations

Table 1 - Groundwater Elevation Data
Table 2 - Analytical Results - Groundwater Samples From Monitoring Wells
Table 3 - Analytical Results - Groundwater Samples From Domestic Well
Table 4 - Analytical Results - UST Removal Soil and Water Samples
Table 5 - Analytical Results - Soil Samples From Borings
Table 6 - Analytical Results - Grab-groundwater Samples From Soil Borings
Table 7 - Groundwater Quality Data

Appendix A - Table SRS: Sensitive Receptor Survey Results

cc: Joel Coffman, Napa County Department of Environmental Management
Mary Rose Cassa, San Francisco Bay Regional Water Resources Control Board

0358\FS-CAP



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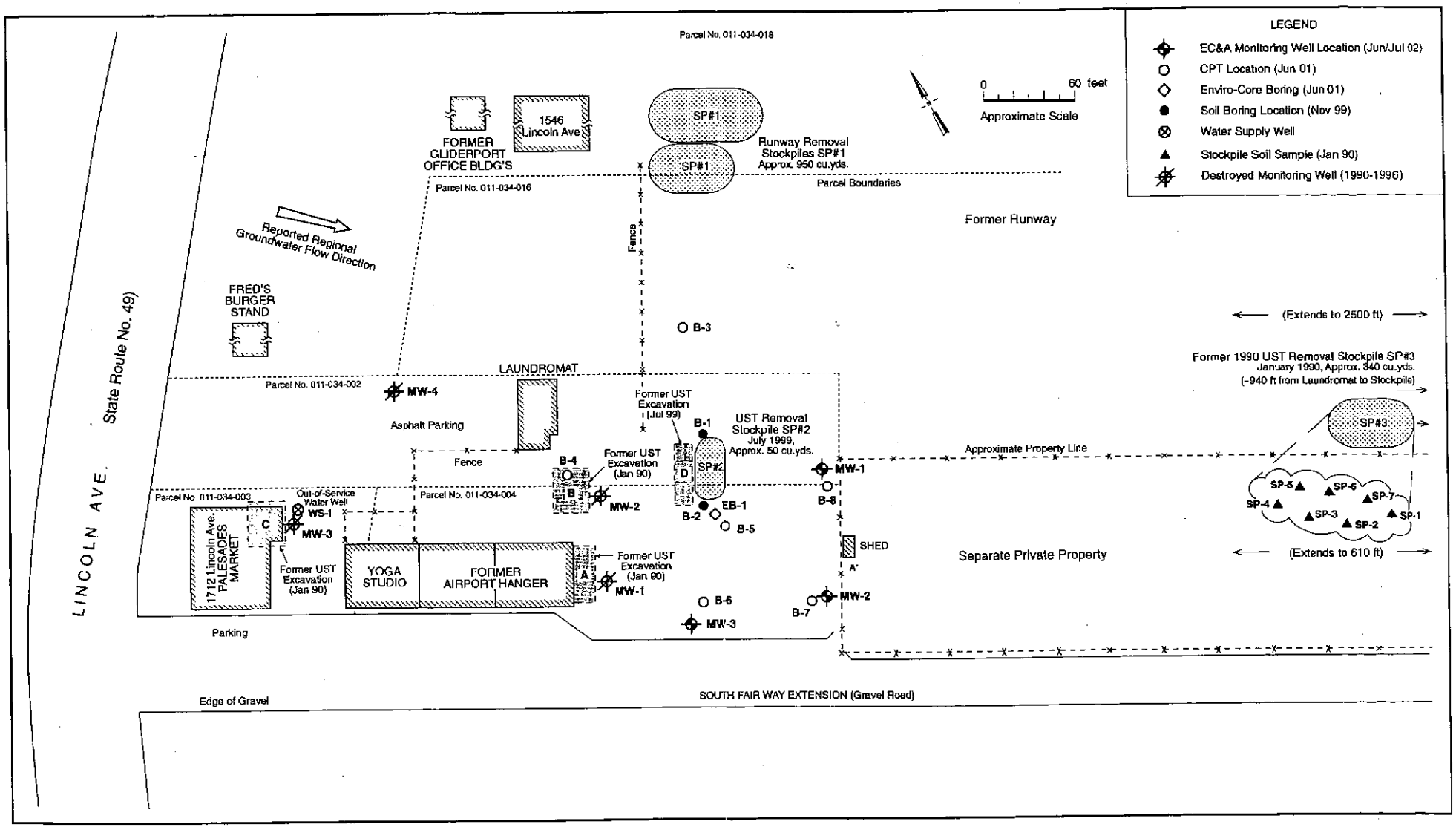
Site Location Map
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
1

Job number 0358,001.99 Reviewed by Date February 2001 Revised date



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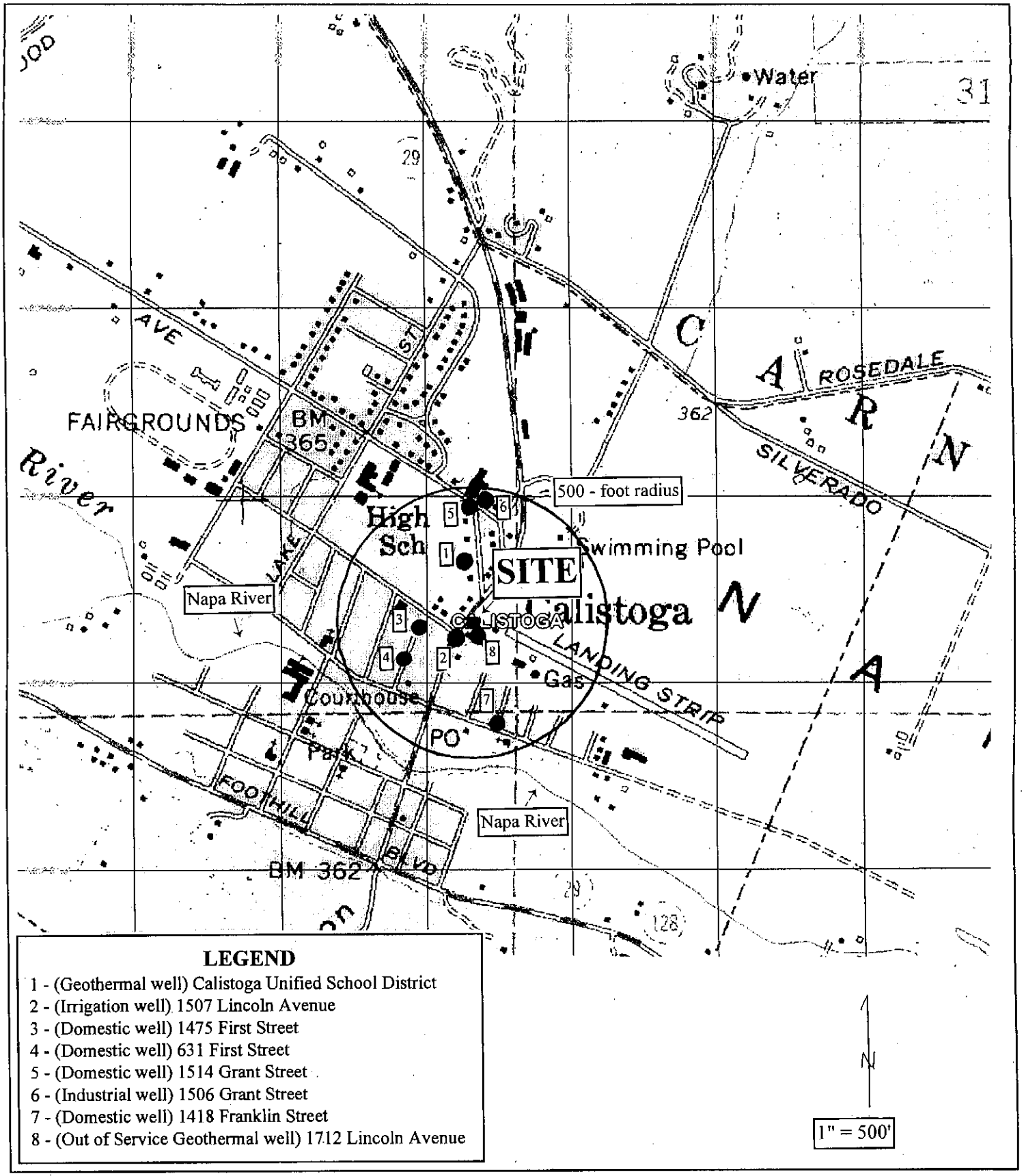
SITE VICINITY MAP
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358.001.99	EC&A, Richard Bly	February 2001	October 2005	1 of 1

(TRACE N:\DWG\140x08)



LEGEND

1 - (Geothermal well) Calistoga Unified School District
2 - (Irrigation well) 1507 Lincoln Avenue
3 - (Domestic well) 1475 First Street
4 - (Domestic well) 631 First Street
5 - (Domestic well) 1514 Grant Street
6 - (Industrial well) 1506 Grant Street
7 - (Domestic well) 1418 Franklin Street
8 - (Out of Service Geothermal well) 1712 Lincoln Avenue

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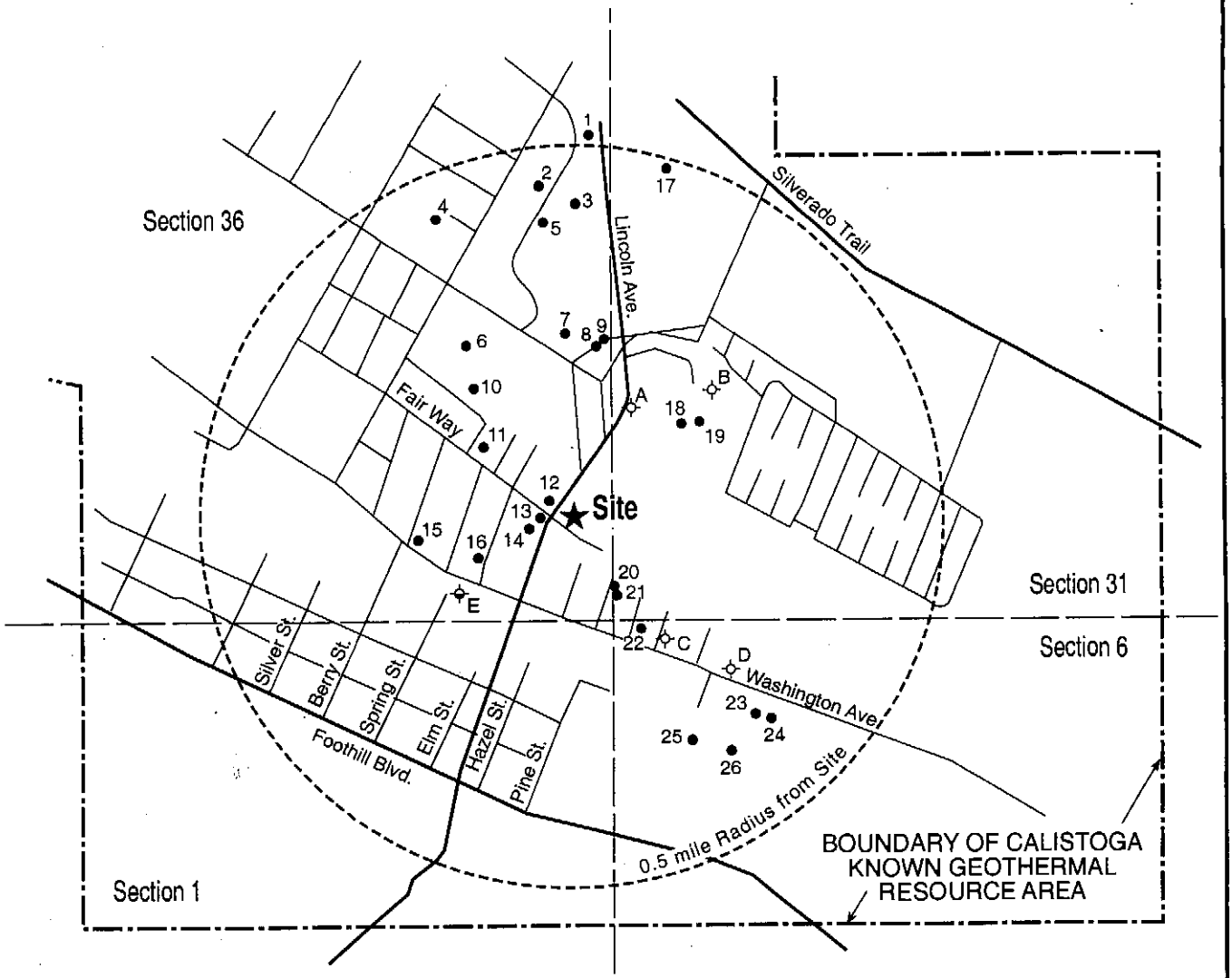
Sensitive Receptor Survey Radius and Location Map FIGURE **3**
Calistoga Glider Port
1546 Lincoln Avenue
Calistoga, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
0358.99	BLW/JCC	JULY 2000	2/12/2001



NAMES OF WELLS

1. Wilson Constance S. 'Wilson' 1
2. Calistoga (private) Well 'View Road' 33
3. VIP Associates 'Village Inn' 1
4. Calistoga (private) Well 'Golden Haven Spa' 1
5. Calistoga (private) Well 'View Road' 40
6. Calistoga Joint Unified School Dist. 'CHS' 1
7. Calistoga (private) Well 'Grant St.' 1514
8. Calistoga (private) Well 'Fox' 2
9. Napa Valley Springs Mineral Water Co. 'Fox' 3
10. Calistoga (private) Well 'Little Village' 1
11. Calistoga (private) Well 'Dober' 1
12. Calistoga (private) Well 'Wilkinson' 1
13. City of Calistoga Exploration. Inc. 'CDHS' 1
14. Calistoga Mineral Water Co. 1
15. Calistoga (private) Well 'Ester' 1
16. Quast. Max 'Roman Spa'
17. C.J. Assoc. 'Lincoln Ave.' 1880
18. Pacheteau's 'Pacheteau' 4
19. Pacheteau's 'Pacheteau' 6
20. Calistoga)private) Well 'Calistoga Spa' 1
21. Calistoga (private) Well 'Calistoga Spa' 2
22. Calistoga (private) Well 'Donshick' 1
23. Crystal Geyser Water Co. 'Crystal' 1
24. Crystal Geyser Water Co. 'Crystal' 2
25. Crystal Geyser Water Co. 'Crystal' 5
26. Crystal Geyser Water Co. 'Crystal' 4

A. Pacheteau's 'Pachetau' 1
B. Calistoga Power Co. 'Pacheteau' 1
C. Calistoga (private) Well 'Cirios' 1
D. Crystal Geyser Water Co. 'Crystal' 3
E. City of Calistoga Exploration, Inc. 'Calis' 1

LEGEND

- ● Capable of Production
- ⊕ Drilled-idle
- ⊕ Plugged and Abandoned-dry hole

N

0 — 2500 feet

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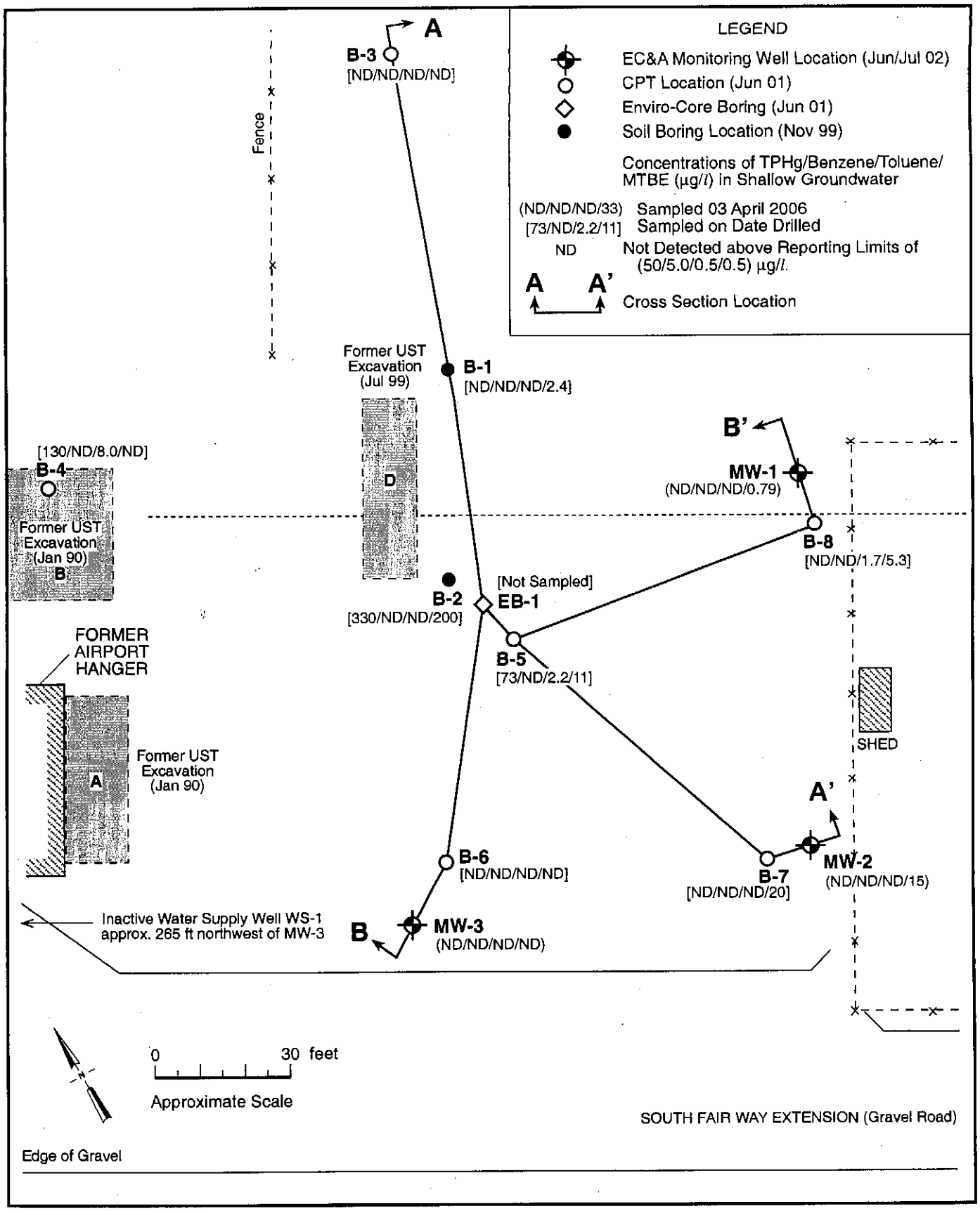
GEOTHERMAL WELLS
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
4

(TRACE #270/RG/15Aug06)

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, Richard Ely	August 2006		1 of 1



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ENVIRONMENTAL CONSULTANTS

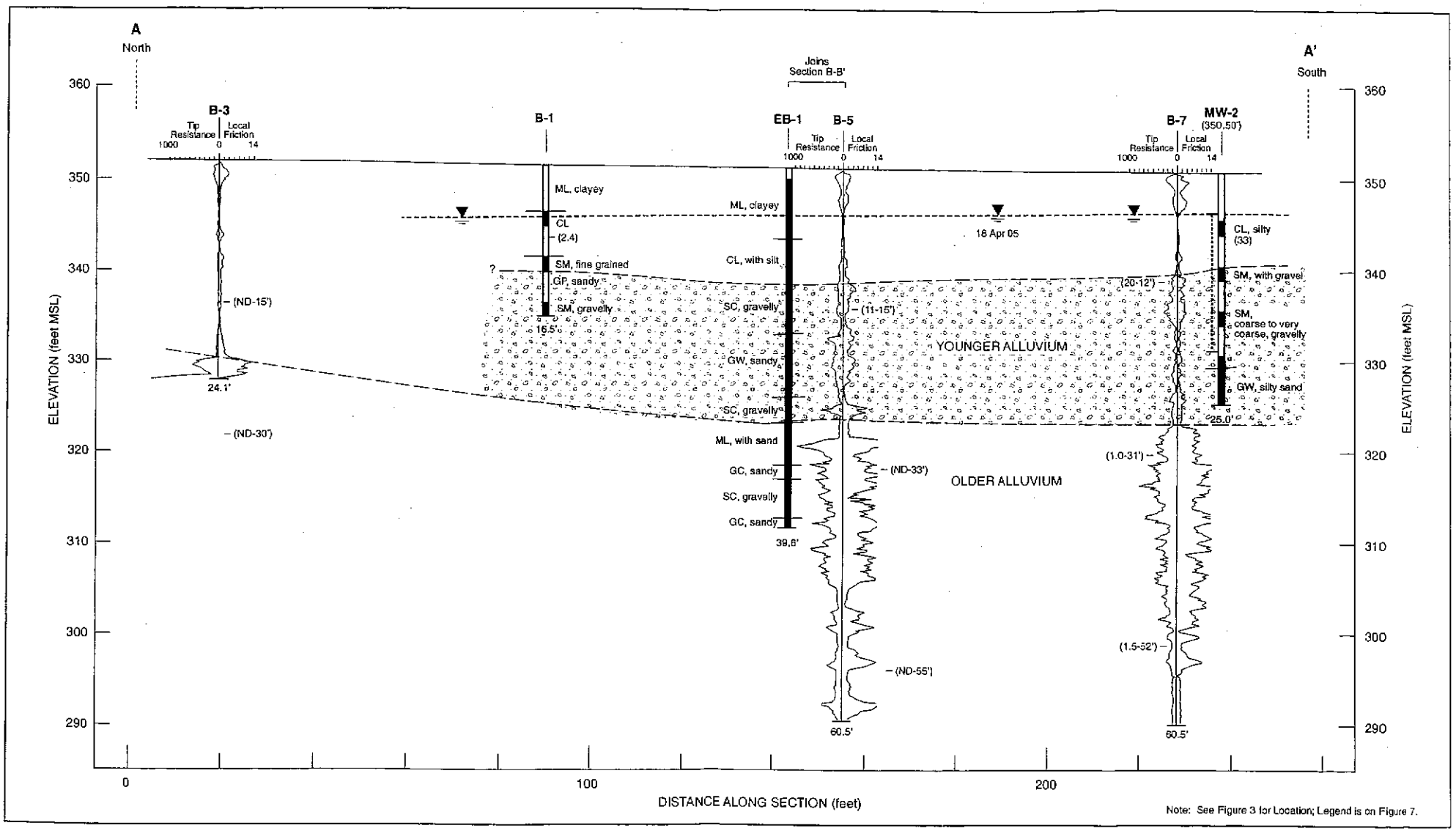
SITE MAP
with FHC Concentrations and Cross-Section Locations

Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE 5

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, E.J. VandenBosch	February 2001	April 2006	1 of 1

(TRACE #270/RIG/16Apr06)



Note: See Figure 3 for Location; Legend is on Figure 7.

0 50

Horizontal Scale (feet),
Vertical Exaggeration = 2X

(TRACE270FG12C05)

EDD CLARK & ASSOCIATES, INC.
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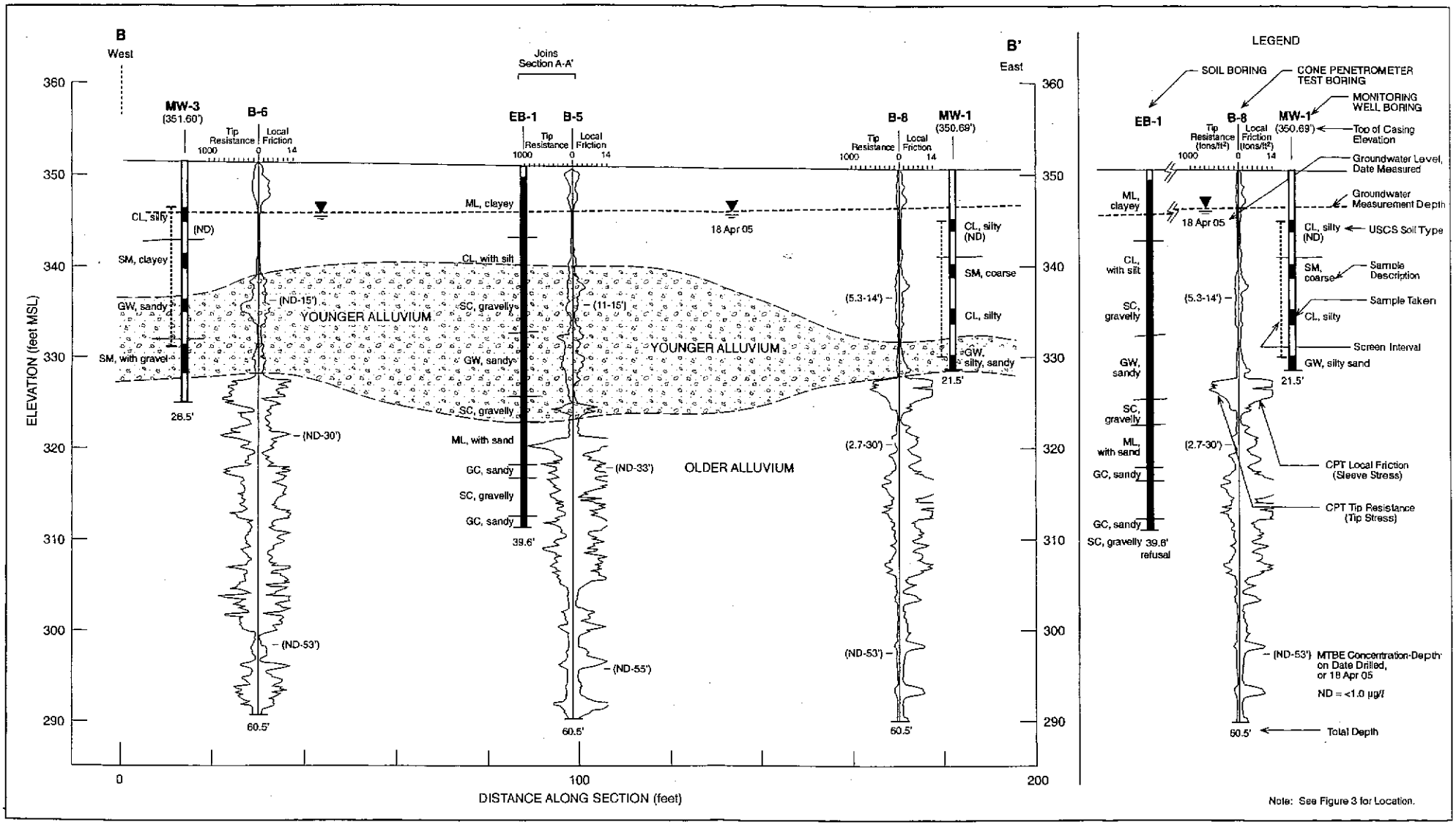
CROSS-SECTION A-A'
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
6

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
0358, 001.99	EC&A, Richard Ely	October 2005	



0 50

Horizontal Scale (feet),
Vertical Exaggeration = 2X

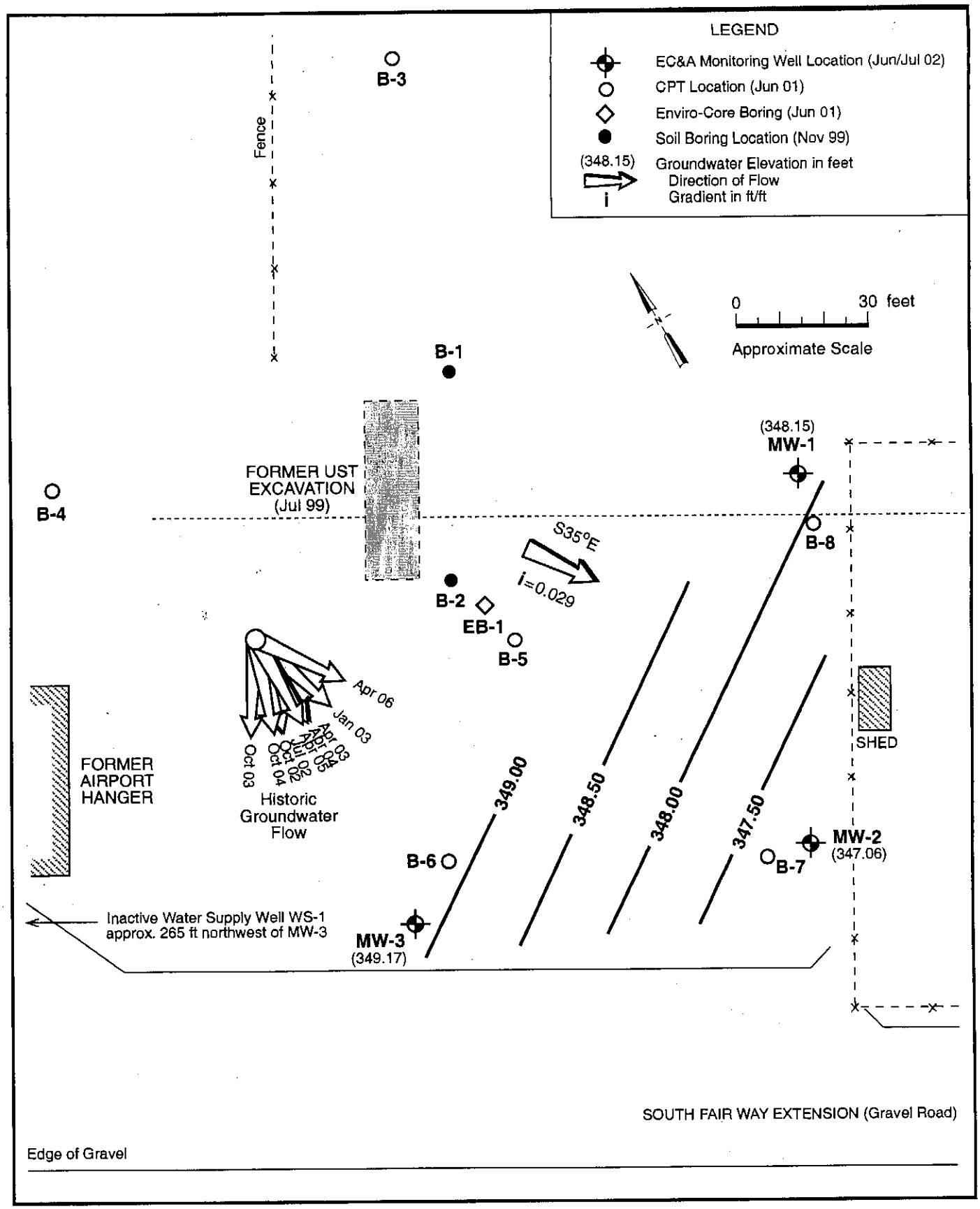
(TRACE#270/FG/14Oct05)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

CROSS-SECTION B-B'
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
7

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
0358, 001.99	EC&A, Richard Ely	October 2005	



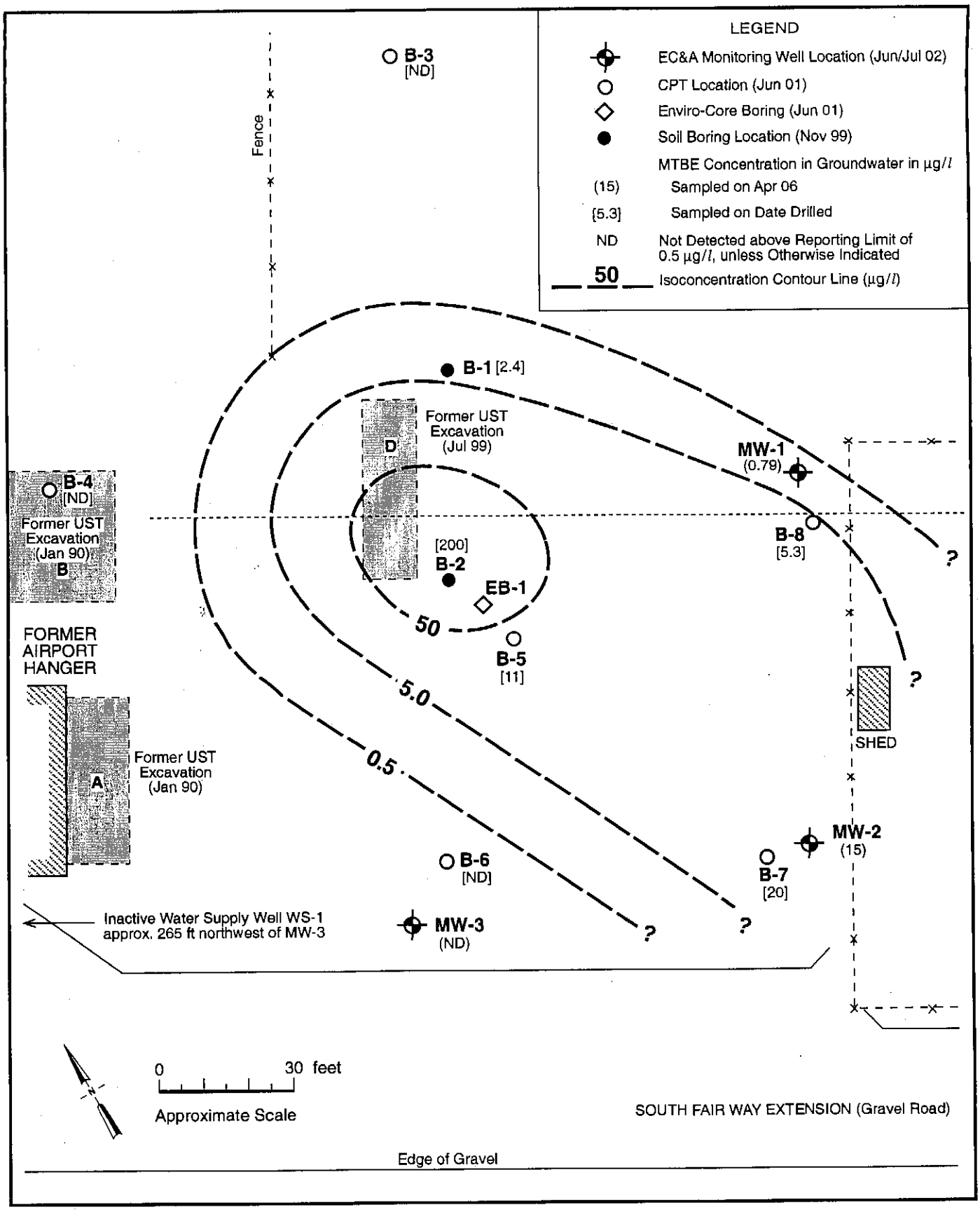
EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

GROUNDWATER ELEVATION MAP,
03 April 2006
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
8

(TRACE #270/RG/16Apr06)

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, E.J. VandenBosch	February 2001	April 2006	1 of 1



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

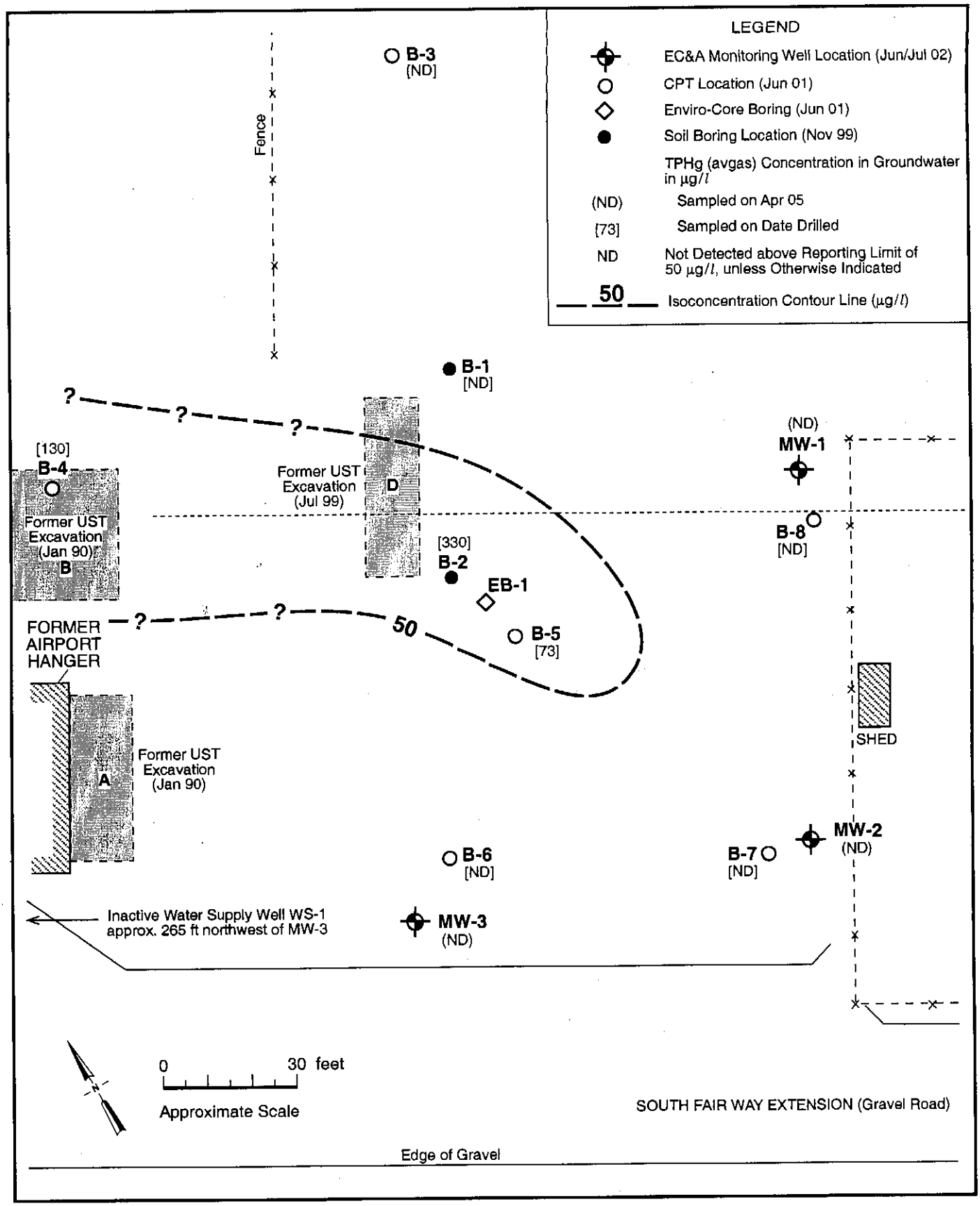
ISOCONCENTRATION CONTOUR MAP of MTBE in Shallow Groundwater

Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE 9

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, Richard Ely	February 2001	April 2006	1 of 1

(TRACE #270/RG/16Apr06)



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

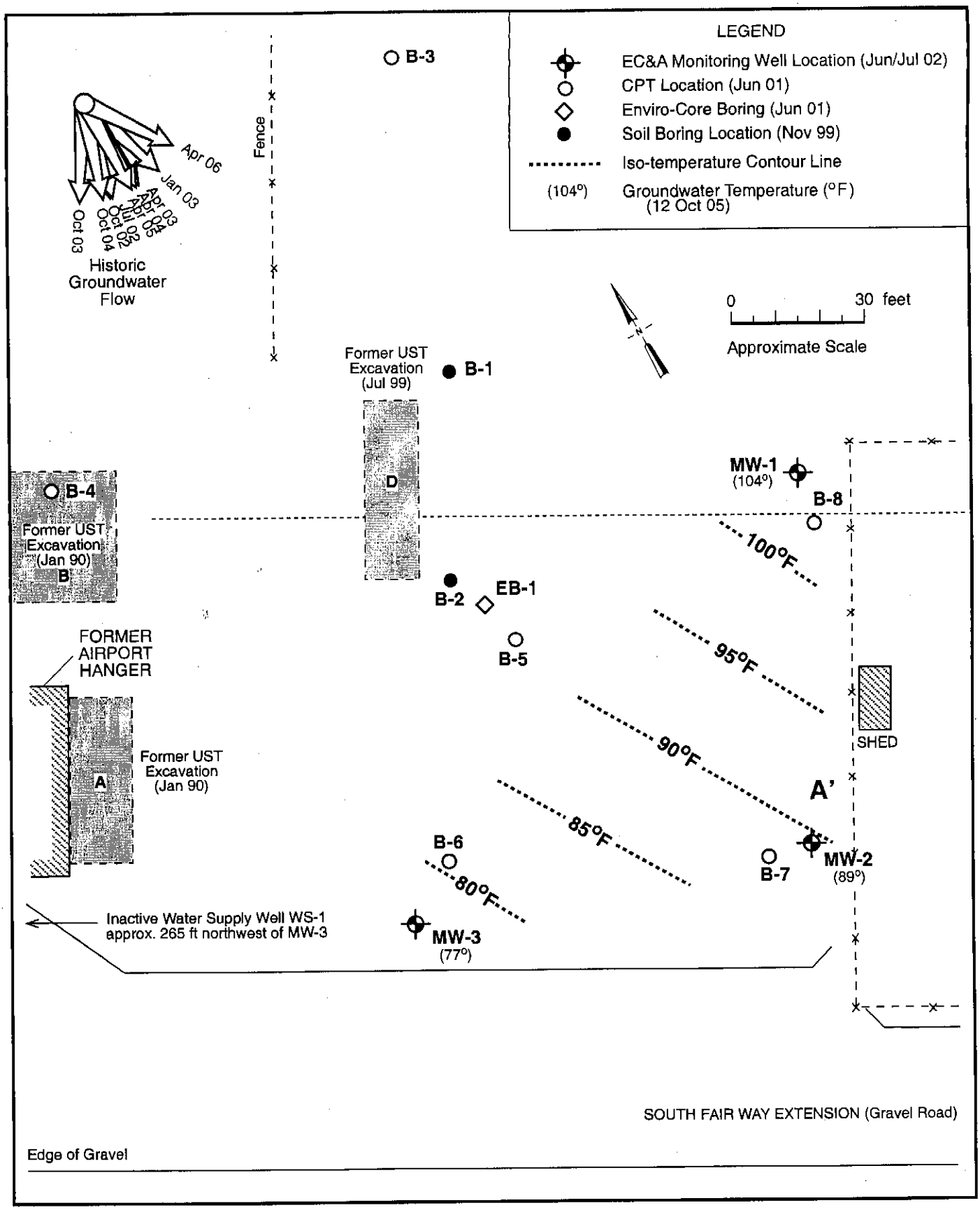
ISOCONCENTRATION CONTOUR MAP
of TPHg (avgas) in Shallow Groundwater

Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
10

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, Richard Ely	February 2001	October 2005	1 of 1

(TRACE #270/RG/14Oct05)



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

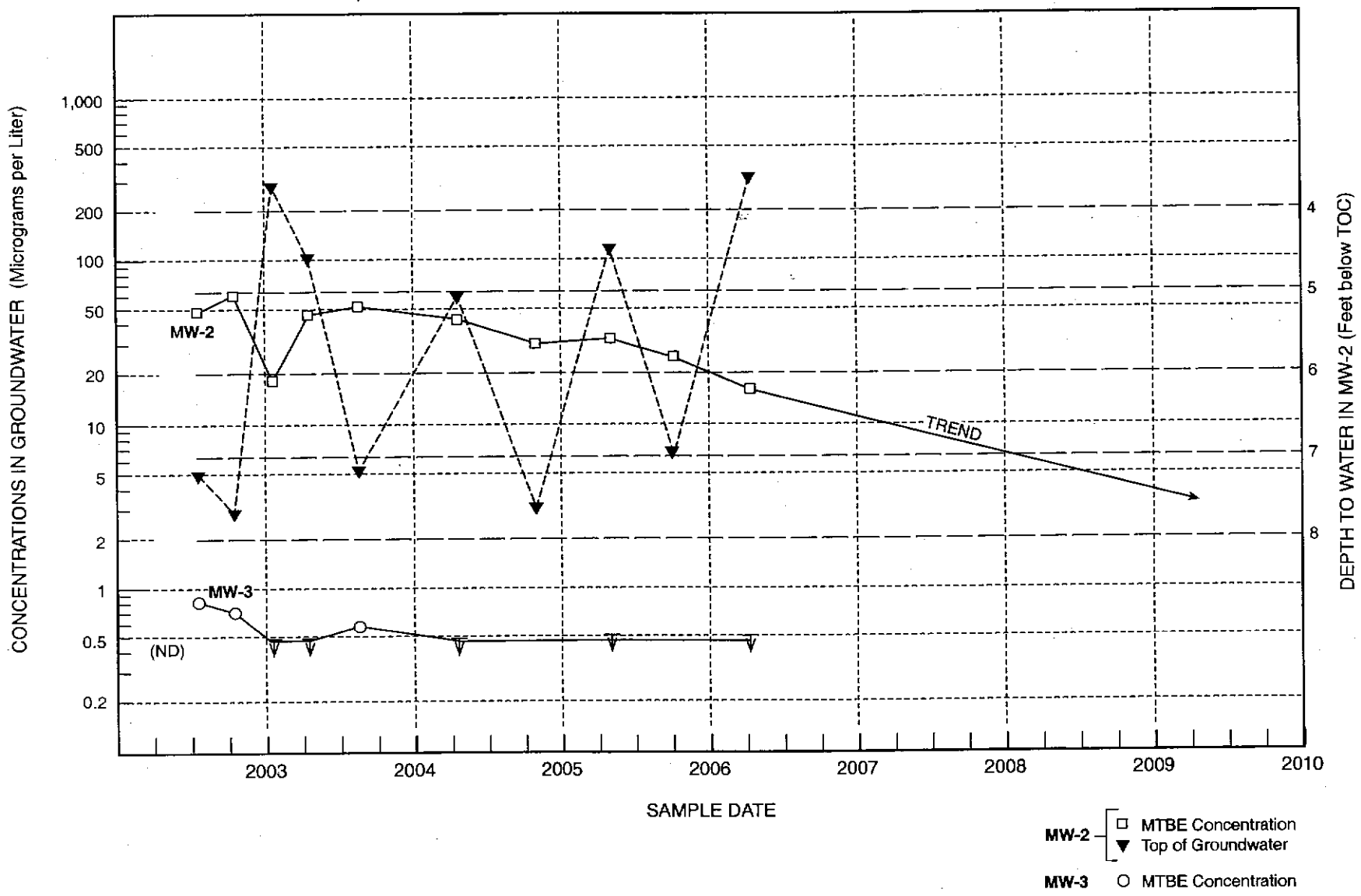
TEMPERATURE GRADIENT MAP

Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
11

(TRACE #270/RG/16Apr06)

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, Richard Ely	February 2001	April 2006	1 of 1



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

TIME SERIES GRAPH OF MTBE CONCENTRATIONS

Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
12

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0358,001.99	EC&A, Richard Ely	October 2005	April 2006	1 of 1

(TRACE #270/RG/16Apr06)

Table 1. Groundwater Elevation Data
1546 Lincoln Avenue, Calistoga, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	07/23/02	350.69	7.16	343.53
MW-2	07/23/02	350.50	7.16	343.34
MW-3	07/23/02	351.60	8.24	343.36
Gradient: S14°W at 0.0023 ft/ft				
MW-1	10/11/02	350.69	7.63	343.06
MW-2	10/11/02	350.50	7.67	342.83
MW-3	10/11/02	351.60	8.75	342.85
Gradient: S14°W at 0.0029 ft/ft				
MW-1	01/02/03	350.69	3.75	346.94
MW-2	01/02/03	350.50	3.66	346.84
MW-3	01/02/03	351.60	4.66	346.94
Gradient: S19°W at 0.0018 ft/ft				
MW-1	04/09/03	350.69	4.55	346.14
MW-2	04/09/03	350.50	4.53	345.97
MW-3	04/09/03	351.60	5.55	346.05
Gradient: S03°E at 0.0024 ft/ft				
MW-1	10/20/03	350.69	7.17	343.52
MW-2	10/20/03	350.50	7.16	343.34
MW-3	10/20/03	351.60	8.31	343.29
Gradient: S34°W at 0.0022 ft/ft				
MW-1	04/16/04	350.69	5.08	345.61
MW-2	04/16/04	350.50	5.02	345.48
MW-3	04/16/04	351.60	6.07	345.53
Gradient: S02°E at 0.0018 ft/ft				

Table 1. Groundwater Elevation Data
1546 Lincoln Avenue, Calistoga, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	10/12/04	350.69	7.59	343.10
MW-2	10/12/04	350.50	7.63	342.87
MW-3	10/12/04	351.60	8.71	342.89
Gradient: S20°W at 0.003 ft/ft				
MW-1	04/18/05	350.69	4.49	346.20
MW-2	04/18/05	350.50	4.43	346.07
MW-3	04/18/05	351.60	5.48	346.12
Gradient: Due south at 0.0017 ft/ft				
MW-1	10/12/05	350.69	7.06	343.63
MW-2	10/12/05	350.50	6.98	343.52
MW-3	10/12/05	351.60	8.15	343.45
Gradient: S55°W at 0.0014 ft/ft				
MW-1	04/03/06	350.69	2.54	348.15
MW-2	04/03/06	350.50	3.44	347.06
MW-3	04/03/06	351.60	2.43	349.17
Gradient: S35°E at 0.029 ft/ft				

TOC: Top of casing elevation measured relative to mean sea level (msl)
DTW: Depth to water from TOC

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	DTW ft bgs	TPHg µg/l	TPHg (av gas) µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	EDB µg/l	1,2-DCA µg/l
MW-1 †	07/23/02	7.16	NA	ND<50	ND<0.5	0.92	ND<0.5	1.9	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/11/02	7.63	ND<50	ND<50	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	NA	NA
	01/02/03	3.75	NA	ND<50	ND<0.5	0.53	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/09/03	4.55	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/20/03	7.17	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/16/04	5.08	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	4.49	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/03/06	2.54	NA	NA	NA	NA	NA	NA	0.79	ND<5.0 *	ND<0.5	ND<0.5
MW-2	07/23/02	7.16	NA	ND<50	ND<0.5	0.84	ND<0.5	2.0	49	ND<5.0 *	ND<0.5	ND<0.5
	10/11/02	7.67	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	66	ND<10 *	NA	NA
	01/02/03	3.66	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<5.0 *	ND<0.5	ND<0.5
	04/09/03	4.53	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	ND<12 *	ND<1.2	ND<1.2
	10/20/03	7.16	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	54	ND<10 *	ND<1.0	ND<1.0
	04/16/04	5.02	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46	5.1 *	ND<0.5	ND<0.5
	10/12/04 [1]	7.63	~~200~~	~~87~~	~~4.9~~	~~29~~	~~8.0~~	~~30~~	~~22~~	~~ND<5.0 *~~	~~ND<0.5~~	~~ND<0.5~~
	10/28/04 [2]	7.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	31	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	4.43	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	33	ND<5.0*	ND<0.5	ND<0.5
	10/12/05	6.98	NA	NA	NA	NA	NA	NA	26	ND<5.0 *	ND<0.5	ND<0.5
	04/03/06	3.44	NA	NA	NA	NA	NA	NA	15	ND<5.0 *	ND<0.5	ND<0.5

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	DTW ft bgs	TPHg µg/l	TPHg (av gas) µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	EDB µg/l	1,2-DCA µg/l
MW-3 †	07/23/02	8.24	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	1.4	0.83	5.1 *	ND<0.5	ND<0.5
	10/11/02	8.75	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<5.0 *	NA	NA
	01/02/03	4.66	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/09/03	5.55	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/20/03	8.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<5.0 *	ND<0.5	ND<0.5
	04/16/04	6.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	5.48	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/03/06	2.43	NA	NA	NA	NA	NA	NA	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5

DTW: Depth to water below top of casing in feet below ground surface (ft bgs)
TPHg: Total petroleum hydrocarbons as gasoline
(av gas): TPHg as aviation gas
MTBE: Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
TBA: T-butyl alcohol
EDB: Ethylene dibromide
1,2-DCA: 1,2-dichloroethane
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
NA: Not analyzed
†: Wells MW-1 and MW-3 are sampled annually during seasonally high groundwater levels.
*: Gasoline oxygenates other than MTBE were not detected above their respective reporting limits unless otherwise noted
1: Because of positive detections for TPHg, TPH(av gas) and BTEX in the samples collected from MW-2 on 10/12/04, a confirmation sample was collected on 10/28/04. Prior to the October 12, 2004 sampling event, these analytes have not been detected in MW-2.
2: Confirmation sample

Table 3. Analytical Results - Groundwater Samples From Domestic Well 1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	TPHg µg/l	TPHg (av gas) µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE* µg/l	EDB µg/l	1,2-DCA µg/l
WS-1	06/26/01	ND<50	NA	89 [g]	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<1.0
	07/25/02 [1]	61 [m,h]	NA	16,000 [e,h]	ND	ND	0.57	0.80	ND<2.5	ND<2.5	ND<2.5
	10/11/02	ND<50	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
	01/02/03[2]	NA	87 [m]	19,000 [b,g] **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/09/03[2]	68	ND<50	770 [g,b] **	ND<0.5	0.72	0.54	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/20/03	ND<50	ND<50	74 [b] **	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/16/04	ND<50	ND<50	ND<50 **	ND<0.5	5.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/12/04	ND<50	ND<50	ND<50 **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/18/05	ND<50	ND<50	ND<50 **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/12/05	NA	NA	ND<50 **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5
	04/03/06	NA	NA	ND<50 **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

TPHg: Total petroleum hydrocarbons as gasoline
(av gas): TPHg as aviation gas
TPHd: Total petroleum hydrocarbons as diesel
MTBE: Methyl tert-butyl ether; analyzed by EPA Method 8260 unless noted otherwise
EDB: Ethylene dibromide (1,2-dibromoethane)
1,2-DCA: 1,2-dichloroethane
µg/l: Micrograms per liter
ND: Not detected above the respective reporting limit
NA: Not analyzed
b: Diesel range compounds are significant; no recognizable pattern
e: Unknown medium boiling point pattern that does not appear to be derived from diesel (corn oil?)
g: Oil range compounds are significant
h: Lighter than water immiscible sheen/product is present
m: No recognizable pattern
*: Other gasoline oxygenates were not detected above their respective reporting limits, with the exception of 1600 µg/l ethanol for the sample collected on July 25, 2002
**: TPHd analysis with silica gel clean-up
1: Approximately 2.5 gallons of vegetable oil and pieces of cooked food were removed from the top of the water in this well. A fuel fingerprint was run on the sample of the oil product collected from WS-1 by EPA Method 8015m. MAI described the oil product sample from WS-1 as having a similar pattern to various vegetable oils; the chromatogram of the oil product is a close match to the corn oil standard.
2: MAI described the TPHd results as having a similar pattern to various vegetable oils; the chromatogram is a close match to the corn oil standard.

Table 4. Analytical Results - UST Removal Soil and Water Samples
1546 Lincoln Avenue, Calistoga, California

Sample ID	Date Sampled	TPHg	TPHg (av gas)	TPHd	MTBE*	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Lead
Soil Samples - Results Reported in mg/kg										
S1-E	07/19/99	NA	ND<1.0	NA	ND<5.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	8.2
S2-W	07/19/99	NA	ND<1.0	NA	ND<5.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	4.7
SP-1 (1)	07/19/99	NA	2.7 [e]	NA	ND<5.0	ND<0.005	0.10	ND<0.005	ND<0.005	5.7
S-1-4 (2)	07/20/99	NA	1.9 [a]	NA	ND<5.0	0.033	0.056	0.055	0.17	57
SP-1 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	34
SP-2 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	0.012	ND<0.005	0.0097	66
SP-3 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	51
SP-4 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	51
SP-5 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	0.0060	0.0055	ND<0.005	0.0075	93
SP-6 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	15
SP-7 (2)	11/07/03	ND<1.0	ND<1.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	25
Water Sample - Results Reported in µg/l										
EP-W	07/19/99	NA	100 [e]	NA	5.9	ND<0.5	5.1	1.2	ND<0.5	0.058

TPHg: Total petroleum hydrocarbons as gasoline
TPHg (av gas): Total petroleum hydrocarbons as gasoline (aviation fuel)
TPHd: Total petroleum hydrocarbons as diesel
MTBE: Methyl tert-butyl ether
mg/kg: Milligrams per kilogram
µg/kg: Micrograms per kilogram
µg/l: Micrograms per liter
NA: Not analyzed
ND: Not detected above the respective reporting limit

a: Unmodified or weakly modified gasoline is significant
e: TPH pattern that does not appear to be derived from gasoline (aviation fuel?)
*: MTBE and other gasoline oxygenates analyzed by Method 8260; other gasoline oxygenates were not detected above their respective reporting limits
(1): Avgas UST stockpile (Stockpile #2)
(2): January 1990 stockpile (Stockpile #3)

Table 5. Analytical Results - Soil Samples From Borings
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Depth ft bgs	TPHg (av gas) mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Xylenes mg/kg	Total Lead mg/kg
November 30, 1999								
B-1	10.5 - 11.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	9.1
B-1	15.5 - 16.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	12
B-2	10.5 - 11.0	ND<1.0	ND<0.05	ND<0.005	0.040	ND<0.005	ND<0.005	8.3
June 14, 2002 & July 2, 2002								
MW-1	6.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA
MW-1	11.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA
MW-2	6.0	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA
MW-2	10.5	ND<1.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005	NA
MW-3	6.0	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA
MW-3	10.5	ND<1.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	NA

TPHg(avgas): Total petroleum hydrocarbons as gasoline (aviation fuel)
MTBE: Methyl tert-butyl ether; analyzed by EPA Method 8020 unless noted otherwise
mg/kg: Milligrams per kilogram
ft bgs: Feet below ground surface
ND: Not detected above the respective reporting limit
NA: Not analyzed

MW-1 and MW-2 were installed on June 14, 2002; MW-3 was installed on July 2, 2002.

Table 6. Analytical Results -Grab-groundwater Samples From Soil Boring 1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Depth ft bgs	TPHg µg/l	MTBE* µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	EDB µg/l	1,2-DCA µg/l
November 30, 1999									
B-1 (1)		ND<50 [i]	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0 [i]	ND<1.0
B-2 (1)		330 [c,i]	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5 [j,i]	ND<5.0
June 20 - 22, 2001									
B-3-15.0	15.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-3-30.0	30.0	ND<50	ND<1.0	0.86	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-4-15.0	15.0	130 [f]	ND<1.0	ND<0.5	8.0	ND<0.5	ND<0.5	NA	NA
B-4-33.0	33.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-4-43.0	43.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-5-16.0	16.0	73 [f]	11	ND<0.5	2.2	ND<0.5	ND<0.5	NA	NA
B-5-33.0	33.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-5-55.0	55.0	ND<50	ND<1.0	0.85	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-6-15.0	15.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-6-30.0	30.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-6-53.0	53.0	ND<50	ND<1.0	ND<0.5	0.81	ND<0.5	ND<0.5	NA	NA
B-7-12.0	12.0	ND<50	20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-7-31.0	31.0	ND<50	1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-7-52.0	52.0	ND<50	1.5	1.2	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-8-14.0	14.0	ND<50	5.3	ND<0.5	1.7	ND<0.5	ND<0.5	NA	NA
B-8-30.0	30.0	ND<50	2.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
B-8-53.0	53.0	ND<50	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA

TPHg: Total petroleum hydrocarbons as gasoline (aviation fuel)
MTBE: Methyl tert-butyl ether; analyzed by EPA Method 8260
EDB: Ethylene dibromide
1,2-DCA: 1,2-dichloroethane
ft bgs: Feet below ground surface
µg/l: Micrograms per liter
ND: Not detected above the respective reporting limit
NA: Not analyzed

(1): Samples were also analyzed for dissolved lead; results were ND<0.005 milligrams per liter
c: Lighter gasoline range compounds (the most mobile fraction) are significant
f: One to a few isolated peaks present
i: Liquid sample that contains greater than ~5 vol. % sediment
j: Sample diluted due to high organic content
*: Other gasoline oxygenates were not detected above their respective reporting limits

Table 7. Groundwater Quality Data
1546 Lincoln Avenue, Calistoga, California

Well ID	Date	DTW feet	Temperature (°F)	Electrical Conductivity (µS/cm)	TDS (ppm)
MW-1	07/23/02	7.16	105	2227	1461
MW-2	07/23/02	7.16	87.7	2937	1956
MW-3	07/23/02	8.24	76.1	1111	745
MW-1	10/11/02	7.63	108	2036	1330
MW-2	10/11/02	7.67	89.7	3781	2519
MW-3	10/11/02	8.75	77.0	1102	738
MW-1	01/02/03	3.75	90.5	4090	2725
MW-1	04/09/03	4.55	102	4250	2820
MW-2	04/09/03	4.53	87.1	3810	2542
MW-3	04/09/03	5.55	78.1	1190	796
MW-1	10/20/03	7.17	110	2134	1393
MW-2	10/20/03	7.16	92.4	3370	2241
MW-3	10/20/03	8.31	78.4	997	666
MM-2	10/28/04	7.68	92.6	3391	2255
MW-1	04/16/04	5.08	105	3644	2411
MW-2	04/16/04	5.02	88.8	3574	2382
MW-3	04/16/04	6.07	76.8	1140	764
MW-2	10/12/04	7.63	92.7	3368	2239
MW-1	04/18/05	4.49	104	3595	2379
MW-2	04/18/05	4.43	89.4	3549	2364
MW-3	04/18/05	5.48	77.4	1318	883
MW-2	10/12/05	6.98	91.1	5230	3489
WS-1	10/12/05	NM	120.3	1850	1192
MW-1	04/03/06	2.54	79.9	3660	2449
MW-2	04/03/06	3.44	68.5	1057	708
MW-3	04/03/06	2.43	72.3	3610	2419

Notes

DTW:	Depth to water from top of casing
µS/cm:	MicroSiemens per centimeter
ppm:	Parts per million
TDS:	Total dissolved solids = µS/cm value times 0.67, minus the temperature correction
NM:	Not measured

Temperature correction = -1.1% per °F above 77° F (2% per °C)

APPENDIX A

Table SRS: Sensitive Receptor Survey Results

Table SRS. Sensitive Receptor Survey Well Survey Results
Calistoga Glider Port, 1546 Lincoln Avenue, Calistoga, California

Napa LOP Number	Street Address	Owner	Location Township/ Range	Well Depth (feet)	Well Diameter	Type of Well	Well Status (if known)
	1475 1st St.	Sam Finegold	9N/7W-36R	210	8"	Domestic	
011-101-001	960 29th Ave.	Napa Springs Bottling Co.	NA	207	8 5/8"	Industrial	
	1428 3rd St.	Louie Della Santina	9N/7W-36	38	8"	Domestic/ Irrigation	
011-041-001	1736 Adele Ave.	William Laskutoff	9N/7W-36H	40	6"	Domestic	
011-044-012	1740 Adele Ave.	Angelo Molinari	9N/7W-36H	30	6"	Domestic	
011-03-018	1705 Adelle St.	Alex Mitrovich	9N/7W-36H	29	6 5/8"	Domestic	
11-060-04	142 Bella Vista	Earl Brown	9N/7W-36	65	6-5/8"	Domestic/ Irrigation	
NR	1327 Berry St.	Calistoga Unified School District	9N/7W-36R	240	10"	Geothermal	
011-050-015	53 Brannan St.	Howard & Carolynne Clair	9N/6W-31	50	6"	Domestic	
011-173-005	1618 Cedar St.	Jack Vossler	09N07W36Q	100	6"	Domestic	
11-171-16	1635 Chealsea Rd.	Casa Blanca Convalescent Home	09N07W36	100	6"	Domestic	
	Corner Washington & Earl St.	John Bernard	8N/6W-6D	225	8"	Domestic	
11-101-001	Corner Stevenson & Grant Streets	Napa Springs Bottling Co.	9N/7W-36J	207	8-5/8"	Industrial	
011-032-3	1148 Denise Way	Fred Prichart	09N07W36	55	6"	Domestic	
11-032-03	1148 Denise Way	Fred Pritchard	9N/7W-36	240	6"	Domestic	

Table SRS. Sensitive Receptor Survey Well Survey Results
Calistoga Glider Port, 1546 Lincoln Avenue, Calistoga, California

Napa LOP Number	Street Address	Owner	Location Township/ Range	Well Depth (feet)	Well Diameter	Type of Well	Well Status (if known)
	East end of Spring St.	City of Calistoga	08N07W01	Not complete			
011-201-002	1601 Fairway Dr.	James Woodson	09N07W36	56	6"	Domestic	
011-091-014	1514 Fairway	Mark Thomas	09N07W36	50	8"	Domestic	
	1908 Fairway	John Yakovleff	9N/7W-36	334	6-5/8"	Domestic	
11-290-28	1510 Filmore St.	Ken Siler	8N/7W-1	395	6"	Domestic	
11-050-04	631 First St.	Lawrence Simons, Peter VanZandt	9N/6W-31M	220	6"	Domestic	
	1418 Franklin St.	Joe Neves	9N/7W-36R	172	6-5/8"	Domestic	
	Grant St.	Cavaison Inc.	9N/7W-36	143	6-5/8"	Irrigation	
11-154-06	1907 Grant St.	Laverne Cyarzo	09N07W36K	60	6-5/8"	Domestic	
	2565 Grant St.	Cuavaison Inc.	9N/7W-36	200	9-7/8"	Irrigation	
	2315 Grant St.	Roy Lally	9N/7W-36	29	8-5/8"	Domestic/ Irrigation	
011-043-035	1802 Grant St.	Tony Vargas	9N/7W-36	50	NA	Irrigation	
	2787 Grant St.	Claude Garayalde	9N/7W-36	30	6"	Irrigation	
11-010-20	Grant St.	Paul Coates	09N07W36	232	6"	Domestic	
011-010-029	Grant St.	Paul Coates	09N07W36J	252	6"	Domestic	
011-010-29	Grant St.	Paul Coates	09N07W36	245	6"	Domestic	
11-021-15	2320 Grant St.	Bruce Dill	9N/7W-36	110	6"	Domestic	
11-010-29	Grant St.	Paul Coates	09N07W36	248	6"	Domestic	

Table SRS. Sensitive Receptor Survey Well Survey Results
Calistoga Glider Port, 1546 Lincoln Avenue, Calistoga, California

Napa LOP Number	Street Address	Owner	Location Township/ Range	Well Depth (feet)	Well Diameter	Type of Well	Well Status (if known)
11-031015	2046 Grant St.	Walter Tamagni	9N/7W-36	180	6"	Domestic	
011-031-015	2046 Grant St.	Walt Tamagni	09N07W36	60	6"	Domestic/ Irrigation	
011-101-001	1506 Grant St.	Napa Valley Springs Mineral	09N07W36J	295	8-5/8"	Industrial	
011-072-001	1514 Grant St.	Tatiana Trankowsky	9N/7W-36J	193	6"	Domestic	
011-156-001	1604 Hably St.	Kendall McCunde	9N/7W-36K	50	8"	Domestic	
	1713 Lake St.	Guistos Golden Haven	9N/7W-36	70	8"	Irrigation	
011-092-30,31	1608 Lake St.	Calistoga Joint Unified School District	9N/7W-36	350	14"	Geothermal	Active
011-010-039	Lake St. & Hwy. 29	Dr. & Mrs. Julius Muray	9N/7W-36H	105	6"	Domestic	
011-160-021	1409 Lake St.	Alex Hawrisch	9N/7W-36Q	90	8-3/4"	Domestic	
011-042-046	1713 Lake St.	Matt Guisto	9N/7W-36	340	8 5/8"	Other	
011-061-007	1834 Lake St.	Shefki Citaku	9N/7W-36	45	8"	Domestic/Irrigation	
011-010-039	Lake St. & Hwy. 29	Dr. & Mrs. Julius Muray	9N/7W-36H	60	NA	Domestic	
111-205-006	1834 Lake St.	Shefki Citaku	09N07W36	45	8"	Domestic/ Irrigation	
011-043-031	1713 Lake St.	Guistos Golden Haven	9N/7W-36	70	NA	Irrigation	
	1713 Lake St.	Mathew Guistos	9N/7W-36	100	8"	Irrigation	

le SRS. Sensitive Receptor Survey Well Survey Results
Calistoga Glider Port, 1546 Lincoln Avenue, Calistoga, California

Napa LOP Number	Street Address	Owner	Location Township/ Range	Well Depth (feet)	Well Diameter	Type of Well	Well Status (if known)
1-010-035	Lake St. & Hwy 29	Frank Turner Construction Co.	9N/7W-36	108	8"	Domestic	
1-061-08	1842 Lake St.	Barbaro Flores	9N/7W-36H	31	6 5/8"	Irrigation	
1-061-011	1850 Lake St.	Flynn	9N/7W-36H	80	8 5/8"	Domestic Irrigation	
1-201-013	1402 Lake St.	Mrs. Pocai	09N07W36Q	62	8"	Domestic	
1-010-007	Lake St. & Hwy. 29	Dr. & Mrs. Julius Muray	9N/7W-36H	75	6 5/8"	Irrigation	
1-043-017	1837 Lake St.	Vera Grundel	9N/7W-36H	48	8"	Domestic	
1-043-017	1837 Lake St.	Vera Grundel	9N/7W-36H	220	8"	Domestic	
-360-07	1348C Lincoln Ave.	Ben Bollag	08N07W01	438	5"	Domestic	
	1125 Lincoln Ave.	John Manley	9N/7W-36	30	6-5/8"	Domestic/ Irrigation	
-340-17	1348C Lincoln Ave.	Bill Gerhard	09N06W31	249	8-5/8"	Domestic	
	1320 Lincoln Ave.	Milton M. Peterson	9N/7W-36	160	8"	Domestic	
-092-12	1507 Lincoln Ave.	John Wilkinson	8N/7W-1	49	6"	Domestic	
0-060-004	154 Main St.	Thompson, Bolin & Mahorney	08N07W01	330	6"	Domestic	
-032-7	1714 Michael Way	Mr. Carmody	09N07W36	190	6"	Domestic	
-390-14	1717 Michael Way	Frank Turner	9N/7W-36	170	6"	Domestic	
-031-11	1713 Michael St.	Paul Roux	9N/7W-36	50	6-5/8"	Domestic	

alistoga, California

ner	Location Township/ Range	Well Depth (feet)	Well Diameter	Type of Well	Well Status (if known)
e	09N07W36	102	6	Domestic	
	9N/7W-36	80	6"	Domestic	
	9N/7W-36	200	6"	Domestic	
	09N07W36	69	8"	Domestic/ Irrigation	
	9N/7W-36	26 ½	8-5/8"	Domestic/ Irrigation	
	9N/7W-36	25	8-5/8"	Domestic/ Irrigation	
	09N07W36	60	6-5/8"	Domestic	
	9N/6W-31M	220	12 1/4"	Domestic	Active
		437	8"	Domestic/ Irrigation	
	09N07W36R	72	6"	Domestic	
	9N/7W-36H	215	8"	Domestic	
	9N/6W-31	118	10"	Domestic	
	9N/7W-36H	215	8"	Domestic	Active
	9N/6W-31	243	8 3/4"	Domestic	
	9/7-36	Abandon			

Edd Clark & Associates, Inc.
Environmental Consultants

June 28, 2005
Job No.: 0358,001.99

Patricia Merchant
1712 Lincoln Avenue
Calistoga, CA 94515

Groundwater Monitoring Report - April 2005 Event
Former UST Site
Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California
Napa County Site LOP-345

Dear Ms. Merchant:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) report on the April 18, 2005 groundwater monitoring activities completed at 1546 Lincoln Avenue (site) in Calistoga, California (Figure 1). Groundwater monitoring is being conducted at the site at the request of the Napa County Department of Environmental Management (NCDEM) to evaluate the groundwater-flow direction and monitor changes in methyl tert-butyl ether (MTBE) concentrations over time. In their letter dated July 22, 2004, the NCDEM concurred with EC&A's recommendation to collect groundwater samples from MW-2 and inactive water well WS-1 semi-annually during seasonally high and low water levels, and from MW-1 and MW-3 annually during seasonally high water levels. Groundwater monitoring activities for the April 2005 event included measuring the depth to groundwater (DTW) in monitoring wells MW-1, MW-2 and MW-3; collecting groundwater samples for chemical analyses from MW-1, MW-2, MW-3 and inactive water well WS-1 (Figure 2); calculating groundwater-flow direction and gradient; evaluating the results of the analyses and calculations; and preparing this report. A copy of this report will be sent to the NCDEM for their review.

Water-level Measurements
On April 18, 2005, EC&A personnel measured DTW in MW-1, MW-2 and MW-3. DTW below the top of the well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter. The meter was cleaned and rinsed prior to taking measurements in each well. DTW was recorded after the well caps were removed and groundwater in the wells was allowed to equilibrate for a minimum of 15 minutes. DTW in MW-1, MW-2 and MW-3 was 4.49 ft, 4.43 ft and 5.48 ft, respectively; the calculated groundwater-flow direction and gradient were due south and 0.0017 ft/ft, respectively (Table 1 and Figure 2).

Groundwater Field Logs containing water level data are in Appendix A. DTW measurements will be electronically submitted to the State GeoTracker Internet Database.

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
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corpmail@ecaenviron.com

Monitoring Well Groundwater Sampling Procedures
On April 18, 2005, EC&A personnel collected groundwater samples from MW-1, MW-2 and MW-3. Prior to collecting the samples, the wells were purged with a submersible pump. Three well-casing volumes of groundwater were removed from each well. The purged water was checked for the presence of free-floating product. Free-floating product was not observed on water purged from the wells. Groundwater pH, temperature and electric conductivity were recorded during purging at intervals of approximately one well-casing volume. Groundwater samples were collected from the well after groundwater parameters stabilized and the groundwater level returned to a minimum of 80% of the initially recorded level. Purge volumes and groundwater quality parameters are recorded on the Field Logs in Appendix A.

The groundwater samples were collected in new single-sample, disposable bailers fitted with disposable bottom-emptying devices to minimize water degassing. The samples were transferred to properly labeled, laboratory-supplied, sterile sample containers, logged on a chain-of-custody form, placed on ice and transported to McCampbell Analytical, Inc. (MAI) for chemical analyses. MAI is a State-certified laboratory located in Pacheco, California.

Monitoring Well Groundwater Sample Analysis and Results
All groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g), TPH as aviation gas (av-gas) and benzene, toluene, ethylbenzene and xylenes (BTEX) by Methods SW8021B/8015Cm, and for MTBE and other gasoline oxygenates and the lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (1,2-DCA) by Method SW8260B.

The only analyte detected in samples collected for this event was MTBE at 33 micrograms per liter (µg/l) in MW-2.

Analytical results for monitoring well groundwater samples are presented in Table 2. A complete copy of the analytical laboratory report is in Appendix B. Groundwater sample results will be electronically submitted to the State GeoTracker Internet Database.

Water-supply Well Sampling Procedures
On April 18, 2005, EC&A personnel collected a groundwater sample from inactive water well WS-1, located behind the Palisades Market, approximately 265 ft northwest of MW-3. Ten gallons of groundwater were hand-bailed from the well before a water sample was collected. The sample was collected in a new single-sample, disposable bailer fitted with a bottom-emptying device, and then transferred to properly labeled, laboratory-supplied, sterile sample containers. The sample containers were placed on ice and transported under chain-of-custody control to MAI for the required chemical analyses.

Water-supply Well Sample Analysis and Analytical Results
The groundwater sample collected from WS-1 was analyzed for TPHg, TPH(av-gas), TPH as diesel (d) using silica gel cleanup, and BTEX by Methods SW8021B/8015Cm/8015C, and for MTBE and other gasoline oxygenates and the lead scavengers EDB and 1,2-DCA by Method SW8260B.

None of the analytes tested for were detected in the sample collected from WS-1 for this event. Analytical results for groundwater samples from the water well are presented in Table 3. A complete copy of the analytical laboratory report is in Appendix B. Groundwater sample results will be electronically submitted to the State GeoTracker Internet Database.

Decontamination Procedures
Sampling equipment was cleaned onsite with a trisodium phosphate solution and double rinsed with tap water. Decontamination water and monitoring well purge-water were placed in properly labeled DOT 17H 55-gallon drums for temporary, onsite storage.

Conclusions
Nine groundwater monitoring events have been completed for MW-2 and seven groundwater monitoring events have been completed for MW-1 and MW-3. The groundwater-flow direction has been consistently to the south-southwest. Review of the sample results from the nine monitoring events conducted to date show the groundwater plume consists primarily of MTBE at low concentrations, the plume appears to be stable and overall, MTBE concentrations are decreasing.

TPHg, TPH(av-gas), benzene, ethylbenzene and the lead scavengers EDB and 1,2-DCA have been non-detect (ND) in all the monitoring wells. Minor concentrations of toluene and/or xylenes have been detected in all the monitoring wells; however, these analytes have been below detection limits for the last five to seven sample events.

MTBE has consistently been detected in MW-2 ranging from 19 µg/l (January 2003) to 66 µg/l (October 2002). Comparison between the MTBE results from the April 2005 sample event and previous event in October 2004 shows that MTBE concentrations remained almost the same. In MW-3, MTBE has been detected three times at a maximum concentration of 0.83 µg/l (July 2002); however, it was below detection limits for the last two times it was sampled. TBA has been detected once in MW-2 at 5.1 µg/l (April 2004) and once in MW-3 at 5.1 µg/l (July 2002).

WS-1
WS-1 has been sampled nine times since June of 2001. As previously reported, 16,000 µg/l of TPHd was detected in WS-1 on July 25, 2002; however, MAI reported that the FHCs detected in the groundwater sample appeared to result from the waste cooking oil that entered the well. A fuel fingerprint was run on the sample of the oil product collected from WS-1 by Method 8015m. MAI described the oil product sample from WS-1 as having a similar pattern to various vegetable oils and that the chromatogram of the oil product was a close match to the corn oil standard. EC&A removed as much cooking oil as possible (approximately 2.5 gallons) from WS-1 on July 25, 2002, when it

was first observed, and during each subsequent sample event. Since the well vault and well head were secured in July 2002 to prevent further entry of waste cooking oil into the well, TPHd concentrations have declined to ND.

Concentrations of TPHg and/or TPH(av-gas) below 100 µg/l have been detected in groundwater collected from WS-1 in three of the nine sample events. In April 2005, TPHg and TPH(av-gas) were not detected in the sample from WS-1 and have not been detected for four and five consecutive sampling events, respectively. TPHd has not been detected in WS-1 for three consecutive sampling events. Except for minor concentrations of ethylbenzene and xylenes detected in July 2002, toluene and ethylbenzene detected in April 2003, and toluene in October 2003 and April 2004, BTEX and lead scavengers have not been detected in groundwater from WS-1. Additionally, fuel oxygenates including MTBE have not been detected in WS-1 with the exception of 1600 µg/l of ethanol detected in the sample from July 2002, which has been attributed to the waste cooking oil that entered the well and has since been removed.

Recommendations

EC&A recommends continued semi-annual monitoring of MW-2 and WS-1 during seasonally low and high groundwater tables and annual monitoring of MW-1 and MW-3 during seasonally high groundwater levels. For each event, the DTW should be measured in each monitoring well and the groundwater-flow direction and gradient calculated.

Groundwater samples collected from the wells should be analyzed for the seven fuel oxygenates and the lead scavengers EDB and 1,2-DCA by Method SW8260B. Samples from WS-1 should also be analyzed for TPHd using the silica gel cleanup method and BTEX. If TPHd is not detected in WS-1, EC&A will recommend that analysis for TPHd be discontinued.

Analysis for TPHg and TPH(av-gas) should be discontinued because these analytes have never been detected in site monitoring wells, and TPHg has not been detected in WS-1 for four consecutive monitoring events; TPH(av-gas) has not been detected in WS-1 for five consecutive monitoring events. Analysis for BTEX should be discontinued in the monitoring wells because these compounds have not been detected in four consecutive events in MW-1, seven consecutive events in MW-2, and six consecutive events in MW-3.

As previously recommended in the February 11, 2005 report of the October 2004 sampling event, a Corrective Action Plan/Feasibility Study (CAP/FS) to assess remedial options for the FHCs remaining in groundwater should be prepared. Given that the MTBE concentrations are low and appear to be decreasing, the CAP/FS may recommend closure with a fate & transport study and SRS information.

Schedule

The next sampling event is a semi-annual event and is scheduled for October 2005. Wells MW-2 and WS-1 will be sampled and analyzed for the seven fuel oxygenates and the lead scavengers EDB and 1,2-DCA by Method SW8260B; WS-1 will also be analyzed for BTEX and TPHd.

Limitations

The conclusions presented in this report are professional opinions based on the information presented herein, which includes data generated by others. Whereas EC&A does not guarantee the accuracy of data supplied by third parties, we reserve the right to use this data in formulating our professional opinions. This report is intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. In addition, changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A the opportunity to provide environmental services for you. Please call John Calomiris, project manager, if you have any questions.

Sincerely,

Etta Jon VandenBosch
Environmental Scientist

Richard Ely, RG #4137
Senior Geologist

REGISTERED GEOLOGIST
RICHARD W. ELY
No. 4137
Exp. 8/31/05
STATE OF CALIFORNIA

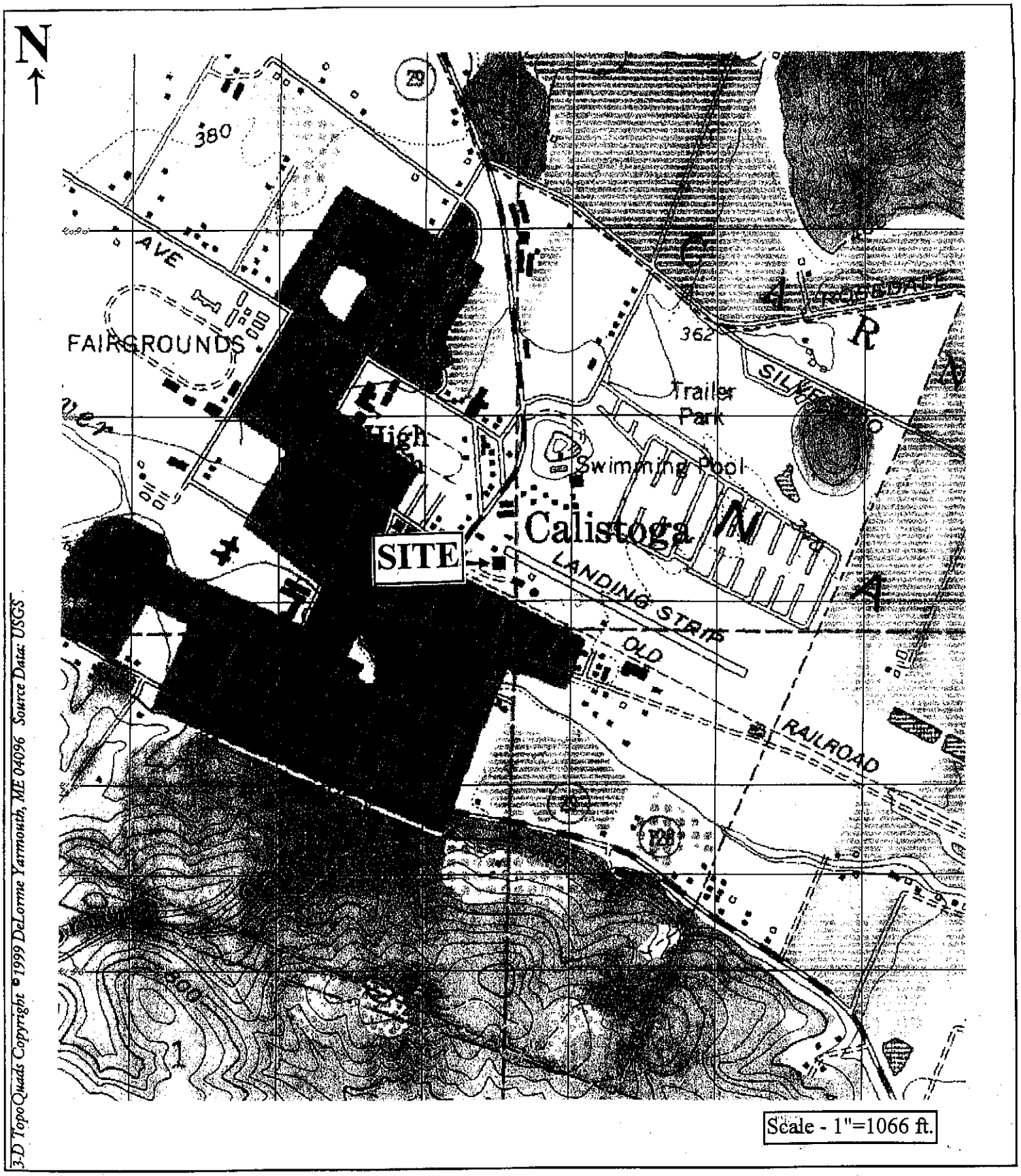
Attachments: Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Map, 18 April 2005

Table 1 - Groundwater Elevation Data
Table 2 - Monitoring Well Groundwater Sample Analytical Results
Table 3 - Water Well Groundwater Sample Analytical Results

Appendix A - Groundwater Field Logs
Appendix B - Analytical Laboratory Report

cc: Mr. Joel Coffman, Napa County Department of Environmental Management

0358\QMR Apr05

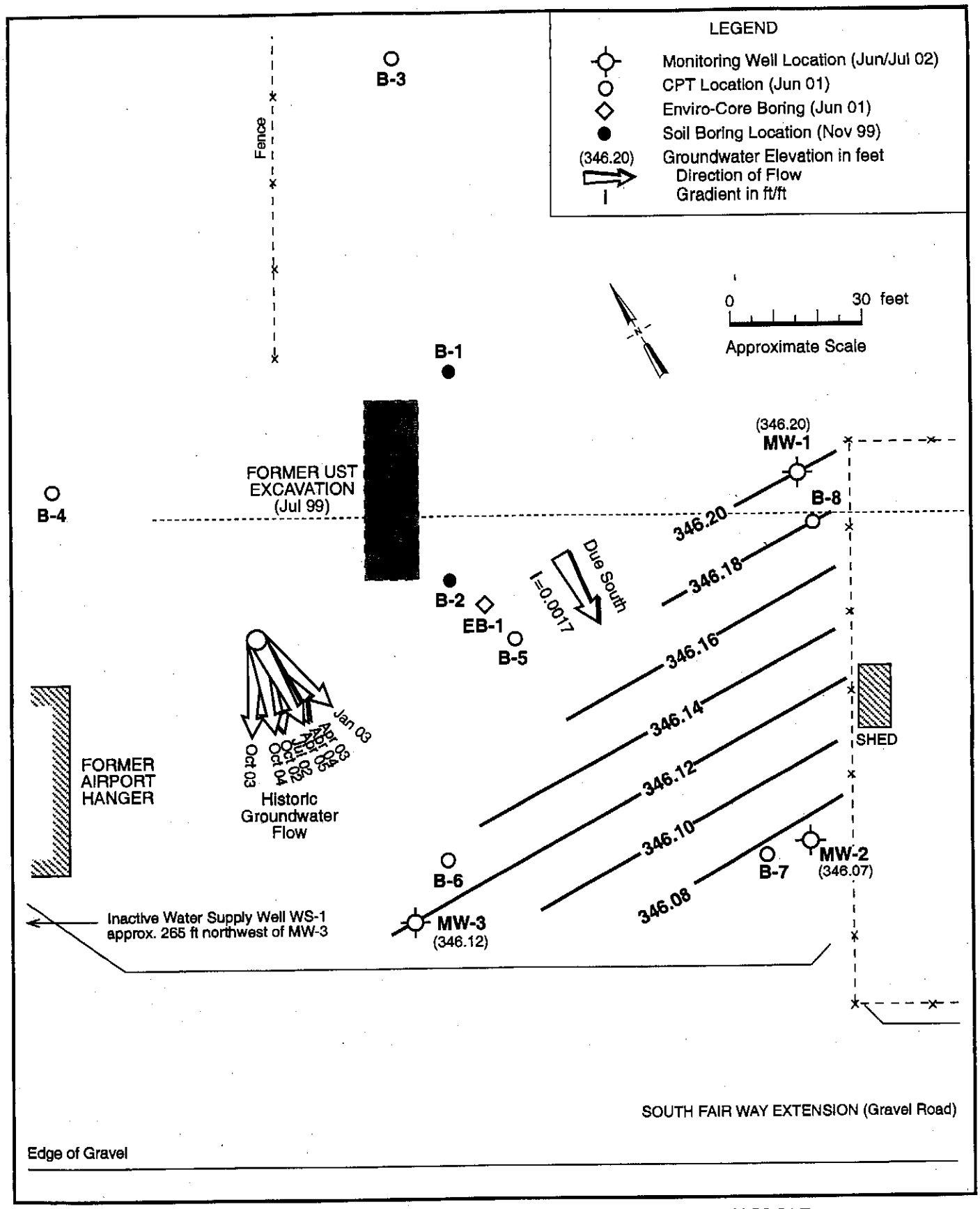


EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Site Location Map
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
1

Job number 0358,001.99 Reviewed by Date February 2001 Revised date



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GROUNDWATER ELEVATION MAP,
18 April 2005
Former Calistoga Gliderport
1546 Lincoln Avenue
Calistoga, California

FIGURE
2

(TRACE #270/RG/02May05)

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0358,001.99	EC&A, E.J. VandenBosch	February 2001	May 2005	1 of 1

Table 1. Groundwater Elevation Data
1546 Lincoln Avenue, Calistoga, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	07/23/02	350.69	7.16	343.53
MW-2	07/23/02	350.50	7.16	343.34
MW-3	07/23/02	351.60	8.24	343.36
Gradient: S14°W at 0.0023 ft/ft				
MW-1	10/11/02	350.69	7.63	343.06
MW-2	10/11/02	350.50	7.67	342.83
MW-3	10/11/02	351.60	8.75	342.85
Gradient: S14°W at 0.0029 ft/ft				
MW-1	01/02/03	350.69	3.75	346.94
MW-2	01/02/03	350.50	3.66	346.84
MW-3	01/02/03	351.60	4.66	346.94
Gradient: S19°W at 0.0018 ft/ft				
MW-1	04/09/03	350.69	4.55	346.14
MW-2	04/09/03	350.50	4.53	345.97
MW-3	04/09/03	351.60	5.55	346.05
Gradient: S03°E at 0.0024 ft/ft				
MW-1	10/20/03	350.69	7.17	343.52
MW-2	10/20/03	350.50	7.16	343.34
MW-3	10/20/03	351.60	8.31	343.29
Gradient: S34°W at 0.0022 ft/ft				
MW-1	04/16/04	350.69	5.08	345.61
MW-2	04/16/04	350.50	5.02	345.48
MW-3	04/16/04	351.60	6.07	345.53
Gradient: S02°E at 0.0018 ft/ft				

Table 1. Groundwater Elevation Data
1546 Lincoln Avenue, Calistoga, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	10/12/04	350.69	7.59	343.10
MW-2	10/12/04	350.50	7.63	342.87
MW-3	10/12/04	351.60	8.71	342.89
Gradient:S20°W at 0.003 ft/ft				
MW-1	**04/18/05**	**350.69**	**4.49**	**346.20**
MW-2	**04/18/05**	**350.50**	**4.43**	**346.07**
MW-3	**04/18/05**	**351.60**	**5.48**	**346.12**
Gradient: Due south at 0.0017 ft/ft				

TOC: Top of casing elevation measured relative to mean sea level (msl)
DTW: Depth to water from TOC

Table 2. Monitoring Well Groundwater Sample Analytical Results
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	DTW ft bgs	TPHg µg/l	TPHg (av gas) µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	EDB µg/l	1,2-DCA µg/l
MW-1 †	07/23/02	7.16	NA	ND<50	ND<0.5	0.92	ND<0.5	1.9	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/11/02	7.63	ND<50	ND<50	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	NA	NA
	01/02/03	3.75	NA	ND<50	ND<0.5	0.53	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/09/03	4.55	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/20/03	7.17	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/16/04	5.08	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	**4.49**	**ND<50**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<5.0 ***	**ND<0.5**	**ND<0.5**
MW-2	07/23/02	7.16	NA	ND<50	ND<0.5	0.84	ND<0.5	2.0	49	ND<5.0 *	ND<0.5	ND<0.5
	10/11/02	7.67	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	66	ND<10 *	NA	NA
	01/02/03	3.66	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<5.0 *	ND<0.5	ND<0.5
	04/09/03	4.53	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	ND<12 *	ND<1.2	ND<1.2
	10/20/03	7.16	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	54	ND<10 *	ND<1.0	ND<1.0
	04/16/04	5.02	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46	5.1 *	ND<0.5	ND<0.5
	10/12/04 [1]	7.63	~~200~~	~~87~~	~~4.9~~	~~29~~	~~8.0~~	~~30~~	~~22~~	~~ND<5.0 *~~	~~ND<0.5~~	~~ND<0.5~~
	10/28/04 [2]	7.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	31	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	**4.43**	**ND<50**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**33**	**ND<5.0***	**ND<0.5**	**ND<0.5**
MW-3 †	07/23/02	8.24	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	1.4	0.83	5.1 *	ND<0.5	ND<0.5
	10/11/02	8.75	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<5.0 *	NA	NA
	01/02/03	4.66	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5

Table 2. Monitoring Well Groundwater Sample Analytical Results
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	DTW ft bgs	TPHg µg/l	TPHg (av gas) µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	EDB µg/l	1,2-DCA µg/l
MW-3 † cont.	04/09/03	5.55	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	10/20/03	8.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<5.0	ND<0.5	ND<0.5
	04/16/04	6.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 *	ND<0.5	ND<0.5
	04/18/05	**5.48**	**ND<50**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<5.0 ***	**ND<0.5**	**ND<0.5**

DTW: Depth to water below top of casing in feet below ground surface (ft bgs)
TPHg: Total petroleum hydrocarbons as gasoline
(av gas): TPHg as aviation gas
MTBE: Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
TBA: T-butyl alcohol
EDB: Ethylene dibromide
1,2-DCA: 1,2-dichloroethane
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
NA: Not analyzed
NS: Not sampled
†: Wells MW-1 and MW-3 are sampled annually during seasonally high groundwater levels.
*: Gasoline oxygenates other than MTBE were not detected above their respective reporting limits
1: Because of positive detections for TPHg, TPH(av gas) and BTEX in the samples collected from MW-2 on 10/12/04, a confirmation sample was collected on 10/28/04. Prior to the October 12, 2004 sampling event, these analytes have not been detected in MW-2.
2: Confirmation sample

Table 3. Water Well Groundwater Sample Analytical Results
1546 Lincoln Avenue, Calistoga, California

Sample ID	Sample Date	TPHg µg/l	TPHg (av gas) µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE* µg/l	EDB µg/l	1,2-DCA µg/l
WS-1	06/26/01	ND<50	NA	89 [g]	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<1.0
	07/25/02 [1]	61 [m,h]	NA	16,000 [e,h]	ND	ND	0.57	0.80	ND<2.5	ND<2.5	ND<2.5
	10/11/02	ND<50	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA
	01/02/03[2]	NA	87 [m]	19,000 [b,g] **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/09/03[2]	68	ND<50	770 [g,b] **	ND<0.5	0.72	0.54	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/20/03	ND<50	ND<50	74 [b] **	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/16/04	ND<50	ND<50	ND<50 **	ND<0.5	5.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/12/04	NS<50	ND<50	ND<50 **	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/18/05	**ND<50**	**ND<50**	**ND<50 ****	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**

TPHg: Total petroleum hydrocarbons as gasoline
(av gas): TPHg as aviation gas
TPHd: Total petroleum hydrocarbons as diesel
MTBE: Methyl tert-butyl ether; analyzed by EPA Method 8260 unless noted otherwise
EDB: Ethylene dibromide
1,2-DCA: 1,2-dichloroethane
µg/l: Micrograms per liter
ND: Not detected above the respective reporting limit
NA: Not analyzed
NS: Not sampled
b: Diesel range compounds are significant; no recognizable pattern
e: Unknown medium boiling point pattern that does not appear to be derived from diesel (corn oil?)
g: Oil range compounds are significant
h: Lighter than water immiscible sheen/product is present
m: No recognizable pattern
*: Other gasoline oxygenates were not detected above their respective reporting limits, with the exception of 1600 µg/l ethanol for the sample collected on July 25, 2002
**: TPHd analysis with silica gel clean-up
1: Approximately 2.5 gallons of vegetable oil and pieces of cooked food were removed from the top of the water in this well. A fuel fingerprint was run on the sample of the oil product collected from WS-1 by EPA Method 8015m. MAI described the oil product sample from WS-1 as having a similar pattern to various vegetable oils; the chromatogram of the oil product is a close match to the corn oil standard.
2: MAI described the TPHd results as having a similar pattern to various vegetable oils; the chromatogram is a close match to the corn oil standard.

Appendix A

Groundwater Field Logs

DAILY FIELD RECORD

Project and Task Number: 0358	Date: 4/18/05
Project Name: GLIDER PORT	Field Activity: Semi ANNUAL
Location: 1546 LINCOLN	Weather:
Time of OVM Calibration:	

Name	Company	Time In	Time Out
R. Johnson	EDD & A		

DRUM ID	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION
2	H_2O	

TIME	
10:30	Depart from office ORDER - 1, 3, 2
11:30	arrive on site, locate wells, open wells
1:00	Take Pre DTW
1:15	Begin Purging wells in order
2:30	Hand bail WS-1
3:00	Begin Sampling wells in order
4:00	close wells, lock wells, clean up sight, return to office
	Pre DTW
	WS-1-3.78
	MW-3-5.48
	MW-2-4.43
	MW-1-4.44

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ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0358	Field point name: MW-1
Global ID: T0605500029	Well depth from TOC: 20'
Project location: 1546 Lincoln, Calistoga, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 4/18/05	Product level from TOC: ND
Time: 11:30	Water level from TOC: 4.49
Recorded by: R. Johnson	Screened interval: 5'-20'
Purge time (duration):	Well elevation (TOC): 350.64'

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: ?

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 15.51	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.6	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 7.9	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
	7.26	3839	101	1 / 2.6	No odor - No sheen - Low turb
	7.31	3657	102	2 / 5.2	
	7.31	3595	104	3 / 7.9	
				/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 4.00	
Appearance of sample:	Time: 3:30

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40 Type: Submersible	GPM: 1 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse	

Sample analysis:	☒ TPHg	TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☒ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

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ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0358	Field point name: MW-2
Global ID: T0605500029	Well depth from TOC: 20'
Project location: 1546 Lincoln, Calistoga, CA	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 4/18/05	Product level from TOC: ND
Time: 11:30	Water level from TOC: 4.43
Recorded by: R. Johnson	Screened interval: 5'-20''
Purge time (duration):	Well elevation (TOC): 360.50'

WEATHER

Wind: 0-5 mph	Precip. in last 5 days:

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 15.57	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.6	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 7.8	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
	7.15	4157	90.2	1 / 2.6	Low turb - No odor - No sheen
	7.24	3685	89.2	2 / 5.2	
	7.28	3549	89.4	3 / 7.8	
				/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: 4
Water level before sampling below TOC: 4.15	
Appearance of sample:	Time: 3:50

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☒ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

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FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0358	Field point name: MW-3
Global ID: T0605500029	Well depth from TOC: 20'
Project location: 1546 Lincoln, Calistoga, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 4/18/05	Product level from TOC: ND
Time: 11:30	Water level from TOC: 5.48
Recorded by: R. Johnson	Screened interval: 5'-20'
Purge time (duration):	Well elevation (TOC): 351.60'

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: 2

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 14.52	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.5	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 7.5	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
	7.41	1460	76.8	1 / 2.5	Low turb - No sheen - No odor
	7.46	1323	77.3	2 / 5.0	
	7.45	1318	77.4	3 / 7.5	
				/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 4.87	
Appearance of sample:	Time: 3:40

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☒ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

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FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0358	Field point name: US-1
Global ID: T0605500029	Well depth from TOC:
Project location: 1546 Lincoln, Calistoga, CA	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☒ Other: 5
Date: 4/18/05	Product level from TOC: ND
Time: 11:30	Water level from TOC: 5.78
Recorded by: R. Johnson	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: ?

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☒ 5 " well = gal/ft	Total gallons removed: 10	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	Low turb - No odor - No sheen
						2/	
						3/	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: 4
Water level before sampling below TOC: 4.57	
Appearance of sample:	Time: 3:15

☐ Bailer:	Type:	GPM:	☒ Pump: ES40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☒ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☒ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

Appendix B

Laboratory Analytical Report

RECEIVED
MAY 0 2 2005
BY:

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0358; Glider Port 1549 Lincoln Calistor, Ca	Date Sampled:	04/18/05
320 Professional Center Ste. 215		Date Received:	04/19/05
Rohnert Park, CA 94928	Client Contact: Ronen Johnson	Date Reported:	04/26/05
	Client P.O.:	Date Completed:	04/26/05

WorkOrder: 0504292

April 26, 2005

Dear Ronen:

Enclosed are:

1). the results of 4 analyzed samples from your **#0358; Glider Port 1549 Lincoln Calistor, Ca project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0358; Glider Port 1549 Lincoln Calistor, Ca	Date Sampled: 04/18/05
		Date Received: 04/19/05
	Client Contact: Ronen Johnson	Date Extracted: 04/21/05-04/22/05
	Client P.O.:	Date Analyzed: 04/21/05-04/22/05

Gasoline Range (C6-C12) & Aviation Gas Range (C6-C8) Volatile Hydrocarbons with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Cm Work Order: 0504292

Lab ID	0504292-001A	0504292-002A	0504292-003A	0504292-004A	Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3	WS-1		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	ND	ND	ND	ND	NA	50
TPH(av-gas)	ND	ND	ND	ND	NA	50
MTBE	---	---	---	---	NA	5.0
Benzene	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	118	115	115	119		
Comments						

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0358; Glider Port 1549 Lincoln Calistor, Ca	Date Sampled: 04/18/05
		Date Received: 04/19/05
	Client Contact: Ronen Johnson	Date Extracted: 04/21/05
	Client P.O.:	Date Analyzed: 04/22/05

Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0504292

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0504292-004C	WS-1	W	ND	1	100

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

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Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0358; Glider Port 1549 Lincoln Calistor, Ca	Date Sampled: 04/18/05
		Date Received: 04/19/05
	Client Contact: Ronen Johnson	Date Extracted: 04/23/05
	Client P.O.:	Date Analyzed: 04/23/05

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0504292

Lab ID	0504292-001B	0504292-002B	0504292-003B	0504292-004B	Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3	WS-1		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethanol	ND	ND	ND	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methanol	ND	ND	ND	ND	NA	500
Methyl-t-butyl ether (MTBE)	ND	33	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	110	110	109	110		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0504292

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 15936** **Spiked Sample ID: 0504303-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)[£]	ND	60	105	98.9	5.49	100	96.8	3.33	70 - 130	70 - 130
MTBE	ND	10	97.5	98.5	1.05	95.2	97.2	2.08	70 - 130	70 - 130
Benzene	ND	10	109	110	1.06	101	103	1.79	70 - 130	70 - 130
Toluene	ND	10	103	105	1.71	96.1	97.1	1.05	70 - 130	70 - 130
Ethylbenzene	ND	10	103	107	3.87	98.9	100	1.31	70 - 130	70 - 130
Xylenes	ND	30	90.7	91	0.367	86.7	90	3.77	70 - 130	70 - 130
%SS:	110	10	113	112	0.312	109	108	0.981	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 15936 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504292-001A	4/18/05 3:30 PM	4/22/05	4/22/05 5:25 AM	0504292-002A	4/18/05 3:50 PM	4/21/05	4/21/05 6:31 AM
0504292-003A	4/18/05 3:40 PM	4/21/05	4/21/05 7:01 AM	0504292-004A	4/18/05 3:15 PM	4/21/05	4/21/05 7:30 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0504292

EPA Method: SW8015C **Extraction: SW3510C** **BatchID: 15938** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	97	97.2	0.185	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	85	85	0	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 15938 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504292-004C	4/18/05 3:15 PM	4/21/05	4/22/05 2:08 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentretions of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0504292

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 15919** **Spiked Sample ID: 0504279-015C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	98.2	98.8	0.622	94	95.8	1.84	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	97.8	98.6	0.815	87.7	89.7	2.24	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	90.2	90.9	0.835	84.7	86.6	2.31	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	113	116	2.58	114	114	0	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	105	106	1.25	102	104	2.00	70 - 130	70 - 130
Ethanol	ND	500	87.3	105	18.8	102	105	2.39	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	99	99.9	0.884	92.2	95	2.95	70 - 130	70 - 130
Methanol	ND	2500	93	96.6	3.79	101	101	0	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	102	104	2.53	96.8	97.3	0.583	70 - 130	70 - 130
%SS1:	111	10	102	102	0	96	97	1.03	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 15919 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504292-001B	4/18/05 3:30 PM	4/23/05	4/23/05 8:55 PM	0504292-002B	4/18/05 3:50 PM	4/23/05	4/23/05 9:37 PM
0504292-003B	4/18/05 3:40 PM	4/23/05	4/23/05 10:20 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries end / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0504292

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 15937** **Spiked Sample ID: 0504300-013A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	104	102	1.70	100	103	3.16	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	109	106	2.12	104	95	9.40	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	99.8	95.5	4.37	87.4	88.4	1.13	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	119	116	2.82	119	118	0.624	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	111	107	3.66	106	112	5.76	70 - 130	70 - 130
Ethanol	ND	500	109	114	4.22	103	111	7.18	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	105	102	2.71	97.1	102	5.21	70 - 130	70 - 130
Methanol	ND	2500	102	100	1.72	103	99.3	3.83	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	110	107	2.59	104	104	0	70 - 130	70 - 130
%SS1:	107	10	104	103	0.774	99	95	3.61	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 15937 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504292-004B	4/18/05 3:15 PM	4/23/05	4/23/05 11:03 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike end matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0504292 **ClientID: ECAR**

Report to:
Ronen Johnson
Edd Clark & Associates, Inc.
320 Professional Center Ste. 215
Rohnert Park, CA 94928

TEL: (707) 792-9500
FAX: (707) 792-9504
ProjectNo: #0358; Glider Port 1549 Lincoln Calistor,
PO:

Bill to:
Accounts Payable
Edd Clark & Associates, Inc.
320 Professional Center Ste.215
Rohnert Park, CA 94928

Requested TAT: 5 days

Date Received: 04/19/2005
Date Printed: 04/21/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0504292-001	MW-1	Water	4/18/05 3:30:00 PM	☐	B	A	B												
0504292-002	MW-2	Water	4/18/05 3:50:00 PM	☐	B	A													
0504292-003	MW-3	Water	4/18/05 3:40:00 PM	☐	B	A													
0504292-004	WS-1	Water	4/18/05 3:15:00 PM	☐	B	A		C											

Test Legend:

1	9-OXYS_W	2	G-MBTEX_W	3	PREDF REPORT	4	TPH(D)WSG_W	5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Rosa Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

ECAK -050422

Edd Clark & Associates, Inc.
Environmental Consultants

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker: Yes ☒ No ☐ Initials

Samplers Signature:

EC&A job # 0358

Global I.D. # T0605500029

Facility Name & Location: Glider Port 1549 Lincoln Calistoga, CA

	Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPHg (AV) BTEX	7 oxygenates + Pb scavengers	TPHd silica gel cleaned 4/21 pDe-fyc			Remarks
+	MW-1	4/18	3:30			W	3	X	X				
(+)	MW-2	↓	3:50			↓	3	X	X				
(+)	MW-3	↓	3:40			↓	3	X	X				
(+)	WS-1	↓	3:15			↓	3/2	X	X	X			

ICE/T° ✓ ✓
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ✓ CONTAINERS
DECHLORINATED IN LAB PRESERVED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Ronen Johnson	4/19/05	1010			4/19/05	1130	
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

COUNTY *of* NAPA

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

STEVEN LEDERER
Director

CHRISTINE M. SECHELI, R.E.H.S.
Assistant Director

August 30, 2007

PATRICIA MERCHANT
1712 LINCOLN AVE
CALISTOGA CA 94515

Subject: **Remedial Action Completion Certification**
Former Calistoga Gliderport Site
1546 Lincoln Avenue
Calistoga, California
APN 011-340-016-000
Napa County Site LOP-345

Dear Ms. Merchant:

This letter confirms the completion of site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivision (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Steven Lederer
Director, Napa County Department of Environmental Management

cc: Kent Aue, SFB-RWQCB, 1515 Clay Street, Suite 1400, Oakland, CA 94612
David Charter SWRCB Div of Clean Water Programs Box 944212 Sacramento 94244
Richard Ely, Edd Clark & Associates, P.O. Box 3039, Rohnert Park, CA 94927-3039
Bill McBride, City of Calistoga, 414 Washington Street, Calistoga, CA 94515
John Calomiris, Edd Clark & Associates, P.O. Box 3039, Rohnert Park, CA 94927-3039
Napa County Tax Assessor

LOP 345 SWM 200

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

Date: Dec 6, 2006

I. Agency Information

Agency name: Napa County Department of Environmental Management
Address: 1195 3rd Street, Room 101, Napa Ca 94559 (707) 253-4269
Responsible staff person: Joel Coffman
Title:

II. Case Information

Site Name: CALISTOGA GLIDERPORT
Site Address: 1546 Lincoln Ave; Calistoga 94515
RB LUSTIS Case No: Local Case No: NAPA0345 LOP Case No: NAPA0345
URF filing date: 08/19/99 SWEEPS No: 28-000-000345

Responsible Parties
John And Patricia Merchant 2136 Pierce Street San Francisco CA 94115 4

Tank No	Gallons	Contents	Type of Closure	Date
1	10000	aviation fue	removed	071999
2	3000	other	removed	010990
3	5000	other	removed	011090

III. Release and Site Characterization Information

Cause and type of release:
unknown
Site characterization complete? Yes Approved by Napa Co: 10/04/06
Monitoring Wells Installed? Yes Number: 4
Proper Screened Interval? Yes
Ground water depth bgs: highest: 2.4 lowest: 8.7 Flow Dir: SE
Most Sensitive Use:
commercial
Are drinking water wells affected? No
Aquifer name:
Is surface water affected? No Nearest affected SW name:

Off-site beneficial use impacts (addresses/locations):
none
Report(s) on file? Yes Where is report(s) filed?
Napa County Department of Environmental Management

Treatment and Disposal of Affected Material

Amount	Action	Date
Tank		
6 tanks	disposal/Erickson, Richmond CA	07/19/99
Piping		
	(CASE REOPENED FOR ADD. TANK	08/25/00
Free Product		
none	10,000 gallon UST for av gas	
Soil		
340 yds	aerated for re-use on site includes	
Ground Water		
	soil from former UST removal in 1990	
Barrels		

NAPA0345

Case Closure Summary
Leaking Underground Fuel Tank Program

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations Before & After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppm) Before	Water (ppm) After
TPH (Gas)	2.7		0.330	<0.050
TPH (Diesel)				
Benzene	0.033		0.0012	ND
Toluene	0.056		0.0022	ND
Ethylbenzene	0.055		ND	ND
Xylenes	0.17		0.0017	ND
MTBE			.2000	.0150
Oil & Grease				
Total Lead	12			
EDB; 1,2-DCA	ND		ND	
TPH- Av gas			0.330	ND

Comments: The depth of excavation for removal of the 10,000 gallon Av-gas tank was approximately 12 feet deep. Additional excavation of the tank pit was not performed.

IV. Closure

Does completed corrective action protect existing beneficial uses per the Regional Board Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site management requirements:

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommissioned? Yes Number Decommissioned: 4

Number Retained: 0

List enforcement actions taken:

List enforcement actions rescinded:

V. Local Agency Representative Data

Name: Steven Lederer Title: Director

Signature: [signature] Date: 12/6/06

VI. RWQCB Notification

Date Submitted to RB: 12/6/06 RB Response: Concur

RWQCB Staff Name: Mary Rose Cleveland Title: Eng. Geol. Date: 12/6

VII. Additional Comments, Data, Etc.

Site re-opened in 2000 after av gas tank removed. Very low levels of hydrocarbons and MTBE detected in the subsurface. The site is located in the Calistoga geothermal field; shallow groundwater temps. range from about 105 degrees to 77 degrees F. Deep water is very hot. It is unlikely that MTBE-impacted groundwater would impact sensitive receptors downgradient or south of the site.

LOP 345 SUM 200

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

Date: Dec 6, 2006

I. Agency Information

Agency name: Napa County Department of Environmental Management
Address: 1195 3rd Street, Room 101, Napa Ca 94559 (707) 253-4269
Responsible staff person: Joel Coffman
Title:

II. Case Information

Site Name: CALISTOGA GLIDERPORT
Site Address: 1546 Lincoln Ave; Calistoga 94515
RB LUSTIS Case No: Local Case No: NAPA0345 LOP Case No: NAPA0345
URF filing date: 08/19/99 SWEEPS No: 28-000-000345

Responsible Parties
John And Patricia Merchant 2136 Pierce Street San Francisco CA 94115 4

Tank No	Gallons	Contents	Type of Closure	Date
1	10000	aviation fue	removed	071999
2	3000	other	removed	010990
3	5000	other	removed	011090

III. Release and Site Characterization Information

Cause and type of release:
unknown
Site characterization complete? Yes Approved by Napa Co: 10/04/06
Monitoring Wells Installed? Yes Number: 4
Proper Screened Interval? Yes
Ground water depth bgs: highest: 2.4 lowest: 8.7 Flow Dir: SE
Most Sensitive Use:
commercial
Are drinking water wells affected? No
Aquifer name:
Is surface water affected? No Nearest affected SW name:

Off-site beneficial use impacts (addresses/locations):
none
Report(s) on file? Yes Where is report(s) filed?
Napa County Department of Environmental Management

Treatment and Disposal of Affected Material

Amount	Action	Date
Tank		
6 tanks	disposal/Erickson, Richmond CA	07/19/99
Piping		
	(CASE REOPENED FOR ADD. TANK	08/25/00
Free Product		
none	10,000 gallon UST for av gas	
Soil		
340 yds	aerated for re-use on site includes	
Ground Water		
	soil from former UST removal in 1990	
Barrels		

NAPA0345

Case Closure Summary
Leaking Underground Fuel Tank Program

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations Before & After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppm) Before	Water (ppm) After
TPH (Gas)	2.7		0.330	<0.050
TPH (Diesel)				
Benzene	0.033		0.0012	ND
Toluene	0.056		0.0022	ND
Ethylbenzene	0.055		ND	ND
Xylenes	0.17		0.0017	ND
MTBE			.2000	.0150
Oil & Grease				
Total Lead	12			
EDB; 1,2-DCA	ND		ND	
TPH- Av gas			0.330	ND

Comments: The depth of excavation for removal of the 10,000 gallon Av-gas tank was approximately 12 feet deep. Additional excavation of the tank pit was not performed.

IV. Closure

Does completed corrective action protect existing beneficial uses per the Regional Board Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site management requirements:

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommissioned? Yes Number Decommissioned: 4

Number Retained: 0

List enforcement actions taken:

List enforcement actions rescinded:

V. Local Agency Representative Data

Name: Steven Lederer Title: Director

Signature: [signature] Date: 12/6/06

VI. RWQCB Notification

Date Submitted to RB: 12/6/06 RB Response: Concur

RWQCB Staff Name: [signature] Title: Eng. Geol. Date: 12/6

VII. Additional Comments, Data, Etc.

Site re-opened in 2000 after av gas tank removed. Very low levels of hydrocarbons and MTBE detected in the subsurface. The site is located in the Calistoga geothermal field; shallow groundwater temps. range from about 105 degrees to 77 degrees F. Deep water is very hot. It is unlikely that MTBE-impacted groundwater would impact sensitive receptors downgradient or south of the site.

APPENDIX E

QUALIFICATIONS

Michael Audibert, REA, CMI – Associate Consultant

MPA, Public Administration, San Francisco State University, 2000
BS, Business Administration, University of Vermont, 1992
ASTM Phase I Environmental Site Assessments (ESAs) & Phase II ESAs (ASTM E 1527 & ASTM E 1903) Training, 2003 & 2006
EDR Vapor Intrusion Assessment (VI) Training, 2008
Registered Environmental Assessor (REA)
Certified Mold Inspector (CMI) (Environmental Solutions Association), 2005

Mr. Audibert has been conducting Phase I and II Environmental Site Assessments (ESAs) of commercial, industrial, and multi-family residential properties throughout the United States since 2001. He has also managed regulatory compliance evaluation programs on a nationwide basis. With a background in business management and public administration, Mr. Audibert brought these skills into the environmental due diligence and health & safety arenas with strengths in project management, real estate transaction due diligence, and public sector agency correspondence. Mr. Audibert also has extensive experience managing various industrial hygiene projects, including asbestos surveys, mold assessments, radon testing, lead-based paint testing, lead-in-drinking-water testing, and other indoor air quality assessments.

Project experience for Mr. Audibert includes:

- ***Former Steel Foundry, Oakland, CA*** – Mr. Michael Audibert performed a Phase I Environmental Site Assessment (ESA) for a former steel and brass foundry to be converted into live/work loft apartments. The City of Oakland required that a comprehensive Phase I ESA be conducted for this property for foundry closure purposes. This project involved extensive agency and historical research, as well as determining what areas of the former foundry would be considered "at risk zones" for subsurface contamination.
- ***Gasoline Service Station Portfolios, CA –*** Mr. Michael Audibert has performed Phase I Environmental Site Assessments (ESAs) for existing gas stations developed on the site of former gas stations, as well as several historical and current leaking underground storage tank (LUST) sites, which involve an extensive historical use investigation and agency records review to determine the status of current and past underground storage tanks (USTs).

- ***Hotel/Hospitality Portfolios, Western U.S. –*** Mr. Audibert has performed Phase I ESAs on several hotel/hospitality properties, ranging from three-story buildings in rural areas to multi-floor high rise hotels in major domestic and international metropolitan cities.
- ***Former Union Hall, San Francisco, CA –*** Mr. Audibert performed a Phase I ESA for a former union hall to be developed into a high rise cosmopolitan apartment building. Because of the age of the buildings to be demolished, a comprehensive asbestos survey and ensuing operations and maintenance program for removal and disposal of asbestos was recommended and implemented.
- ***Former Printers, San Francisco, CA –*** Mr. Audibert performed a Phase I ESA for a former printing operation. The property had a long history of high-risk uses, including various manufacturing, automobile repair, and printing operations. A comprehensive agency records investigation and review was conducted.

Brie Solaegui – Client Manager

B.A. – Geography, University of California, Berkeley

EPA Accredited Asbestos Inspector (32106 IR)

Ms. Solaegui has been in the environmental service industry since 2006 and provides project management to ensure ASTM compliance and satisfaction of client requirements for Phase I Environmental Site Assessments, Environmental Transaction Screens, Environmental Transaction Analyses, Regulatory Database Reviews, Historical Records Reviews and Property Condition Assessments. She has successfully completed assessments on a variety of residential, commercial, and complex industrial sites. Ms. Solaegui is accustomed to all aspects of Due Diligence Property Assessments and the needs and requirements of a variety of reporting standards, including ASTM, EPA's All Appropriate Inquiry (AAI), Freddie Mac, Fannie Mae, HUD, and customized client formats.

Project experience for Ms. Solaegui includes:

- Phase I Environmental Site Assessments
- Property Condition Assessments
- Environmental Transaction Screens
- Environmental Transaction Analyses
- Regulatory Database Reviews
- Historical Records Reviews
- Project Coordination and Setup

As a Client Manager, Ms. Solaegui provides senior author services, client management, and business development. Additional responsibilities include managing projects, providing quality control of work products, and mentorship of staff.

In addition, prior to joining the environmental service industry, Ms. Solaegui spent four years studying a broad range of environmental disciplines, including: natural resource management, environmental planning and environmental policy.